American Dynamics

VideoEdge 6.0 Camera Handler Release Notes NVR_Handler_Pack-6.0.0.400

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NVR_Handler_Pack-6.0.0.400

Johnson Controls

Contents

Newly supported models

Handler packs

In the latest release, the NVR_Handler_Pack-6.0.0.400 was updated with the newly supported models.

Note:

- MD = Motion Detection
- PD = Perimeter Defender v2.5.2
- LG = Loitering Guard
- OC = Object Classification

Table 1: SightLogix ONVIF supported cameras

Model	Codec Supported	Audio	I/O	PTZ Supported	VideoEdge Versions Supported
HD236-220	H264	No	3/3	No	5.9 and higher

Table 2: Newly supported Illustra cameras

Model	Codec supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
Illustra Flex 4							
IFS02-D12-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS02-D12-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS04-D12-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS04-D12-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS08-D13-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0

Table 2: Newly supported Illustra cameras

Model	Codec supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
IFS08-D13-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS02-P07-ATA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS02-P07-IIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS02-P07-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-ATA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-IIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
Illustra Standard Gen 3							
ISIN-B02M031-N	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1

Table 2: Newly supported Illustra cameras

Model	Codec supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
ISIN-B05M031-N	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
Illustra Essentials Z							
ADZ-D12-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.0

Table 3: Newly Supported Axis Models

Model	Codec Support	Audio	I/O	PTZ	Edge Function	VideoEdge Supported
Fixed Dome Cameras						
M4216-LV	H.265, H.264, MJPEG	No	-	Digital	MD	5.6 - 6.0
M4216-V	H.265, H.264, MJPEG	No	-	Digital	MD	5.6 - 6.0
P3245-LVE-3	H.265, H.264, MJPEG	Yes	1/1	No	MD	5.6 - 6.0
P3727-PLE	H.265, H.264, MJPEG	No	-	No	MD	5.6 - 6.0
Q3536-LVE	H.265, H.264, MJPEG	Yes	1/1	No	MD	5.6 - 6.0
P3265-LV	H.265, H.264, MJPEG	Yes	1/1	Digital	MD, OC	5.6 - 6.0
Fixed Box Camera						
Q1656-LE	H.265, H.264, MJPEG	Yes	2/2	No	MD	5.6 - 6.0

Table 3: Newly Supported Axis Models

Model	Codec Support	Audio	I/O	PTZ	Edge Function	VideoEdge Supported
Fixed Bullet Camera						
P1455-LE-3	H.265, H.264, MJPEG	Yes	1/1	No	MD	5.6 - 6.0
PTZ Cameras						
Q6078-E	H.265, H.264, MJPEG	No	-	Yes	MD, LG	5.6 - 6.0
Panoramic Camera						
P3727-PLE	H.265, H.264, MJPEG	Yes	-	Yes	MD	5.6 - 6.0
P3818-PVE	H.265, H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.6 - 6.0
M4308-PLE	H.265, H.264, MJPEG	Yes	1/1	No	MD	5.6 - 6.0
Q3819-PVE	H.265, H.264, MJPEG	Yes	1/1	Yes	MD	5.6 - 6.0
Explosion Protected Cameras						
D201-S XPT Q6075	H.265, H.264, MJPEG	No	0/0	No	LG	5.6 - 6.0
Canon Network Camera						
VB-H45	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0
VB-M44	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0
VB-M50B	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0
VB-S30D Mk II	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S30VE	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S31D Mk II	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S910F	H.264, MJPEG	Yes	1/1	No	-	5.6 - 6.0
P3717-PLE	H.264, MJPEG	Yes	0/0	Yes		5.6 - 6.0
Encoders						
M7116	H.265, H.264, MJPEG	-	-	-	-	5.6 - 6.0
291 1U	-	-	-	-	-	5.6 - 6.0
Q7920	-	-	-	-	-	5.6 - 6.0

Table 3: Newly Supported Axis Models

Model	Codec Support	Audio	I/O	PTZ	Edge Function	VideoEdge Supported
Thermal Camera						
Q1951-E	H.265,H.264, MJPEG	Yes	1/1	No	MD,LG	5.6 - 6.0

Table 4: Newly supported Hanwha models

Model	Codec support	Audio	I/O	PTZ	Edge Motion Detection Event	Edge Motion Detection Metadata	VideoEdge version supported
Q-Series							
QNP-6250	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6320	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6320 H	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6250 H	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6320 R	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6250 R	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6230 RH	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6230	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6230 H	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0

Purpose

This document provides a detailed list of supported manufacturers and manufacturers' camera lines integrated and supported by the American Dynamics VideoEdge Network Video Recorder version 6.0 and the VideoEdge Camera Handler version 6.0.

Table 5: Cameras and Encoders supported and available with current version 6.0

American Dynamics Encoders and Cameras Illustra Cameras ACTi Corporation Cameras Arecont Vision Cameras AXIS Cameras and Encoders Bosch Cameras CBC Cameras Dahua Cameras exacqVision Encoders	FLIR Hikvision ONVIF Panasonic Encoders and Cameras Pelco Samsung Encoders and Cameras SONY Encoders and Cameras Vivotek Encoders and Cameras Holis JSE, JSA, JSV Series

Note: You can upgrade your VideoEdge Camera Handler version at http://www.americandynamics.net. Refer to the *VideoEdge Installation and User Guide* to configure storage.

CAUTION: VideoEdge devices can require a tremendous amount of storage space depending on the number of cameras, codec, resolution, frame rates, recording modes, and the duration for which you wish to preserve video recordings. At the outset of your use of the VideoEdge system, you need to have storage configured to record data.

Continual support

H.265 support

H.265 uses a more efficient encoding, saving more network bandwidth and storage. The higher efficiency encoding requires more CPU to decode or transcode than H.264. This release includes recording and streaming of native streams and is only supported on victor client.

Table 6: H.265 firmware compatibility

Model	Firmware version
Samsung/Hanwha: XND - 8080RV	1.0._170520
Samsung/Hanwha: PNM - 9020V	1.03_171226
Samsung/Hanwha: XND - 6010	1.01_170520
Samsung/Hanwha: QNO-7020R	1.06_170520
Illustra Pro 2: All models	Camera feature specific. Check limitations for non-support.
Illustra Pro 3: All models	
Illustra Pro 4: All models	
Illustra Flex 2: All models	
Illustra Flex 3: All models	
Illustra Flex 4: All models	
Illustra Essentials 4: All models	
Holis Series: All models	
Axis cameras	Depends on camera capability

H.265+ support

H.265+ is an optimized encoding technology based on H.265. H.265+ video quality is almost as high as standard H.265 but has the benefit of lower transmission bandwidth and required storage capacity, due to three key technologies; prediction encoding, noise suppression, and flexible bitrate control.

The H.265+ codec utilizes:

- Dynamic Frame Rates: reduces FPS in quiet scenes and increases FPS in more eventful scenes.
- Dynamic GOP: increases GOP in quiet scenes and lowers it in more eventful scenes.
- The high efficiency of H.265+ encoding requires more CPU to decode or transcode.

Table 7: H.265+ firmware compatibility

Model	Firmware version
Illustra Pro 2: All models	Depends on camera capability
Illustra Pro 3: All models	
Illustra Pro 4: All models	
Illustra Flex 2: All models	
Illustra Flex 3: All models	
Illustra Flex 4: All models	
Illustra Essentials 4: All models	
Axis cameras	

Multicast

From the VideoEdge Administration interface, you can configure multicast streaming for supported cameras. victor operators can view live steams from multicast cameras while the VideoEdge is offline.

To view multicast camera streams while the VideoEdge is offline, victor workstations require a direct connection to the camera network.

The following table lists the cameras and camera firmware versions that currently support multicast streaming.

Table 8: 6.0 Multicast firmware compatibility

Camera model	Firmware version
Illustra Pro: All models	Camera feature specific. Check limitations for non-support.
Illustra Pro 2: All models	
Illustra Pro 3: All models	
Illustra Pro 4: All models	
Illustra Flex 2: All models	
Illustra Flex 3: All models	
Illustra Flex 4: All models	

H.264+ support: Zip Stream support

H.264+ allows for enhancements to the H.264 codec to be utilized such as Dynamic Frame Rates, which will reduce the FPS of the camera when the scene is quiet before increasing it again for motion, and Dynamic GOP which will increase the GOP setting as the scene gets quieter while

lowering it as more motion is visible. The following table lists the cameras and camera firmware versions that currently support H.264+.

Table 9: 6.0 H.264+ firmware compatibility

Camera model	Firmware version
Illustra Pro 2: All models	Camera feature specific. Check limitations for non-support.
Illustra Pro 3: All models	
Illustra Pro 4: All models	
Illustra Flex 2: All models	
Illustra Flex 3: All models	
Illustra Flex 4: All models	
Illustra Essentials 4: All models	

Digital output (DIO)

VideoEdge Digital I/O support enables the user to now utilize the outputs on Illustra API3 cameras. The inputs can be wired to devices which, when triggered generates an alert on the NVR. The outputs can be wired to a relay in order to trigger an external device to activate or deactivate. The following table lists the cameras and camera firmware versions that are compatible with VideoEdge Outputs.

Table 10: 6.0 VideoEdge Output with Illustra camera firmware compatibility

Camera model	Firmware version
Illustra Pro 2MP / 3MP / 5MP Fixed Mini-Dome	1.3.2 or above
Illustra Pro i625 PTZ, 30x PTZ	2.1.7 or above
Illustra Flex Gen 2 Series	SS004.01.02 or above
Illustra Pro Compact and Micro	SS005.01.03 or above
Illustra Pro Gen 3 Series	progen3_02_0 or above
Illustra Pro Gen 4 Series	Camera feature specific. Check limitations for non-support support.
Illustra Flex i600F or i800F	3.1.5 or above
Illustra Pro Bullet LT, Micro, Compact	2.1.5 or above
Illustra Pro and Pro 2 12MP FE - All models	Camera feature specific. Check limitations for non-support.
Illustra Flex Gen 3 Series	Camera feature specific. Check limitations for non-support.
Illustra Flex Gen 4 Series	Camera feature specific. Check limitations for non-support.

Illustra DIO alarm in high/low support

VideoEdge 5.1+ adds support for High/Low triggering of some of the Illustra Pro and Flex range. This now allows for Events on victor to be triggered from a Low to High State (Closed to open).

When the state of dry contacts is changed from low to high, there must be an initial trigger to cause the state to configure correctly and enable correct event triggers - if a trigger and reset is not executed at status change the next state change will fail to raise an alarm/event

Cameras which now support both High and Low status are:

- Illustra Pro 2MP / 3MP / 5MP Fixed Mini-Dome
- Illustra Pro i625 PTZ, 30x PTZ
- Illustra Flex Gen 2, Gen 3, and Gen 4 Series
- Illustra Pro Compact and Micro
- Illustra Pro Gen 3 and Gen 4 Series
- Illustra Pro Bullet LT, Micro, Compact
- Illustra Pro and Pro Gen2 12MP FE
- Illustra Flex PTZ
- Illustra Flex IR PTZ
- Illustra Flex i600F or i800F already offered this feature in previous releases.
- As NVRs are upgraded review DIO configurations of all cameras

3rd stream compatibility

Video stream configuration for supported cameras now has the ability to select an additional third stream. The third stream can be configured as MJPEG if the camera supports dual/tri streaming. This may affect the camera's CPU usage, as an additional stream and configuration settings are being pulled from the camera.

Below are types of cameras that support an additional third stream on VideoEdge along with their supported firmware;

Table 11: 3rd stream firmware compatibility

Camera	Model	Firmware version
Illustra	Illustra Pro 2: all models	Depends on camera capability
	Illustra Pro 3: all models	
	Illustra Pro 4: all models	
	Illustra Flex 2: all models	
	Illustra Flex 3: all models	
	Illustra Flex 4: all models	
	Illustra Essentials4: all models	
Axis	Depends on camera capability	Depends on camera capability

American Dynamics Fixed Camera: Illustra 210, Illustra 600, and Illustra 610 Domes

Gaming mode

Firmware 17-19 contains a new feature, Gaming mode. This can be enabled on the camera web GUI and will lock the settings of Stream 1 to H.264, 30fps.

For further information, refer to the camera manual.

If Gaming mode is enabled on the camera web interface, the following limitations apply to the VideoEdge:

Gaming Mode locks Stream 1 to 30 fps, so any fps changes on the VideoEdge will fail. The VideoEdge Stream Settings may show the new value, but refreshing the page will show the correct value of 30 fps again.

Gaming Mode locks Stream 1 to H.264, but a user can still set both streams to MJPEG on the VideoEdge. The result is that the camera will not stream. Workaround - Change Stream 1 back to H.264 on the VideoEdge.

The Illustra 600 primary and secondary streams configuration do not necessarily reflect stream one and stream two on the VideoEdge. The camera only identifies the streams by the stream codec (ignoring fps and resolution.) If the Camera is already on the VideoEdge and then Gaming Mode is enabled, the camera may stop streaming due to a settings conflict. It may be necessary to remove the camera from the VideoEdge and re-add it after enabling Gaming Mode. Alternatively, enable Gaming Mode on the camera before adding it to the VideoEdge.

You can enable Gaming Mode in the VideoEdge Administration Interface, and should follow the following rule

Do not change the Codec of the camera when Gaming mode is enabled on the VideoEdge. If you need to change the Codec, disable Gaming mode first. For Gaming mode functionality, refer to the camera-specific user manual.

Auto Discovery

The Auto-Discovery feature allows you to automatically discover 'discoverable devices' on the network to add to the VideoEdge. Multiple devices can be added to the VideoEdge until you reach your limit of camera license. The default recording status for cameras added via auto-discovery is Record Always. Once the devices are discovered the user has the choice of updating the device name. This update is applied when the camera is added to the VideoEdge.

The new auto discovery feature now allows cameras to be discovered on the network faster and with fewer steps. This feature uses standard network discovery protocols that simplify the setup of cameras on the VideoEdge. All AD cameras and Axis cameras can use this feature. Other camera manufactures may not support these standard discovery protocols. For those cameras, the existing VideoEdge 4.4 discovery functionality (Scan Devices) has been included within the VideoEdge.

When using Auto-Discovery, it is recommended that the VideoEdge you are using to discover cameras on is on the same subnet as the cameras.

Not all cameras can be added to the VideoEdge in this way as some manufacturers require cameras to be pre-configured prior to being added to network i.e. cameras which communicate through ONVIF

The user can now update the camera IP address. This is done through the ‘Discovered cameras list’ by the user enabling the check box beside the relevant camera and clicking on the ‘IP’ button. The user can then configure the IP either by using DHCP or specifying an IP address.

For Auto Discovery IP Change Feature, it is only supported for American Dynamics cameras. Known issues/limitations for this feature are for the following models:

- ADCi600-W012
- American Dynamics 8 channel IP Encoder
- Illustra 625 PTZ.

Discovered devices can now also be added to a security group. This is done by the user unchecking Default Associations and selecting a predefined security group from the security group dropdown. New security groups can be created via the security tab. Refer to security for more information.

Security hardening: HTTPS

VideoEdge 4.5 onwards supports HTTPS connection with various brand of cameras.

Users can configure 3 Security Groups in the Security page under Devices tab to the following security groups - Low(HTTP/Basic), Medium(HTTP/Digest) or High(HTTPS/SSLv3). The security group can also be kept as Default which will allow the camera handler to decide which authentication to use.

Once these Security Groups are configured, the user has the option to choose the level of security (if supported) they prefer when adding their camera to the VideoEdge and it should be noted that user will need to enable the HTTPS feature on their camera before adding to VideoEdge.

The table below shows the Security Group which each handler supports:

Table 12: Handler security group support

Handlers	Low (HTTP/Basic) or Default	Medium (HTTP/ Digest)	High (HTTPS/SSLv3)
AD 8 Channel Encoder	Yes	No	No
AD VideoEdge IP Cameras	Yes	No	No
AD Illustra iAPI1	Yes	No	Yes
AD IP SpeedDomes	N/A	N/A	N/A
AD Illustra iAPI2	Yes	No	Yes
Illustra iAPI3	Yes	Yes	Yes
Illustra Flex	Yes	No	No
Illustra Essentials	Yes	No	No
ACTi Corporation Cameras	Yes	No	No
Axis Cameras	DPC*	DPC*	DPC*
Arecont Vision Cameras	Yes	No	No
Arecont Vision- CBC	Yes	No	No
Bosch Cameras	Yes	No	No
Dahua Cameras	Yes	No	No
exacqVision	Yes	No	Yes
Flir	Yes	No	No
Hikvision	Yes	No	DPC*
Panasonic Cameras	Yes	No	No
Pelco Cameras	Yes	No	No
Hanwha/Samsung Cameras	Yes	No	No
Sony Cameras	Yes	No	Yes
Vivotek Cameras	Yes	No	Yes

* DPC - depends on camera capability

Bit rate controls on supported cameras for H.264 and MPEG4

Video stream configuration for supported cameras now has the ability to select a bitrate control for H.264 and MPEG4. Depending on the camera, bit rate control can be either variable bit rate, constrained bit rate, constant bit rate or constant quality.

ONVIF camera handler

An ONVIF compliant camera handler has been added to the VideoEdge so that ONVIF ProfileS (v2.2) compliant cameras can be added to the system.

	VideoEdge GUI Device Handler Name	Camera Model Support	Handler Version
1	AD 8 Channel Encoder	AD 8 Channel Encoder	6.0
2	AD VideoEdge IP Camera	AD Fixed	6.0
3	AD Illustra iAPI1	Illustra 400 Illustra 600C Box Illustra 600/610/LT Box/Bullet	6.0
4	AD IP SpeedDome	IP SpeedDome	6.0
5	AD Illustra iAPI2	Illustra 600/610/LT Dome Illustra 210 Dome	6.0
6	AD 1 Channel Encoder CN	ADSTE	6.0
7	Illustra iAPI3	Illustra 625 PTZ / Pro PTZ Illustra 825 Fisheye Illustra 600 Compact Mini Dome Illustra 610 Compact Mini-Bullet Illustra Pro LT Bullet Illustra Pro 2MP Micro Illustra Pro Minidomes Illustra 12MP FE Illustra Flex i600F / i800F FW 2.0.13 or above Illustra Flex PTZ Illustra Flex series Illustra Pro2.5 series Illustra Flex IR PTZ Illustra Essentials G4	6.0
8	Illustra Flex	Illustra i600F - W012 Illustra i600F - X002/ B521/D021/D111 Illustra i800F - X002/ B521/D021/D111	6.0
9	Illustra Essentials	Illustra Essentials	6.0
10	ONVIF	ONVIF	6.0
11	ACTI	ACTI	6.0
12	AXIS	AXIS	6.0
13	Arecont Vision	Arecont	6.0

	VideoEdge GUI Device Handler Name	Camera Model Support	Handler Version
14	Arecont Vision	CBC	6.0
15	Bosch	Bosch	6.0
16	Dahua	Dahua	6.0
17	exacqVision	exacqVision	6.0
18	FLIR	FLIR	6.0
19	Hikvision	Hikvision	6.0
20	Panasonic	Panasonic	6.0
21	Pelco	Pelco	6.0
22	SONY	SONY	6.0
23	Hanwha	Hanwha	6.0
24	Vivotek	Vivotek	6.0
			6.0

At any given time there may be more than one camera pack available for the VideoEdge. This camera pack provides full support to all existing (updates and add-ons) and new cameras available for the VideoEdge. The following is a list of all existing manufacturers and cameras supported by the VideoEdge:

- American Dynamics Encoders and Cameras
- Illustra Cameras
- ACTi Corporation Cameras
- Arecont Vision Cameras
- AXIS Cameras and Encoders
- Bosch Cameras
- CBC Cameras
- Dahua Cameras
- exacqVision
- FLIR
- Hikvision
- ONVIF
- Panasonic Encoders and Cameras
- Pelco
- Hanwha/Samsung Encoders and Cameras
- SONY Encoders and Cameras
- Vivotek Encoders and Cameras

General limitations

Due to the slow response from the camera APIs and the time out set on VideoEdge some cameras may not add using HTTPS. If this issue occurs use the following work around. Add camera via HTTP to VideoEdge > Change camera to HTTPS on camera webpage > Move camera on VideoEdge to a security group with the correct security settings.

Audio codec AAC is not supported use G711 audio codec instead.

In VideoEdge 4.2.0 or later, the VideoEdge does not provide any GUI for PTZ operations other than enabling PTZ and maybe Absolute Focus/Iris. Enabling PTZ only applies to Encoders, some Fixed and Fisheye cameras not PTZ Cameras. See camera specific release notes for details.

It is recommended not to configure cameras on multiple Recorders as this may impact on stream and general performance of the camera.

It is advised to make all changes on the camera configuration (stream configuration and feature change) via the VideoEdge GUI, unless specifically mentioned in these release notes.

Some of our handlers will support a Generic model integration–the main aim of the Generic model support is to provide a single video stream to the VideoEdge. All other features such as dual stream, audio, events and PTZ could be available depending on camera API, these are considered unsupported features under Generic status.

When removing a camera from the VideoEdge in version 4.6, the audio connection under Audio device tab may fail to be removed. If the audio stream is retained on VideoEdge – this will prevent the camera from being re-added to the VideoEdge until this stream is deleted.

The auto-configuration feature may not be supported on some cameras when added to the VideoEdge. The user can enable the second stream manually if required.

When changing video codec from H.264 to MJPEG there may be instances of an error on some cameras stating "Error could not update bitrate control" This feature is not supported and does not affect the camera Bit Rate Control functionality.

You should not change the Codec of the camera when Gaming mode is enabled on the VideoEdge. If you need to change the Codec, Gaming mode should be disabled first, for Gaming mode functionality refer to the cameras-specific user manual.

When changing cameras between security groups there can be errors in loading the device page. To fix this, refresh the page.

The device list might need refreshed after a configuration change has been made to reflect this on the VideoEdge GUI.

When a camera only supports one stream or does not support motion detection when adding to the VideoEdge, disable the Enable Smart Search check box as these camera do not support this feature. If this is not disabled, it can cause the camera to take longer to add and require a refresh of the browser.

ONVIF

The 5.7.100 handler can only be installed on VideoEdge version 5.7.0.628 or higher. If you currently have an older 5.7 version installed you must upgrade before applying any new handlers.

Cox

Table 14: Newly supported Cox cameras using the ONVIF camera handler

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	Edge Motion Detection Metadata	VideoEdge Versions Supported
CG320IP	H.264	Yes	Yes	Yes	Yes	No	6.0

Arecont Vision

Table 15: Supported Arecont Vision cameras using the ONVIF camera handler

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	Edge Motion Detection Metadata	VideoEdge Versions Supported
AV12CPD-236	H.264	Yes	Yes	No	Yes	No	6.0

VideoEdge configuration with Illustra cameras running Enhanced Security Mode

VideoEdge configuration with Illustra cameras running Enhanced Security Mode

Software requirements:

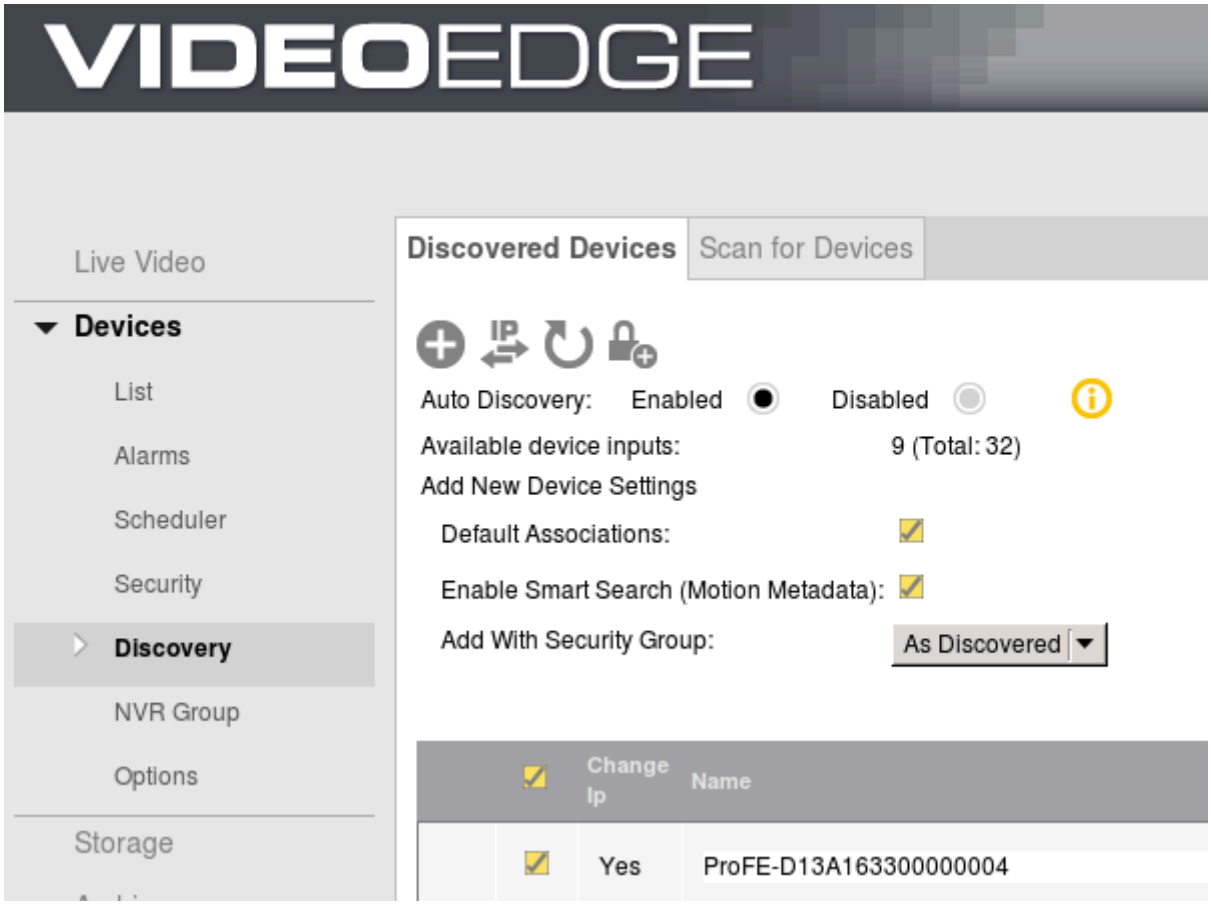
- Supported camera firmware
- Illustra Flex gen 2 series fw: SS004.01.02 or above
- Illustra Pro Compact and Micro fw: SS005.01.03 or above
- Illustra Pro Gen 3 series fw: progen3_02_0 or above
- Pro 12MP FE fw: SS002.01.00.00.0620 onwards
- Flex PTZ fw: SS002.01.00.00.0620 onwards
- Pro Minidome fw: 1.3.1.C15847A1455
- Illustra Pro Compact 2MP & 3MP fw: SS005.01.04.00.0037

VideoEdge versions:

- VE FW: 4.8 + NVR_Handler_Illustra_iAPI3-4.8.0.18016
- VE FW: 4.8.1 + NVR_Handler_Illustra_iAPI3-4.8.1.18328
- VE FW: 4.9.1 + iAPI3 Handler: Illustra_iAPI3-4.9.1.180
- VE FW: 5.0 and above (supported on core version, no need for handler)

Option 1: Configure the VideoEdge and cameras for enhanced security

Complete the following procedures to add cameras to VideoEdge, create a security group, and add the Illustra cameras to the security group.



Configuring Illustra cameras (Factory Default mode)

You must complete the following procedures before you change the Camera Security mode from Standard to Enhanced:• Adding cameras to the VideoEdge• Creating a camera security group

Log on to the camera web interface. The following are the default credentials:

Default username:admin

Default password:admin

Enter personal Host ID where supported.

To select the Security Mode, complete the following steps:

Select **Enhanced** and click **Apply**.

If the Security Mode window does not appear, you must select the Security Mode from the Security menu instead.

Open the **Security** menu.

Select **Setup**, and **Security**.

Select the **Enhanced Security** check box.

Click **Apply**.

Enter the Camera Security Group Credentials.

The Camera Security Group Credentials are the credentials for the security group that you created in VideoEdge.

Click **Apply**.

Option 2: Add cameras to a VideoEdge that is already configured for enhanced security

If your VideoEdge is already configured for enhanced security, you can add cameras to a security group when you add them to VideoEdge.

Creating a camera security group

Expand the **Devices** menu, and click **Security**.

To create a new security group, click the **Add** icon.

Enter the following group credentials:

Enter a **Group Name**.

Enter a **Description**.

Enter a **Username**.

Enter a **Password**.

This is the password that the VideoEdge uses to connect to the cameras in this security group.

In the **Confirm Password** field, confirm the password.

Optional: To configure the advanced settings, complete the following steps:

Select **Advanced**.

Set **Security Level** to **Medium (HTTP Digest)** or **High (HTTPS)** depending on camera requirements.

Enter the **Port** number.

Ensure that the **Default** check box is selected if you want to use the default port number.

To save the Security Group credentials, click the **Save** icon.

If you enable Enhanced Security for cameras running Illustra Flex SS004.01.02.00.070 or later or Pro Compact SS005.01.04.00.0037 or later, you must enable Video over HTTP to enable VideoEdge integration.

Add cameras to the VideoEdge

Expand the **Devices** menu, and click **Discovery**.

Click the **Scan for Devices** tab.

To configure the **Add New Device Settings**, complete the following steps:

Clear the **Default Associations** check box if video /audio association is not required.

To disable Smart Search for any cameras that you add manually, clear the **Enable Smart Search (Motion Metadata)** check box.

From the **Add With Security Group** list, select a Security Group preference.

To configure the **Device Scan Settings**, from the lists, select the **Security Group** and the **LAN interface**.

Optional: To configure the IP address search range, complete the following steps:

Select the **Specify an IP Address Range** check box.

Enter the **IP Address Range**.

To scan for devices, click the **Search** icon.

To add the discovered camera to the VideoEdge device list, select the discovered camera and click **Add** icon.

If you enable Enhanced Security for cameras running Illustra Flex SS004.01.02.00.070 or later or Pro Compact SS005.01.04.00.0037 or later, you must enable Video over HTTP to enable VideoEdge integration.

Alarms In/Out Edge Analytics and Enhanced Security

This issue affects the following camera firmware versions:

Illustra Flex SS004.01.02.00.070 or later

Illustra Pro Compact SS005.01.04.00.0037 or later

When you enable Enhanced Security, Video over HTTP is automatically disabled. This prevents DIO Alarm events and Edge Analytics Events/Metadata from functioning. To resolve this issue, you must log into the camera's web interface and enable VideoEdge over HTTP. You can enable this option from the Remote Access tab.

Enhanced Security changes between Firmwares

The lists below summarize the Enhanced security changes on Illustra firmware releases. These lists highlight the settings that you must configure in the recorder Security groups.

Username:

Password:

HTTP/HTTPS

HTTP method:

RTSP authentication

Video over HTTP (metadata)

After you enable Enhanced security, to use Edge Analytics you must log into the camera's web interface and enable the Video over HTTPS option.

Flex SS004.01.00.00.0392 & Pro MD 1.3.2.C17223A1581

Username: Minimum characters: 5

Password: Password length is 7 characters minimum

HTTP/HTTPS: Both

HTTP method: Digest

RTSP authentication: OFF

Video over HTTP (metadata): port 85 open

Flex SS004.01.01.00.0518

Username: Minimum characters: 5

Password: 8 characters minimum

HTTP/HTTPS: Both

HTTP method: Digest

RTSP authentication: ON

video over HTTP (metadata): port 85 open

Flex SS004.01.02.00.0584

Username: Minimum characters: 5

Password: 8 characters minimum

HTTP/HTTPS: HTTPS

HTTP method: Digest

RTSP authentication: ON

video over HTTP (metadata): port 85 open

Flex SS004.01.03.00.0704 & Pro 2MP & 3MP SS005.01.04.00.0037, & Pro Gen 3 series progen3_02_0 or above

Username: Minimum characters: 5

Password: 8 characters minimum

HTTP/HTTPS: HTTPS

HTTP method: Digest

RTSP authentication: ON

video over HTTP (metadata): port 85 Closed

Software requirements:

Supported camera firmware

- Illustra Flex gen 2 series fw: SS004.01.02 or above
- Illustra Pro Compact and Micro fw: SS005.01.03 or above
- Illustra Pro Gen 3 series fw: progen3_02_0 or above
- Pro 12MP FE fw: SS002.01.00.00.0620 onwards
- Flex PTZ fw: SS002.01.00.00.0620 onwards
- Pro Minidome fw: 1.3.1.C15847A1455
- Illustra Pro Compact 2MP & 3MP fw: SS005.01.04.00.0037

VideoEdge versions:

- VE FW: 4.8 + NVR_Handler_Illustra_iAPI3-4.8.0.18016
- VE FW: 4.8.1 + NVR_Handler_Illustra_iAPI3-4.8.1.18328
- VE FW: 4.9.1 + iAPI3 Handler: Illustra_iAPI3-4.9.1.18012
- VE FW: 5.0 and above (supported on core version, no need for handler)

Option 1: Configure the VideoEdge and cameras for enhanced security

Complete the following procedures to add cameras to VideoEdge, create a security group, and add the Illustra

cameras to the security group.

Adding cameras to the VideoEdge

About this task:
Complete the following procedures to add cameras to VideoEdge.

1. Log on to the VideoEdge Administration Interface.
2. Expand the **Devices** menu, and click **Discovery**.
3. Click the **Discovered Devices** tab.

4. To discover new cameras, click the **Refresh** icon.
5. To add discovered cameras to the VideoEdge, complete the following steps:
   a. Select the check boxes for any cameras that you want to add.
   b. To add the selected cameras to the VideoEdge, click the **Add** icon.

Creating a camera security group

About this task:

1. Expand the **Devices** menu, and click **Security**.
2. To create a new security group, click the **Add** icon.
3. Enter the following group credentials:
   a. Enter a **Group Name**.
   b. Enter a **Description**.
   c. Enter a **Username**.
   d. Enter a **Password**.
   e. In the **Confirm Password** field, confirm the password.

      ⓘ **Note:** This is the password that the VideoEdge uses to connect to the cameras in this security group.
4. OptionalTo configure the advanced settings, complete the following steps:
   a. Select **Advanced**.
   b. Set **Security Level** to **Medium (HTTP Digest)** or **High (HTTPS)** depending on camera requirements.
   c. Enter the **Port** number.
   d. If you want to use the default port number, ensure that the **Default** check box is selected.
   e. To add cameras to the security group, complete the following steps:
      i. From the left hand column, select cameras.
      ii. To add the cameras to the Security Group, click the **Right Arrow** icon.
      iii. To save the Security Group credentials, click the **Save** icon.

Configuring Illustra cameras (Factory Default mode)

About this task:

ⓘ **Note:** You must complete the following procedures before you change the Camera Security mode from Standard to Enhanced:

- Adding cameras to the VideoEdge
- Creating a camera security group

1. Log on to the camera web interface. The following are the default credentials:
   - Default username `admin`
   - Default password `admin`
2. Enter personal Host ID where supported.
3. To select the Security Mode, complete the following steps:
   a. Select **Enhanced** and click **Apply**.

ⓘ **Note:** If the Security Mode window does not appear, you must select the Security Mode from the Security menu instead.

b. Open the **Security** menu.
c. Select **Setup**, and **Security**.
d. Select the **Enhanced Security** check box.
e. Click **Apply**.
f. Enter the Camera Security Group Credentials.

ⓘ **Note:** The Camera Security Group Credentials are the credentials for the security group that you created in VideoEdge

g. Click **Apply**.

Option 2: Add cameras to a VideoEdge that is already configured for enhanced

If your VideoEdge is already configured for enhanced security, you can add cameras to a security group when you add them to VideoEdge.

Creating a camera security group

1. Expand the Devices menu, and click Security.
2. To create a new security group, click the Add icon.
3. Enter the following group credentials:
   a. Enter a Group Name.
   b. Enter a Description.
   c. Enter a Username.
   d. Enter a Password.

   ⓘ **Note:** This is the password that the VideoEdge uses to connect to the cameras in this security group.

   e. In the Confirm Password field, confirm the password.
4. Optional: To configure the advanced settings, complete the following steps:
   a. Select Advanced
   b. Set Security Level to Medium (HTTP Digest) or High (HTTPS) depending on camera requirements.
   c. Enter the Port number.

   ⓘ **Note:** Ensure that the Default check box is selected if you want to use the default port number.
5. To save the Security Group credentials, click the Save icon.

   ⓘ **Note:**

   If you enable Enhanced Security for cameras running Illustra Flex SS004.01.02.00.070 or later or Pro Compact

SS005.01.04.00.0037 or later, you must enable Video over HTTP to enable VideoEdge integration.

Add cameras to VideoEdge

1. Expand the Devices menu, and click Discovery.
2. Click the Scan for Devices tab.
3. To configure the Add New Device Settings, complete the following steps:
   a. Clear the Default Associations check box if video /audio association is not required.
   b. To disable Smart Search for any cameras that you add manually, clear the Enable Smart Search(Motion Metadata) check box.
   c. From the Add With Security Group list, select a Security Group preference.
4. To configure the Device Scan Settings, from the lists, select the Security Group and the LAN interface.
5. Optional: To configure the IP address search range, complete the following steps:
   a. Select the Specify an IP Address Range check box.
   b. Enter the IP Address Range.
6. To scan for devices, click the Search icon.
7. To add the discovered camera to the VideoEdge device list, select the discovered camera and click Addicon.

   ⓘ **Note:** If you enable Enhanced Security for cameras running Illustra Flex SS004.01.02.00.070 or later or Pro Compact SS005.01.04.00.0037 or later, you must enable Video over HTTP to enable VideoEdge integration.

Alarms In/Out Edge Analytics and Enhanced Security

Alarms In/Out Edge Analytics and Enhanced Security

This issue affects the following camera firmware versions:

Illustra Flex SS004.01.02.00.070 or later

Illustra Pro Compact SS005.01.04.00.0037 or later

When you enable Enhanced Security, Video over HTTP is automatically disabled. This prevents DIO Alarm events and Edge Analytics Events/Metadata from functioning. To resolve this issue, you must log into the camera's web interface and enable VideoEdge over HTTP. You can enable this option from the Remote Access tab.

Enhanced Security changes between Firmwares

The lists below summarize the Enhanced security changes on Illustra firmware releases. These lists highlight the

settings that you must configure in the recorder Security groups.

- Username

- Password
- HTTP/HTTPS
- HTTP method
- RTSP authentication
- Video over HTTP (metadata)

Table 16: Settings to configure in the recorder security groups

Flex SS004.01.00.00.0392 & Pro MD 1.3.2.C17223A1581	**Flex SS004.01.01.00.0518**	**Flex SS004.01.02.00.0584**	**Flex SS004.01.03.00.0704 & Pro 2MP & 3MP SS005.01.04.00.0037, & Pro Gen 3 series progen3_02_0 or above**
Username: Minimum characters: 5	Username: Minimum characters: 5	Username: Minimum characters: 5	Username: Minimum characters: 5
Password: Password length is 7 characters minimum	Password: 8 characters minimum	Password: 8 characters minimum	Password: 8 characters minimum
HTTP/HTTPS: Both	HTTP/HTTPS: Both	HTTP/HTTPS: HTTPS	HTTP/HTTPS: HTTPS
HTTP method: Digest	HTTP method: Digest	HTTP method: Digest	HTTP method: Digest
RTSP authentication: OFF	RTSP authentication: ON	RTSP authentication: ON	RTSP authentication: ON
Video over HTTP (metadata): port 85 open	video over HTTP (metadata): port 85 open	video over HTTP (metadata): port 85 open	video over HTTP (metadata): port 85 Closed

Illustra Pro free licensing

VideoEdge units running on supported SKUs offer free licensing for Illustra Pro cameras. These cameras do not consume a license when added to a VideoEdge unit.

The following table shows the manufacturers and models that are eligible for free licensing. Models ending with an asterisk represent all models that start with that sequence of characters

Table 17: illustra Pro Free Licensing

Manufacturer	**Model**
Illustra/American Dynamics/AD	ADCi210*
Illustra/American Dynamics/AD	ADCi600-*
Illustra/American Dynamics/AD	ADCi610-*
Illustra/American Dynamics/AD	ADCi600LT*
Illustra/American Dynamics/AD	ADCi610LT*
Illustra/American Dynamics/AD	ADCi625-*
Illustra/American Dynamics/AD	ADCi825-*
Illustra	IPL*
Illustra	IPP*
Illustra	IPS*

Table 17: illustra Pro Free Licensing

Manufacturer	Model
Illustra	IPR*
Illustra	IQS02*
Illustra	IQS05*
Illustra	IPT05-B29-BI03
Illustra	IPT05-B29-BIA3

Supported cameras

The following cameras are supported on the VideoEdge NVR.

American Dynamics and Illustra

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
Video Encoders							
ADEIP8H	H.264, MJPEG	Yes	16/0	Yes	No	No	4.0 - 6.0
ADEIP8M	MJPEG, MPEG4	Yes	16/0	Yes	No	No	4.0 - 6.0
Box Cameras							
ADCIPEBPN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPEBPPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPEBPPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPEBN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPEBPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPEBPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
Indoor Mini Dome Cameras							
ADCIPE3312ICN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3312ISN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3312ICPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCIPE3312ISPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3312ICPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3312ISPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
Outdoor Mini Dome Cameras							
ADCIPE3712OCN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3712OSN	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3712OCPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3712OCPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3712OSPU	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
ADCIPE3712OSPE	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0 - 6.0
IP Dome Cameras							
ADVEIPSD22N	H.264, MJPEG, MPEG4	Yes	4/0	Yes	No	No	4.0 - 6.0
ADVEIPSD22P	H.264, MJPEG, MPEG4	Yes	4/0	Yes	No	No	4.0 - 6.0
ADVEIPSD35N	H.264, MJPEG, MPEG4	Yes	4/0	Yes	No	No	4.0 - 6.0
ADVEIPSD35P	H.264, MJPEG, MPEG4	Yes	4/0	Yes	No	No	4.0 - 6.0
Illustra 210 Mini Dome Cameras							
ADCi210-D111	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D011	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D121	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi210-D021	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D113	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D013	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D123	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi210-D023	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
Illustra 600 Mini Dome Cameras							
ADCi600-D111	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D011	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D121	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D021	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D321	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D131	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D031	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D141	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D041	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 -6.0
ADCi600-D341	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D113	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D013	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D123	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D323	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi600-D133	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D033	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D143	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D043	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D343	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
Illustra 610 Mini Dome Cameras							
ADCi610-D111	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D011	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D121	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D021	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D321	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D131	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D031	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D141	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D041	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D341	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D113	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D013	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D123	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D023	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi610-D323	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D133	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D033	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D143	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D043	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
Illustra 610LT Mini Dome Cameras							
ADCi610LT-D111	H.264, MJPEG	No	0/0	No	Yes	Yes	4.1 - 6.0
ADCi610LT-D113	H.264, MJPEG	No	0/0	No	Yes	Yes	4.1 - 6.0
Illustra 600 Telephoto Lens Mini Dome Cameras							
ADCi600-D521	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D541	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D523	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi600-D543	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
Illustra 610 Telephoto Lens Mini Dome Cameras							
ADCi610-D521	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D541	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D523	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
ADCi610-D543	H.264, MJPEG	Yes	1/0	No	Yes	Yes	4.1 - 6.0
Illustra 400 WDR Indoor Mini Dome Cameras							
ADCi400-D011	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D012	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi400-D013	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D014	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D031	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D032	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D033	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D034	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D051	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D052	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D053	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D054	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
Illustra 400 WDR Outdoor Mini Dome Cameras							
ADCi400-D021	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D022	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D023	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D024	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D041	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D042	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D043	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D044	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D061	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi400-D062	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D063	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-D064	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
Illustra 400 WDR Bullet Cameras							
ADCi400-B021	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-B022	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-B041	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-B042	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-B061	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-B062	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
Illustra 400 Box Cameras							
ADCi400-X001	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
ADCi400-X002	H.264, MJPEG	Yes	1/0	No	No	No	4.0 - 6.0
Illustra 600/610 Bullet Cameras							
ADCi600-B021	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
ADCi600-B041	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
ADCi610-B021	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
ADCi610-B041	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
Illustra 600/610 Box Cameras							
ADCi600-X011	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
ADCi610-X011	H.264, MJPEG	Yes	1/0	No	No	No	4.2.1 - 6.0
Illustra 600LT Bullet Cameras							

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi600LT-B021	H.264, MJPEG	No	1/0	No	No	No	4.2.1 - 6.0
Illustra 600LT Box Cameras							
ADCi600-X011	H.264, MJPEG	No	1/0	No	No	No	4.2.1 - 6.0
Illustra 625 PTZ Cameras							
ADCi625-P132	H.264, MJPEG	No	0/0	Yes	Yes	No	4.2.1 - 6.0
ADCi625-P122	H.264, MJPEG	No	0/0	Yes	Yes	No	4.2.1 - 6.0
ADCi625-P121	H.264, MJPEG	No	0/0	Yes	Yes	No	4.2.1 - 6.0
ADCi625-P124	H.264, MJPEG	No	0/0	Yes	Yes	No	4.2.1 - 6.0
ADCi625-P123	H.264, MJPEG	No	0/0	Yes	Yes	No	4.2.1 - 6.0
ADCi625-P232	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.3 - 6.0
ADCi625-P222	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.3 - 6.0
ADCi625-P221	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.3 - 6.0
ADCi625-P223	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.3 - 6.0
ADCi625-P224	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.3 - 6.0
Illustra Pro PTZ Cameras							
IPS02P6ANBTT	H.264, MJPEG	No	0/0	Yes	Yes	No	4.6 - 6.0
IPP02P6OCWTT	H.264, MJPEG	No	0/0	Yes	Yes	No	4.6 - 6.0
IPP02P6BCWTT	H.264, MJPEG	No	0/0	Yes	Yes	No	4.6 - 6.0
IPP02P6OSWTT	H.264, MJPEG	No	0/0	Yes	Yes	No	4.6 - 6.0
IPP02P6BSWTT	H.264, MJPEG	No	0/0	Yes	Yes	No	4.6 - 6.0
IPP02P6ANBTT	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.6 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS02P6OCWTT	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.6 - 6.0
IPS02P6BCWTT	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.6 - 6.0
IPS02P6OSWTT	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.6 - 6.0
IPS02P6BSWTT	H.264, MJPEG	Yes	4/1	Yes	Yes	No	4.6 - 6.0
Illustra Pro LT 2MP Bullet							
IPL02B2BNWIY	H.264, MJPEG	No	1/1	No	Yes	No	4.4 - 6.0
IPL02B1BNWIY	H.264, MJPEG	No	1/1	No	Yes	No	4.4 - 6.0
Illustra Pro 2MP Micro Cameras							
IPS02FANWSY1	H.264, MJPEG	No	1/1	No	Yes	No	4.7.1 - 6.0
IPS02FANWSY2	H.264, MJPEG	No	1/1	No	Yes	No	4.7.1 - 6.0
IPS02FANWSY3	H.264, MJPEG	No	1/1	No	Yes	No	4.7.1 - 6.0
IPS02HFANWST2	H.264, H.264+, H.265, MJPEG	No	0/0	No	Yes	Yes	5.2 - 6.0
Illustra Pro 610 Compact Mini-Bullet Cameras							
ADCi610-M022	H.264, MJPEG	No	1/1	No	Yes	No	4.4 - 6.0
Illustra Pro 600/610 Compact Mini-Dome Cameras							
ADCi600-M111	H.264, MJPEG	No	0/0	No	Yes	No	4.3 - 6.0
ADCi610-M111	H.264, MJPEG	No	0/0	No	Yes	No	4.3 - 6.0
Illustra 825 5MP Fisheye Cameras							
ADCi825-F311	H.264, MJPEG	No	0/0	No	Yes	Yes	4.4 - 6.0
ADCi825-F312	H.264, MJPEG	No	0/0	No	Yes	Yes	4.4 - 6.0
ADCi825LT-F311	H.264, MJPEG	No	0/0	No	Yes	Yes	5.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi825LT-F312	H.264, MJPEG	No	0/0	No	Yes	Yes	5.2 - 6.0
Illustra Pro 12MP HD Fisheye Cameras							
IPS12FFOCWIY	H.264, MJPEG	Yes	1/1	No	Yes	No	4.8 - 6.0
IPS12FFOCWIYT	H.264, MJPEG	Yes	1/1	No	Yes	No	4.8 - 6.0
IPS12FFOCWIYA	H.264, MJPEG	Yes	1/1	No	Yes	No	4.8 - 6.0
IPS12-F27-OI02	H.264+, H.265	Yes	1/1	No	Yes	No	5.4.1 - 6.0
Illustra Flex Series Cube							
ADCi600F-W012	H.264, MJPEG	Yes	0/0	No	Yes	No	4.4 - 6.0
Illustra Flex Series Box							
ADCi600F-X002	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
ADCi800F-X002	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
IFS03B1ONWTTA	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex Series Bullet							
ADCi600F-B521	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
ADCi800F-B521	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
IFS03B1BNWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS03B1ONWTTA	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex Series Dome							
ADCi600F-D021	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
ADCi600F-D111	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
ADCi800F-D021	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
ADCi800F-D111	H.264, MJPEG	Yes	1/1	No	Yes	No	4.4 - 6.0
IFS03D1ICWTT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS03D1OCWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS03D1OCWTTA	H.264, H.264+, H.265,MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra FlexZ Series Dome							
IF03DIPZ	H.264, MJPEG	Yes	1/1	Yes	No	No	4.8 - 6.0
IF03OIPZ	H.264, MJPEG	Yes	1/1	Yes	Yes	No	4.8 - 6.0
Illustra Flex PTZ Series							
IFS02P5ICWTY	H.264, MJPEG	Yes	2/1	Yes	Yes	No	4.8 - 6.0
IFS02P5OCWTY	H.264, MJPEG	Yes	2/1	Yes	Yes	No	4.8 - 6.0
IFS02P6ONWIT	H.264, H.264+, H.265, , MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0
IFS02P6INWIT	H.264, H.264+, H.265, MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0
IFS02P6ONWTTA	H.264, H.264+, H.265, MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IFS02P6ONWTTB	H.264, H.264+, H.265, MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0
IFS02P6ONWITB	H.264, H.264+, H.265, MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0
IFS02P6INWITB	H.264, H.264+, H.265, MJPEG	Yes	2/2	Yes	Yes	No	4.8 - 6.0
Illustra Flex 3MP flex2 Series Dome							
IFS03D1ICWTT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS03D1OCWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex 3MP flex2 Series Box							
IFS03XNANWTT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex 3MP flex2 Series Bullet							
IFS03B1BNWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex 3MP flex2 Series Compact							
IFS03CFOCWST	H.264, H.264+, H.265, MJPEG	No	0/0	No	Yes	Yes	4.8 - 6.0
Illustra Flex 4K Series Domes							
IFS08D2ICWTT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IFS08D2ICWTTB	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS08D2OCWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS08D2OCWITB	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex 4K Series Box							
IFS08XNANWTT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex 4K Series Bullet							
IFS08B2ONWIT	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
IFS08B2ONWITB	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	4.8 - 6.0
Illustra Flex Multi-Sensor							
Illustra-Flex-16mp-Multi-Sensor	H.264, MJPEG	Yes	1/0	No	Yes	Yes	5.3 - 6.0
IFS08B2ONWITB	H.264, MJPEG	Yes	1/0	No	Yes	Yes	5.3 - 6.0
Illustra Pro Compact							
IPS02CFOCWST	H.264, H.264+, H.265, MJPEG	No	0/0	No	Yes	Yes	4.8 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS03CFOCWST	H.264, H.264+, H.265, MJPEG	No	0/0	No	Yes	Yes	4.8 - 6.0
Illustra Pro Micro							
IPS02HFANWST2	H.264, H.264+, H.265, MJPEG	No	0/0	No	Yes	Yes	5.2 - 6.0
Illustra Pro Series Dome							
IPS02D2ICWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ICWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OCWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OCWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ISWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ISWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OSWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OSWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ICBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ICBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OCBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OCBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ISBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2ISBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D2OSBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS02D2OSBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ICWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ICWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ISWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ISWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ICBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ICBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ISBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3ISBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS02D3OCWIT	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0
IPS02D0OCWTT	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0
IPS03D2ICWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ICWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OCWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OCWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ISWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ISWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OSWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OSWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ICBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS03D2ICBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OCBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OCBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ISBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2ISBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OSBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D2OSBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ICWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ISWTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ISWIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ICBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ICBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ISBTT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3ISBIT	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS03D3OCWIT	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0
IPS03D0OCWTT	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0
IPS05D2ICWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ICWIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OCWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OCWIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS05D2ISWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ISWIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OSWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OSWIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ICBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ICBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OCBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OCBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ISBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2ISBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OSBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D2OSBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ICWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ISWTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ISWIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ICBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ICBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ISBTY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3ISBIY	H.264, MJPEG	Yes	2/1	No	Yes	Yes	4.6 - 6.0
IPS05D3OCWIY	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS05D0O CWTY	H.264, MJPEG	Yes	2/1	Yes	Yes	Yes	4.8 - 6.0
Illustra Pro3 Series Dome							
IPS02-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS02-D17-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS03-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS03-D17-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS05-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS05-D14-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS08-D13-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS08-D14-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR02-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPR02-D17-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR03-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR03-D17-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR05-D12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR05-D14-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR08-D13-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS08-D14-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
Illustra Pro3 Series Bullet							
IPS02-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS02-B15-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS03-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS03-B15-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS05-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS05-B16-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS08-B13-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPS08-B16-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR02-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR02-B15-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR03-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR03-B15-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR05-B12-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPR05-B16-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR08-B13-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IPR08-B16-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
Illustra Flex 3							
IFS03-D21-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS08-D22-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS03-D21-AT03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS08-D22-AT03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS03-B21-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS08-B22-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
IFS03-C10-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IFS08-C10-OI03	H.264, H.264+, H.265, MJPEG	Yes	2/1	Yes	Yes	Yes	5.2 - 6.0
Illustra Flex 4							
IFS02-D12-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS02-D12-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS04-D12-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS04-D12-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS08-D13-OIA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS08-D13-ITA4	H.264, H.264+, H.265, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
IFS02-P07-ATA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS02-P07-IIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IFS02-P07-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-ATA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-IIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
IFS04-P07-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	2/2	Yes	Yes	Yes	5.7.1 – 6.0
Illustra Standard Gen 3							
ISIN-B02M031-N	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
ISIN-B05M031-N	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.1
Illustra Essentials Gen 4 Dome or Bullets							

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IES02CFACWSY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES02CFBCWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES02MFBNWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES02CFBCWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02MFBNWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02CFBCWIYB	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02MFBNWIYB	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02-D10-OI04	H.264, H.265, MJPEG	No	No	No	Yes	No	5.3 - 6.0
IES02-D12-OI04	H.264, H.265, MJPEG	No	No	No	Yes	No	5.3 - 6.0
IES02-B10-BI04	H.264,H.265, MJPEG	No	No	No	Yes	No	5.3 - 6.0
IES02-B12-BI04	H.264, H.265, MJPEG	No	No	Yes	Yes	No	5.3 - 6.0
IES02D1OCWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES02B1BNWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES02D1OCWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02B1BNWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES02D1OCWIYB	H.264, MJPEG	No	No	No	Yes	No	4.8.1 - 6.0
IES02B1BNWIYB	H.264, MJPEG	No	No	No	Yes	No	4.8.1 - 6.0
IES02D1OCWIYC	H.264, MJPEG	No	No	No	Yes	No	4.8.1 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IES02B1BNWIYC	H.264, MJPEG	No	No	No	Yes	No	4.8.1 - 6.0
IEs02-B10-BI04	H.264, MJPEG	No	No	No	No	No	5.3 - 6.0
IEs02-BI2-BI04	H.264, MJPEG	No	No	No	No	No	5.3 - 6.0
IEs02-D10-OI04	H.264, MJPEG	No	No	No	No	No	5.3 - 6.0
IEs02-D12-OI04	H.264, MJPEG	No	No	No	No	No	5.3 - 6.0
Illustra Essentials Z							
ADZ-D12-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	Yes	5.7.1 – 6.0
Illustra Pro Gen 4 PTZ							
IPS02-P07-RT04	MJPEG, H.264, H.264+, H.265	Yes	2/2	Yes	Yes	Yes	5.4.1 - 6.0
IPS02-P24-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	Yes	Yes	Yes	5.4.1 - 6.0
IPS08-P25-RT04	MJPEG, H.264, H.264+, H.265	Yes	2/2	Yes	Yes	Yes	5.4.1 - 6.0
IPS08-P25-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	Yes	Yes	Yes	5.4.1 - 6.0
Illustra Pro Gen 4 Fixed Dome							
IPS02-D12-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS02-D17-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0
IPS04-D12-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0
IPS04-D14-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0
IPS08-D13-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0
IPS08-D14-OI04	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.1 - 6.0
Illustra Pro Gen 4 Fisheye							
IPS12-F27-OIA4	MJPEG, H.264, H.264+, H.265, H.265+	Yes	1/1	No	Yes	No	5.6 - 6.0
Illustra Pro Gen 4 Multi-Sensor							
IPR20-M12-OIA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0
IPR32-M13-OIA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0
IPS20-M12-OIA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0

Table 18: Supported American Dynamics and Illustra Cameras

Model	CODEC Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
IPS32-M13-OIA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0
IPS20-M12-OTA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0
IPS32-M13-OTA4	MJPEG, H.264, H.264+, H.265	Yes	2/2	No	Yes	Yes	5.4.2 - 6.0
Illustra Insight							
II-AN00INT01	H.264	No	0	No	No	No	5.4.1 - 6.0
IPTV Monitors							
ADLCD22PPS2W	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
ADLCD27PPS2W	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
ADLCD32PPS2W	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
ADLCD22PPS2|B	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
ADLCD27PPS2B	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
ADLCD32PPS2B	H.264, MJPEG	No	0	No	Yes	No	4.6 - 6.0
Thermal Cameras							
IPT05-B29-BIA3	H.264, MJPEG	No	0	No	Yes	No	5.4.1- 6.0
IPT05-B29-BI03	H.264, MJPEG	No	0	No	Yes	No	5.4.1- 6.0

Note:

- The iAPI3 camera handlers support generic cameras for any unlisted models. If a camera is not in the supported list but compatible with the iAPI3, VideoEdge will attempt to support it as a generic camera. Only video and audio functions are supported for generic cameras.

- Illustra 4K models support motion, blur, video intelligence, face, and tamper edge analytics. Illustra 3 MP models support motion, blue, and tamper edge analytics.
- Illustra Pro Gen 4 cameras support motion, blur, video intelligence, face, tamper and object classification edge analytics.

Illustra Essentials Gen 1 to Gen 3

Illustra Essentials VideoEdge camera handler is fully integrated with the Illustra Essentials line of IP cameras.

Illustra Essentials Gen4 are iAPI3 compliant and are listed under Illustra iAPI3 handler chapters. See American Dynamics and Illustra for more information.

Illustra Essentials, generally, doesn't change the core API interface for their cameras. VideoEdge camera handler is based on Illustra Essentials core API version 1.40. As Illustra Essentials continues to release new cameras to market, the VideoEdge camera handler provides a generic camera handler that can connect to any Illustra Essentials cameras not listed in the available camera list. The generic camera handler will gather the required information and present this to VideoEdge.

Table 19: Supported Illustra Essentials cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Motion Detection	Edge Motion Detection Metadata	VideoEdge Versions Supported
Fixed Cameras							
IES01CFACWSY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES01CFBCWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES01MFBNWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES01CFBCWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES01MFBNWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
Varifocal Camera							
IES01D1OCWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES01B1BNWIY	H.264, MJPEG	No	No	No	Yes	No	4.6 - 6.0
IES01D1OCWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
IES01B1BNWIYA	H.264, MJPEG	No	No	No	Yes	No	4.8 - 6.0
Generic Camera							
Generic camera	H.264, MJPEG	Yes	Yes	Yes	Yes	No	4.6.0 - 6.0

Tyco Encoders

Table 20: Supported camera with Tyco Encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Encoders						
TYCE4C-N	H.264, MJPEG	Yes	4/2	Yes	MD	5.2 - 6.0
TYCE1C-N	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
TYCE4C-P	H.264, MJPEG	Yes	4/2	Yes	MD	5.2 - 6.0
TYCE1C-P	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0

ACTi Corporation

This version of the VideoEdge camera handler is fully integrated with the ACTi Corporation line of IP cameras. ACTi has a number of APIs (Application Programming Interface) camera handlers to communicate with their cameras. This version of the VideoEdge is fully integrated with the ACM models (cameras using firmware version v3.13.16-AC) and TCM models (cameras using firmware version v4.11.09-AC). As ACTi continues to release new cameras to the market, the VideoEdge camera handler provides a generic camera driver that can connect to any ACM or TCM cameras not listed in the available camera list. The generic ACTi driver will gather the required information and present this to the VideoEdge.

Table 21: Supported ACTi Corporation cameras

Model	CODEC Supported	Audio	I/O	VideoEdge Versions Supported
Fixed Cameras				
ACM5611	MJPEG	No	1/0	4.1 - 6.0
Bullet Cameras				
ACM1231	MJPEG	No	0/0	4.1 - 6.0
TCM1231	MJPEG, H.264	No	1/0	4.1 - 6.0
TCM1511	MJPEG, H.264	No	1/0	4.1 - 6.0
Cube Cameras				
ACM4201	MJPEG	No	1/0	4.1 - 6.0
TCM4201	MJPEG, H.264	No	1/0	4.1 - 6.0
Fixed Dome Cameras				
ACM3401	MJPEG	No	1/0	4.1 - 6.0
ACM3511	MJPEG	No	1/0	4.1 - 6.0
ACM3701	MJPEG	No	0/0	4.1 - 6.0
ACM7411	MJPEG	No	0/0	4.1 - 6.0
TCM3401	MJPEG, H.264	No	1/0	4.1 - 6.0
TCM3411	MJPEG, H.264	No	1/0	4.1 - 6.0

Table 21: Supported ACTi Corporation cameras

Model	CODEC Supported	Audio	I/O	VideoEdge Versions Supported
TCM3511	MJPEG, H.264	No	1/0	4.1 - 6.0
TCM7411	MJPEG, H.264	No	1/0	4.1 - 6.0
TCM7811	MJPEG, H.264	No	1/0	4.1 - 6.0
Box Cameras				
TCM5311	MJPEG, H.264	No	1/0	4.1 - 6.0
TCM5611	MJPEG, H.264	No	1/0	4.1 - 6.0
Generic				
All other models	Single (MJPEG)	No	0/0	4.1 - 6.0

Arecont Vision

VideoEdge camera handler is fully integrated with the Arecont Vision line of megapixel cameras including full support for the 180 degree and 360 degree lines of panoramic view cameras. Arecont Vision cameras operating system firmware is continually evolving; check that your camera is running the most current firmware available from Arecont Vision, available from http://www.arecontvision.com. As Arecont Vision continues to release new cameras, there may be instances where specific Arecont Vision cameras are not listed in the supported camera list. A generic Arecont Vision camera handler is available for these cameras.

VideoEdge camera handler supports the following firmware versions:

- M-JPEG cameras: firmware version 64327 or higher.
- H.264 / M-JPEG cameras: firmware version 65139 or higher.
- Supported Arecont Vision cameras

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
Fixed Cameras						
AV1115	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1115DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1115AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1125	H.264	No	0/0	No	4.0.1 - 6.0	
AV1125DN	H.264	No	0/0	No	4.0.1 - 6.0	
AV1125IR	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1300	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1300DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1300AI	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1300M	MJPEG	No	0/0	No	4.0.1 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV1305	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1305DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1305AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1310	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1310DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1315	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1315DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1325	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1325DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1325IR	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2100	MJPEG	No	0/0	No	4.0 - 6.0	
AV2100DN	MJPEG	No	0/0	No	4.0 - 6.0	
AV2100AI	MJPEG	No	0/0	No	4.0 - 6.0	
AV2100IR	MJPEG	No	0/0	No	4.0 - 6.0	
AV2100M	MJPEG	No	0/0	No	4.0 - 6.0	
AV2105	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2105DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2105AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2110DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2115	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2115DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2115AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2125	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2125DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2125IR	MJPEG	No	0/0	No	4.0.1 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV2805	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2805DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2815	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2815DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2825	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2825DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2825IR	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3100	MJPEG	No	0/0	No	4.0 - 6.0	
AV3100DN	MJPEG	No	0/0	No	4.0 - 6.0	
AV3100AI	MJPEG	No	0/0	No	4.0 - 6.0	
AV3105	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3105DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3105AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3110DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3115	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3115DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3115AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3125	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3125DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3125IR	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3155	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3155DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV5100	MJPEG	No	0/0	No	4.0 - 6.0	
AV5100DN	MJPEG	No	0/0	No	4.0 - 6.0	
AV5100AI	MJPEG	No	0/0	No	4.0 - 6.0	
AV5100M	MJPEG	No	0/0	No	4.0 - 6.0	
AV5105	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5105DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5105AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5110DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5115	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5115DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5115AI	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5125DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV08ZMV-300	H.264, MJPEG	No	1/0	Yes	5.1.0 - 6.0	1.9
Mini Dome Cameras						
AV1355	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1355DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2155	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2155DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5155	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5155DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1555DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2555DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2556DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3555DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3556DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5555DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1455DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2455DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2456DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3455DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3456DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5455DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1145DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2145DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2146DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3145DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3146DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5145DN	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2246PM	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2245PM	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3245PM	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3246PM	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5245	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV12CPD-236	H.264, MJPEG	Yes	2/0	Yes	5.4.1- 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV1245	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1245 - PMIR-SB-LG	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1245-PMIR-SBA	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1245-PMIR-SA	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV1255	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2255	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2256	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3255	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3256	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5255	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV10255	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
Panoramic Mini Dome Cameras						
AV8180	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV8185	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV8185DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV8360	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV8365	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	
AV8365DN	H.264, MJPEG	No	0/0	No	4.0.1 - 6.0	65192
AV20185DN	H.264, MJPEG	No	0/0	No	4.3 - 6.0	
AV20185CO	H.264, MJPEG	No	0/0	No	4.3 - 6.0	
AV20365DN	H.264, MJPEG	No	0/0	No	4.3 - 6.0	
AV20365CO	H.264, MJPEG	No	0/0	No	4.3 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV12275DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV12276DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV20275DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV20275DN-NL	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV12176DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV20175DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV5585PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV12585PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV12586PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV20585PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV20565DN	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	65212
AV12186DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV12366DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV40185DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
MegaVideo Box Cameras						
AV1115	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1115DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1115AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1300AI	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1300DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1305	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1305AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV1305DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1310	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1310DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV1315	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1315DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2100AI	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2100DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2105	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2105AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2105DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2110DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV2115	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2115DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2115AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2805DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2805AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2815	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2815DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3100AI	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3100DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV3105AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3105DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3115	H.264, MJPEG	No	0/0	No	4.0 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3115DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3115AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3135	H.264, MJPEG	No	0/0	Yes	4.0.1 - 5.2.0	65156
AV5100AI	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5100DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5105	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5105AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5105DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5110	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5110DN	MJPEG	No	0/0	No	4.0.1 - 6.0	
AV5115	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5115DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5115AI	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV10005	MJPEG	No	0/0	No	4.3 - 6.0	
AV10115	H.264, MJPEG	No	0/0	No	4.3 - 6.0	
AV12ZMV-301	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	2.4
AV08ZMV-300	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2215DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2216DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3215DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3216DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5215DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10215DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
MegaVideo Flex Cameras						
AV1195DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV1195DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2195DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2195DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2196DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2196DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3195DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3195DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3196DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3196DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5195DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5195DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
MegaDome Dome Cameras						
AV10255	H.264, MJPEG	No	0/0	No	4.3 - 6.0	
AV1355	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2155	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3155	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5155	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1355	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1355DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV2155DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3155DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5155DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3256PMTIR	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
AV3256PMTIR-S	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
AV5255AM	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
AV5255AM-H	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
AV5255PMIR-SH	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
AV1215PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV2215PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV2216PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV3215PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV3216PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV5215PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV10215PM	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV3236DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV2116DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV3116DN	H.264, MJPEG	No	1/0	Yes	4.8.1 - 6.0	
AV08ZMD-400	H.264, MJPEG	No	1/0	Yes	5.1.0 - 6.0	
AV3356PMIR-SA	H.264, MJPEG	Yes	0/0	Yes	5.1.0 - 6.0	
AV2355RS	H.264, MJPEG	No	0/0	Yes	5.1.0 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV12ZMD-401	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	2.4
AV08ZMD-400	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2355RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2356RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3355RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3356RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5355RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV1355PM-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV1355PMIR-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2355PM-H	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2355PMIR-SAH	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV2355PMIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2355PMTIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2356PM	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2356PMIR-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2356PMTIR-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3355PM-H	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3355PMIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3355PMTIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3356PM	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV3356PMIR-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3356PMIR-SA	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV3356PMTIR-S	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5355PM-H	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5355PMIR-SAH	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV5355PMIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV5355PMTIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10355PMIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10355PMTIR-SH	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
MegaBall Bullet Cameras						
AV5245DN-01-DA	H.264, MJPEG	No	0/0	Yes	4.8.1 - 6.0	
MegaView Bullet Cameras						
AV1325	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1325IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1325DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2825	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2825IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2825DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1125IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1125DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2125IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV2125DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3125IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV3125DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5125IR	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV5125DN	H.264, MJPEG	No	0/0	No	4.0 - 6.0	
AV1225	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2225	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV2226	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3225	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV3226	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV5225	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
AV10225	H.264, MJPEG	Yes	1/0	Yes	4.8.1 - 6.0	
MicroDome Cameras						
AV1555DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV1555DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV2555DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV2555DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV2556DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV2556DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV3555DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV3555DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV3556DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3556DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV5555DNIR-S	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV5555DNIR-S-NL	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
MicroDome Duo Cameras						
AV4655DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV4655DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV4655DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV4656DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV4656DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV4656DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6655DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6655DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6655DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6656DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6656DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV6656DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10655DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65201
AV10655DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10655DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
MicroBullet Cameras						
AV2325DNIR	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV2326DNIR	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	
AV3325DNIR	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	
AV3326DNIR	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	
Contera Dome Series						
AV02CLD-100	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	35105
AV05CLD-100	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	35105
AV02CID-100	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV05CID-100	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
Contera Bullet Series						
AV02CLB-100	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	35105
AV05CLB-100	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
AV02CMB-100	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	
AV05CMB-100	H.264, MJPEG	No	0/0	Yes	5.2 - 6.0	
SurroundVideo Omni G3 Series						
AV12375RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65212
AV12376RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV20375RS	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
SurroundVideo Omni SX Series						
AV12976DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65213
AV20975DN-08	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65213
AV20975DN-28	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65213
AV20975DN-NL	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	65213

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
Contera Panoramic Series						
AV08CPD-118	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV20CPD-118	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
Surround Video G5 Mini Series						
AV12565DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV12566DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV12585DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV12586DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV20585DN	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV12975DN-08	H.264, MJPEG	No	1/0	Yes	5.3 - 6.0	65213
AV12975DN-28	H.264, MJPEG	No	1/0	Yes	5.3 - 6.0	65213
AV12975DN-NL	H.264, MJPEG	No	1/0	Yes	5.3 - 6.0	65213
AV12976DN-08	H.264, MJPEG	No	1/0	Yes	5.3 - 6.0	65213
AV12976DN-28	H.264, MJPEG	No	1/0	Yes	5.3 - 6.0	65213
MegaVideo Compact Series						
AV1115DNv1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2115DNv1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV1115v1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV2115v1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV1011DNv1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
AV10115v1	H.264, MJPEG	No	1/0	Yes	5.2 - 6.0	
Omni LX RS series						

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV8476RS	H.264, MJPEG	Yes	1/0	Yes	5.2 - 5.3	
AV20476RS	H.264, MJPEG	Yes	1/0	Yes	5.2 - 6.0	
Megaball G2 Series						
AV2245PM-D-LG	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2245PMIR-SBA-LG	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2246PM-D-LG	H.264, MJPEG	No	1/0	Yes	5.4 - 6.0	
AV3245PM-D-LG	H.264, MJPEG	No	1/0	Yes	5.4 - 6.0	
AV3246PM-D-LG	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV5245DN-01-D-LG	H.264, MJPEG	No	1/0	Yes	5.4 - 6.0	
AV5245PM-D-LG	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
MegaView 2 Series						
AV2225PMIR	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2225PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2225PMIR-SA	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2225PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2226PMIR	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2226PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV2226PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV3225PMIR	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV3225PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV3225PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV3226PMIR	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV3226PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV3226PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV5225PMIR	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV5225PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV5225PMIR-SA	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV5225PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV10225PMIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV10225PMTIR-S	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
ConteraIP Omni Series						
AV20476RS	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
AV8476RS	H.264, MJPEG	Yes	1/0	Yes	5.4 - 6.0	
Generic						
All other models	DPC*	DPC*	DPC*	DPC*	4.0 - 6.0	
SurroundVideo Omni Series						
AV12176DN-08	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV12176DN-28	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV12176DN-NL	H.264, MJPEG	No	1/1	Yes	6.0	65200
AV20175DN-08	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV20175DN-28	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV20175DN-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
MicroDome G2 Series						

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV1555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV1555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV1555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV1555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2556DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2556DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2556DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2556DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3556DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3556DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3556DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3556DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV5555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV5555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV5555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV5555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
MegaVideo G5 Series						
AV2215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2216PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269 WDR
AV3215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3216PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269WDR
AV5215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV10215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
ConteraIP Omni LX						
AV20476DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV20476DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV8476DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV8476DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV20576RS	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV20576DN	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
ConteraIP MicroDome Duo						
AV10856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV16856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV4856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV10856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412

Model	Codec Supported	Audio	I/O	Edge Motion Detection	VideoEdge Versions Supported	Firmware Versions Tested Against
AV16856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV4856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
ConteraIP Outdoor Dome Series						
AV5456PMIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	71501
ConteraIP MicroDome Series						
AV2756DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DNIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DNIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DNIR-S-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DNIR-S-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
ConteraIP Bullet Series						
AV5426PMIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	71501

* DPC - depends on camera capability

ⓘ **Note:** Each of the multi-sensor cameras are comprised of four individual cameras housed together as a single camera. Check that you have sufficient camera licenses available with your VideoEdge. When you add cameras to the VideoEdge ensure that four camera slots are available for each camera. For example when you add three separate cameras, the first camera should be added to slot 1. This camera will use slots 1, 2, 3, 4. Add the second camera to slot 5 , it will use slots 5, 6, 7, 8. Add the third camera to slot 9, it will use 9, 10, 11, 12. Repeat this process for each camera that you add.

AXIS Communications

The VideoEdge camera handler is fully integrated with the AXIS communications line of IP cameras and video encoders. AXIS has number of APIs (Application Programming Interface) camera handlers that communicate with the AXIS cameras. VideoEdge is fully integrated with the VAPIX® API Version 2 cameras that use firmware version 4.xx and VAPIX® API Version 3 cameras that use firmware version 5.xx. As AXIS continues to release new cameras to the market, the VideoEdge

camera handler provides a generic AXIS camera driver that can connect to any VAPIX® 2 and 3 camera. The generic driver gathers all required information, including the camera name and functionality, and presents it to the VideoEdge.

Table 22: Supported Camera API and Models

API Version	Minimum Camera Firmware Version	Handler Version
VAPIX API Version 2	Firmware version 4.xxx	4.4.0.800, 4.9.0.0.2024
VAPIX API Version 3	Firmware version 5.xxx and later	4.4.0.2044, 4.9.0.0.2024, 5.1.100.2034

Support for Axis Perimeter Defender Edge Analytics with software version 2.5.2 on specific cameras only.

Note:

- MD = Motion Detection
- PD = Perimeter Defender v2.5.2
- LG = Loitering Guard

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Encoders						
P7304	H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.4.1 - 6.0
M7001	H.264, MJPEG	No	0/0	Yes	MD	4.0.1 - 6.0
M7011	H.264, MJPEG	No	0/0	Yes	MD,PD	4.8.1 - 6.0
M7116	H.265, H.264,MJPEG	-	-	-	-	5.6 -6.0
Q7401	H.264, MJPEG	Yes	4/0	Yes	MD	4.0 - 6.0
Q7404	H.264, MJPEG	Yes	8/0	Yes	MD	4.0.1 - 6.0
Q7406	H.264, MJPEG	Yes	2/0	Yes	MD	4.0 - 6.0
Q7414	H.264, MJPEG	Yes	8/0	Yes	MD	4.0 - 6.0
240Q	MJPEG, MPEG4	No	4/0	Yes	MD	4.0.1 - 6.0
241Q	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0 - 6.0
241QA	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0.1 - 6.0
241S	MJPEG, MPEG4	No	4/0	Yes	MD	4.0.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
241SA	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0.1 - 6.0
243Q	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0 - 6.0
243SA	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0.1 - 6.0
247S	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0.1 - 6.0
291 1U	-	-	-	-	-	5.6 - 6.0
M7010	H.264, MJPEG	Yes	0/0	Yes	MD	4.4 - 6.0
M7014	H.264, MJPEG	Yes	0/0	Yes	MD	4.4 - 6.0
M7016	H.264, MJPEG	Yes	0/0	Yes	MD	4.4 - 6.0
P7210	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P7214	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P7216	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P7224	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
Q7411	H.264, MJPEG	Yes	4/0	Yes	MD,PD	4.4 - 6.0
Q7424-R	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
Q7424-R Mk II	H.264, MJPEG	Yes	2/0	Yes	MD	4.8.1 - 6.0
Q7436	H.264, MJPEG	No	8/0	Yes	MD	4.8.1 - 6.0
Q7920	-	-	-	-	-	5.6 - 6.0
P7224 Blade	H.264, MJPEG	Yes	2/0	Yes	MD	4.4 - 6.0
Q7414 Blade	H.264, MJPEG	Yes	2/0	Yes	MD	5.2 - 6.0
Q7436 Blade	H.264, MJPEG	No	2/0	Yes	MD,PD	4.8.1 - 6.0
M7104	H.264, MJPEG	Yes	4/0	Yes	MD	5.3 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P7304	H.264, MJPEG	Yes	1/1	Yes	MD	5.3 - 6.0
M7116	H.265, H.264, MJPEG	-	-	-	-	5.6 -6.0
291 1U	-	-	-	-	-	5.6 - 6.0
Q7920	-	-	-	-	-	5.6 -6.0
Fixed cameras						
M1011	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
M1011-W	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M1025	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
M1124	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
M1124-E	H.264, MJPEG	No	1/0	No	MD, PD	4.8.1 - 6.0
M1125	H.264, MJPEG	No	1/0	No	MD,PD	4.8.1 - 6.0
M1125-E	H.264, MJPEG	No	1/0	No	MD,PD	4.8.1 - 6.0
M1145	H.264, MJPEG	No	1/0	No	MD,PD	4.8.1 - 6.0
M1145-L	H.264, MJPEG	No	1/0	No	MD,PD	4.8.1 - 6.0
M1031-W	H.264, MJPEG	Yes	0/0	No	MD	4.0 - 6.0
M1054	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
M1103	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M1104	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M1113	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M1114	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M3066-V	H.265, H.264	No	0/0	No	MD, LG	5.4.1 - 6.0
M3068-P	H.265, H.264	No	0/0	No	MD, LG	5.4.1 - 6.0
M3115-LVE	H.265, H.264	No	0/0	No	MD, LG	5.4.1 - 6.0
M3116-LVE	H.265, H.264	No	No	No	MD, LG	5.4.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
M3205-LVE	H.265, H.264	Yes	1/1	No	MD, LG	5.4.1 - 6.0
M3206-LVE	H.265, H.264	Yes	1/1	No	MD, LG	5.4.1 - 6.0
M4216-LV	H.265, H.264, MJPEG	No	-	Digital	MD	5.6-6.0
M4216-V	H.265, H.264, MJPEG	No	-	Digital	MD	5.6- 6.0
P1311	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P1343	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1343-E	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1344	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P1344-E	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1346	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P1346-E	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1347	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1347-E	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P1364	H.264, MJPEG	Yes	1/0	No	MD,PD	4.8.1 - 6.0
P1364-E	H.264, MJPEG	Yes	1/0	No	MD,PD	4.8.1 - 6.0
P1365 Mk II	H.264, MJPEG	Yes	1/0	No	MD,PD	4.8.1 - 6.0
P1365-E Mk II	H.264, MJPEG	Yes	1/0	No	MD,PD	4.8.1 - 6.0
P1357	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P1357-E	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P1405-E	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P1405-LE	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P1405-LE Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1425-E	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1425-LE	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1425-LE Mk II	H.264, MJPEG	No	1/0	No	MD	5.2 - 6.0
P1427-E	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1427-LE	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1428-E	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1435-E	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1435-LE	H.264, MJPEG	No	1/0	No	MD,PD	4.8.1 - 6.0
P3245-LVE-3	H.264, MJPEG	Yes	1/1	No	MD	5.6- 6.0
P3265-LV	H.265, H.264, MJPEG	Yes	1/1	Digital	MD/ OC	5.6- 6.0
P3727-PLE	H.265, H.264, MJPEG	No	-	No	MD	5.6- 6.0
Q1614	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q1614-E	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q1635	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q1635-E	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q1755	H.264, MJPEG	Yes	2/0	Zoom only	MD	4.0 - 6.0
Q1755-E	H.264, MJPEG	Yes	2/0	Zoom only	MD	4.0.1 - 6.0
Q1775	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q1775-E	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q3536-LVE	H.265, H.264, MJPEG	Yes	1/1	1/1	MD	5.6- 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q3538-LVE	H265, H264, MPEG	Yes	1/1	No	MD	5.6- 6.0
206	MJPEG, MPEG4	No	0/0	No	MD	4.0.1 - 6.0
206-M	MJPEG, MPEG4	No	0/0	No	MD	4.0.1 - 6.0
206-W	MJPEG, MPEG4	No	0/0	No	MD	4.0.1 - 6.0
207	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
207-MW	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
207-W	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
210	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
210A	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
211	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
211-A	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
211-M	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
211-W	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
223M	MJPEG, MPEG4	No	2/0	No	MD	4.0.1 - 6.0
225FD	MJPEG, MPEG4	No	2/0	No	MD	4.0 - 6.0
M1004-W	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
M1013	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M1014	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M1033-W	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
M1034-W	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
M1054	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
M1143-L	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
M1144-L	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M2014-E	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
P1353	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P1354	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P1355	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P1357	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
Q1602	H.264, MJPEG	Yes	0/0	No	MD	4.4 - 6.0
Q1602-E	H.264, MJPEG	Yes	0/0	No	MD	4.4 - 6.0
Q1604	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
Q1604-E	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
Q1765-LE	H.264, MJPEG	Yes	2/	Zoom only	MD	4.4 - 6.0
Q1615	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
Q1615 Mk II	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
Q1615-E	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
Q1615-E Mk II	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
Q1659	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
M1045-LW	H.264, MJPEG	Yes	0/0	No	MD	5.2 - 6.0
M1065-L	H.264, MJPEG	Yes	0/0	No	MD	5.2 - 6.0
M1065-LW	H.264, MJPEG	Yes	0/0	No	MD	5.2 - 6.0
M2025-LE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
M2026-LE	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M2026-LE Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1254	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1245	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
P1264	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1367	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
P1265	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1275	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1280-E	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P1290-E	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P1367-E	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
P1368-E	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
P1447-LE	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0
P1448-LE	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0
Q1645	H.264, MJPEG	Yes	4/0	No	MD,PD	5.2 - 6.0
Q1645-LE	H.264, MJPEG	Yes	4/0	No	MD,PD	5.2 - 6.0
Q1647	H.264, MJPEG	Yes	4/0	No	MD,PD	5.2 - 6.0
Q1647-LE	H.264, MJPEG	Yes	4/0	No	MD,PD	5.2 - 6.0
Q1765-LE PT Mount	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3717-PLE	H.264, MJPEG	No	0/0	Yes	MD	5.3 - 6.0
P9106-V	H.264, MJPEG	No	0/0	No	MD,PD	5.3 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q1785-LE	H.264, MJPEG	Yes	0/0	32x Optical Zoom	MD,PD	5.3 - 6.0
Q1786-LE	H.264, MJPEG	Yes	1/0	Zoom	MD,PD	5.3 - 6.0
P1445-LE	H.264, MJPEG	Yes	1/0	3x Optical Zoom	MD,PD	5.3 - 6.0
P3717-PLE	H.264, MJPEG	No	0/0	No	MD,PD	5.3 - 6.0
P3807-PVE	H.264, MJPEG	No	0/0	No	MD,PD	5.3 - 6.0
P1375	H.264, MJPEG	Yes	2/2	Zoom Only	MD, PD, LG	5.3 - 6.0
P1375-E	H.264, MJPEG	Yes	2/2	Zoom Only	MD, PD, LG	5.3 - 6.0
Q1700-LE	H.264, MJPEG	Yes	2/0	Zoom Only	MD	5.3 - 6.0
Q1798-LE	H.264, MJPEG	Yes	2/0	Zoom Only	MD, PD, LG	5.3 - 6.0
M1134	H.264, H.265	Yes	1/1	No	MD, LG	5.3 - 6.0
M1135	H.264, H.265	Yes	1/1	No	MD, LG	5.3 - 6.0
M1135-E	H.264, H.265	Yes	1/1	No	MD, LG	5.3 - 6.0
M1137	H.264, H.265	Yes	1/1	No	MD, LG	5.3 - 6.0
M1137-E	H.264, H.265	Yes	1/1	No	MD, LG	5.3 - 6.0
P1377	H.264, MPEG	Yes	2/2	No	MD, LG	5.3 - 6.0
P1377-LE	H.264, MPEG	Yes	2/2	No	MD, PD, LG	5.3 - 6.0
P1378	H.264, MPEG	Yes	2/2	No	MD, LG	5.3 - 6.0
P1378-LE	H.264, MPEG	Yes	2/2	No	MD, PD, LG	5.3 - 6.0
Fixed Box cameras						
P1455-LE	H.265, H.264, MJPEG	Yes	1/1	Zoom	MD, PD, LG	5.4.1 – 6.0
Q1615 Mk 3	H.265, H.264, MJPEG	Yes	2/2	No	MD, PD, LG	5.4.1 – 6.0
Q1615-LE Mk 3	H.265, H.264, MJPEG	Yes	2/2	No	MD, PD, LG	5.4.1 – 6.0
Q1656-LE	H.265, H.264, MJPEG	Yes	2/2	No	MD	5.6- 6.0
Fixed Bullet Camera						
P1455-LE-3	H.265, H.264,MJPEG	Yes	1/1	No	MD	5.6- 6.0
Fixed Dome cameras						

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3719-PLE	H.264, H.265	Yes	1/1	No	MD	5.4.1 - 6.0
P3245-LVE	H.265, H.264	Yes	1/1	No	MD, PD, LG	5.4.1 - 6.0
P3245-V	H.265, H.264	Yes	1/1	No	MD, PD, LG	5.4.1 - 6.0
P3245-VE	H.265, H.264	Yes	1/1	No	MD, PD, LG	5.4.1 - 6.0
P3715-PLVE	H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 - 6.0
M3011	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M3014	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M3113-R	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M3113-VE	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M3114-R	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M3114-VE	H.264, MJPEG	No	0/0	No	MD	4.0.1 - 6.0
M3203	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M3203-V	H.264, MJPEG	No	0/0	No	MD	4.0 - 6.0
M3204	H.264, MJPEG	Yes	1/0	No	MD	4.1 - 6.0
P3301	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3301-V	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3304	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3304-V	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3343	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3343-V	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3343-VE	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3344	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3344-V	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3344-VE	H.264, MJPEG	Yes	1/0	No	MD	4.0 - 6.0
P3346	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P3346-V	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
P3346-VE	H.264, MJPEG	Yes	1/0	No	MD	4.0.1 - 6.0
209FD	MJPEG, MPEG4	No	0/0	No	MD	4.0 - 6.0
209FD-R	MJPEG, MPEG4	No	0/0	No	MD	4.0.1 - 6.0
209MFD	MJPEG, MPEG4	No	0/0	No	MD	4.0 - 6.0
209MFD-R	MJPEG, MPEG4	No	0/0	No	MD	4.0.1 - 6.0
216FD	MJPEG, MPEG4	Yes	1/0	No	MD	4.0 - 6.0
216FD-V	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
216MFD	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
216MFD-V	MJPEG, MPEG4	Yes	1/0	No	MD	4.0.1 - 6.0
M3004-V	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M3005-V	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M3006-V	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M3007-P	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M3007-PV	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
M3024-LVE	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
M3025-VE	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
M3026-VE	H.264, MJPEG	No	1/0	No	MD,PD	4.4 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
M3027-PVE	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
M3037-PVE	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
M3044-V	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
M3045-V	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
M3046-V	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3214-V	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3214-VE	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3215-V	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3215-VE	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3224-LV	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
P3224-LVE	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
P3225-LV	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
P3225-LVE	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
P3235-LV	H.264, MJPEG	No	0/0	No	MD,PD	5.3 - 6.0
P3235-LVE	H.264, MJPEG	Yes	0/0	No	MD,PD	5.3 - 6.0
P3314-Z	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
P3314-ZL	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
P3315-Z	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
P3315-ZL	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0
P3364-V	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P3364-LV	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3364-VE	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P3364-LVE	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P3365-V	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P3365-VE	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
P3707-PE	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3807-PVE	H.264, MJPEG	No	0/0	Yes	MD	4.3 - 6.0
P3904-R	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
P3905-R	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3905-RE	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
P3915-R	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q3505-V	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q3505-VE	H.264, MJPEG	Yes	1/0	No	MD	4.8.1 - 6.0
Q3708-PVE	H.264, MJPEG	No	0/0	No	MD,PD	4.8.1 - 6.0
Q3709-PVE	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
Q8414-LVS	H.264, MJPEG	Yes	1/0	No	MD,PD	4.8.1 - 6.0
P3353	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
P3354	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
P3363-V	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3363-VE	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3364-V	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3364-VE	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3384-V	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3384-VE	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3367-V	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
P3367-VE	H.264, MJPEG	Yes	1/0	No	MD	4.4 - 6.0
M3044-WV	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3045-WV	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3047-P	H.264, MJPEG	No	0/0	No	MD	5.1 - 6.0
M3048-P	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3104-L	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3104-LVE	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3105-L	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
M3105-LVE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
M3106L-MKII	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3224-LV Mk II	H.264, MJPEG	Yes	0/0	No	MD	5.2 - 6.0
P3224-V Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3225-LV Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3225-LVE Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3225-V Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3225-VE Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3227-LV	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3227-LVE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3228-LV	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3228-LVE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3235-LVE	H.264, MJPEG	Yes	0/0	No	MD	5.3 - 6.0
M3015	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3016	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
M3057-PLVE	H.264, MJPEG	No	1/0	No	MD	5.2 - 6.0
M3058-PLVE	H.264, MJPEG	No	1/0	No	MD	5.2 - 6.0
M3106-LVE Mk II	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
P3904-R Mk II	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3915-R Mk II	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0
Q3505-SVE Mk II	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
Q3515-LV	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
Q3515-LVE	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
Q3517-LV	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
Q3517-LVE	H.264, MJPEG	Yes	2/0	No	MD	5.2 - 6.0
Q3615-VE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
Q3617-VE	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
P3374-LV	H.264, MJPEG	Yes	1/0	No	MD	5.2 - 6.0
P3374-V	H.264, MJPEG	Yes	1/0	No	MD	5.2 - 6.0
P3375-LV	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0
P3375-V	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3375-VE	H.264, MJPEG	Yes	1/0	No	MD,PD	5.2 - 6.0
P3375-LVE	H.264, MJPEG	Yes	0/0	No	MD,PD	5.3 - 6.0
P3905-R Mk II	H.264, MJPEG	No	0/0	No	MD,PD	5.3 - 6.0
Q3517-SLVE	H.264, MJPEG	Yes	0/0	No	MD,PD	5.3 - 6.0
Q3518-LVE	H.264, MJPEG	Yes	0/0	No	MD,PD	5.3 - 6.0
Q3527-LVE	H.264, MJPEG	Yes	0/0	No	MD,PD	5.3 - 6.0
P3245-LV	H.264, MJPEG	Yes	1/1	Zoom Only	MD, PD, LG	5.3 - 6.0
M4206-LV	H.264, MJPEG	No	0/0	Zoom Only	MD, LG	5.3 - 6.0
M4206-V	H.264, MJPEG	No	0/0	Zoom Only	MD, LG	5.3 - 6.0
M3106-L Mk II	H.264, MJPEG	No	0/0	No	MD, LG	5.3 - 6.0
M3057-PLVE Mk 2	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
M3064-V	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
M3065-V	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
M3067-P	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
M3075-V	H.265, H.264, MJPEG	Yes	0/0	No	MD, LG	5.4.1 – 6.0
M3077-PLVE	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.4.1 – 6.0
P3247-LV	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.4.1 – 6.0
P3247-LVE	H.265, H.264, MJPEG	Yes	1/1	No	MD, PD, LG	5.4.1 – 6.0
P3248-LV	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.4.1 – 6.0
P3248-LVE	H.265, H.264, MJPEG	Yes	1/1	No	MD, PD, LG	5.4.1 – 6.0
P3255-LVE	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.4.1 – 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P3925-LRE	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
P3925-R	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
P3935-LR	H.265, H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 – 6.0
Q9216-SLV	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.4.1 – 6.0
Q3819-PVE	H.265, H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.4.1 – 6.0
P3265-LV	H.265, H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.4.1 – 6.0
P3265-LVE	H.265, H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.4.1 – 6.0
P3265-V	H.265, H.264, MJPEG	Yes	1/1	Yes	MD, LG	5.4.1 – 6.0
Covert cameras						
P1204	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
P1214	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
P1214-E	H.264, MJPEG	No	1/0	No	MD	4.4 - 6.0
P1244	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P1224-E	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P8513	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
P8514	H.264, MJPEG	No	0/0	No	MD	4.4 - 6.0
P8524	H.264, MJPEG	No	1/0	No	MD	4.8.1 - 6.0
P8535	H.264, MJPEG	Yes	4/0	No	MD	4.8.1 - 6.0
F34	H.264, MJPEG	No	0/0	No	MD	4.8.1 - 6.0
F41	H.264, MJPEG	Yes	4/0	No	MD	4.8.1 - 6.0
F44	H.264, MJPEG	Yes	4/0	No	MD	4.8.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
FA54	H.264, MJPEG	Yes	4/0	No	MD	5.2 - 6.0
F1004 Bullet	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F1004 Pinhole	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F1005-E	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F1015	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F1025	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F1035-E	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F4005	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
F4005-E	H.264, MJPEG	No	0/0	No	MD	5.3 - 6.0
FA 1080-E	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
FA 1105	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
FA 1125	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
FA 3105-L	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
FA 4090-E	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
FA 4115	H.264, MJPEG	No	0/0	No	MD	5.4.1 – 6.0
PTZ cameras						
212PTZ	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0 - 6.0
212PTZ-V	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0.1 - 6.0
213PTZ	MJPEG, MPEG4	Yes	2/0	Yes	MD	4.0.1 - 6.0
214PTZ	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0.1 - 6.0
215PTZ	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
215PTZ-E	MJPEG, MPEG4	Yes	1/0	Yes	MD	4.0.1 - 6.0
Q6010-E	H.265, H.264	No	0/0	No	MD, PD, LG	5.4.1 - 6.0
Q6074	H.264, MJPEG	Yes	4/4	Yes	MD, PD, LG	5.4.1 - 6.0
Q6074-E	H.264, MJPEG	Yes	4/4	Yes	MD, PD, LG	5.4.1 - 6.0
Q6154-E	H.264, MJPEG	No	0/0	No	MD, PD, LG	5.4.1 - 6.0
P5654-E	H.265, H.264, MJPEG	No	0/0	Yes	MD, LG	5.4.1 - 6.0
Q6075-S	H.265, H.264, MJPEG	No	1/0	Yes	MD, LG	5.4.1 - 6.0
Q6075-SE	H.265, H.264, MJPEG	No	1/0	Yes	MD, LG	5.4.1 - 6.0
Q6078-E	H.265, H.264,MJPEG	No	-	Yes	MD, LG	5.6 - 6.0
Q6100-E	H.265, H.264	No	0/0	Yes	MD, LG	5.4.1 – 6.0
Q6135-LE	H.265, H.264, MJPEG	No	0/0	Yes	MD, LG	5.4.1 – 6.0
V5925	H.265, H.264, MJPEG	Yes	1/1	Yes	MD	5.4.1 – 6.0
PTZ Dome cameras						
P5512	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5512-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5522	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5522-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5532	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5532-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5534	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
P5534-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.0.1 - 6.0
Q6032-E	H.264, MJPEG	No	0/0	Yes	MD	4.0 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q6034	H.264, MJPEG	No	0/0	Yes	MD	4.0.1 - 6.0
Q6034-E	H.264, MJPEG	No	0/0	Yes	MD	4.0.1 - 6.0
231D+	MJPEG, MPEG4	No	0/0	Yes	MD	4.0.1 - 6.0
232D+	MJPEG, MPEG4	No	0/0	Yes	MD	4.0.1 - 6.0
233D	MJPEG, MPEG4	Yes	4/0	Yes	MD	4.0 - 6.0
M5013	H.264, MJPEG	No	0/0	Yes	MD	4.1 - 6.0
M5014	H.264, MJPEG	No	0/0	Yes	MD	4.1 - 6.0
Q6000	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6000-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6035	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
Q6035-E	H.264, MJPEG	No	4/0	Yes	MD	4.4 - 6.0
Q6035-C	H.264, MJPEG	No	2/0	Yes	MD	4.4 - 6.0
Q6042	H.264, MJPEG	Yes	2/0	Yes	MD	4.4 - 6.0
Q6042-C	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6042-E	H.264, MJPEG	No	0/0	Yes	MD	4.4 - 6.0
Q6042-S	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6044	H.264, MJPEG	Yes	2/0	Yes	MD	4.4 - 6.0
Q6044-C	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6044-E	H.264, MJPEG	No	0/0	Yes	MD	4.4 - 6.0
Q6044-S	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6045	H.264, MJPEG	Yes	2/0	Yes	MD	4.4 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q6045 Mk II	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6045-C Mk II	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6045-E	H.264, MJPEG	No	0/0	Yes	MD	4.4 - 6.0
Q6045-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6045-S Mk II	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6054	H.264, MJPEG	Yes	0/0	Yes	MD	4.8.1 - 6.0
Q6114	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6114-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6115	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6115-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6128	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6128-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q6155-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q8631-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q8632-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q8665-E	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
Q8665-lE	H.264, MJPEG	No	0/0	Yes	MD	4.8.1 - 6.0
P5414-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P5415-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P5544	H.264, MJPEG	Yes	4/0	Yes	MD	4.4 - 6.0
P5514	H.264, MJPEG	Yes	4/0	Yes	MD	4.8.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
P5514-E	H.264, MJPEG	No	4/0	Yes	MD	4.8.1 - 6.0
P5515	H.264, MJPEG	Yes	4/0	Yes	MD	4.8.1 - 6.0
P5515-E	H.264, MJPEG	No	4/0	Yes	MD	4.8.1 - 6.0
P5635	H.264, MJPEG	Yes	4/0	Yes	MD	4.8.1 - 6.0
P5635-E	H.264, MJPEG	Yes	4/0	Yes	MD	4.8.1 - 6.0
P5635 MK II	H.264, MJPEG	Yes	4/0	Yes	MD	4.8.1 - 6.0
V5914	H.264, MJPEG	Yes	2/0	Yes	MD	4.8.1 - 6.0
V5915	H.264, MJPEG	Yes	2/0	Yes	MD	4.8.1 - 6.0
P5624-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
M5525-E	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
P5635-E Mk II	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6000-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6052	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6052-E	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6054 Mk II	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6054-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6055	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6055-E	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6055-C	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6055-S	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6124-E	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q8741-E	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
Q8742-E	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
P5624-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
M5525-E	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
P5635-E Mk II	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6000-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6052	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6052-E	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6054 Mk II	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
Q6054-E Mk II	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
M5054	H.264, MJPEG	Yes	0/0	Yes	MD	5.2 - 6.0
M5055	H.264, MJPEG	Yes	0/0	Yes	MD	5.2 - 6.0
M5065	H.264, MJPEG	Yes	0/0	Yes	MD	5.2 - 6.0
Q6124-E	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6125-LE	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
Q6215-LE	H.264 MJPEG	No	0/0	Yes	MD	5.3 - 6.0
Q6054 Mk III	H.264, MJPEG	Yes	4/0	Yes	MD	5.3 - 6.0
Q6054-E Mk III	H.264, MJPEG	No	4/0	Yes	MD	5.3 - 6.0
Q8641-E	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
Q8642-E	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
Q8685-E	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q8685-LE	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
Q8741-LE	H.264, MJPEG	No	4/0	Yes	MD	5.2 - 6.0
Q8742-LE	H.264, MJPEG	No	4/0	Yes	MD	5.3 - 6.0
Q6075	H.264, MJPEG	Yes	4/0	Yes	MD, LG	5.3 - 6.0
Q6075-E	H.264, MJPEG	No	0/0	Yes	MD, LG	5.3 - 6.0
P5655-E	H.264, MJPEG	No	4/0	Yes	MD, LG	5.3 - 6.0
Panoramic cameras						
P3727-PLE	H.265, H.264,MJPEG	Yes	-	Yes	MD	5.6- 6.0
P3818-PVE	H.265, H.264,MJPEG	Yes	1/1	Yes	MD, LG	5.6- 6.0
M4308-PLE	H.265, H.264,MJPEG	Yes	1/1	No	MD	5.6- 6.0
Q3819-PVE	H.265, H.264, MJPEG	Yes	1/1	Yes	MD	5.6- 6.0
Thermal cameras						
Q1290-E	H.264, MJPEG	Yes	2/0	No	MD	5.3 - 6.0
Q1910	H.264, MJPEG	Yes	2/0	No	MD	4.0.1 - 6.0
Q1910-E	H.264, MJPEG	Yes	2/0	No	MD	4.0.1 - 6.0
Q1921	H.264, MJPEG	Yes	2/0	No	MD	4.0.1 - 6.0
Q1921-E	H.264, MJPEG	Yes	2/0	No	MD	4.0.1 - 6.0
Q1922	H.264, MJPEG	Yes	2/0	No	MD	4.4 - 6.0
Q1922-E	H.264, MJPEG	Yes	2/0	No	MD	4.4 - 6.0
Q1931-E	H.264, MJPEG	Yes	2/0	No	MD	4.4 - 6.0
Q1932-E	H.264, MJPEG	Yes	2/0	No	MD	4.8.1 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
Q1941-E	H.264, MJPEG	Yes	2/0	No	MD,PD	4.8.1 - 6.0
Q1941-E PT Mount	H.264, MJPEG	No	0/0	No	MD,PD	5.2 - 6.0
Q1942-E	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
Q1951-E	H.265, H.264, MJPEG	Yes	1/1	No	MD, LG	5.6 - 6.0
Q1942-E PT Mount	H.264, MJPEG	Yes	2/0	No	MD,PD	5.2 - 6.0
Q2901-E	H.264, MJPEG	Yes	2/0	No	MD,PD	4.8.1 - 6.0
Q2901-E PT Mount	H.264	No	0/0	No	MD,PD	5.2 - 6.0
Q8721-E	H.264, MJPEG	Yes	0/0	Yes	MD	4.4 - 6.0
Q8722-E	H.264, MJPEG	Yes	0/0	Yes	MD	4.4 - 6.0
M5013-V	H.264, MJPEG	Yes	0/0	No	MD	4.8.1 - 6.0
M5014-V	H.264, MJPEG	Yes	0/0	No	MD	4.8.1 - 6.0
Q8752-E	H.265, H.264, MJPEG	Yes	2/2	Yes	MD, LG	5.4.1 – 6.0
Explosion Protected cameras						
XF40-Q1765	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
XP40-Q1765	H.264, MJPEG	No	0/0	No	MD	5.2 - 6.0
XF40-Q2901	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
XF60-Q2901	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
XP40-Q1942	H.264, MJPEG	No	0/0	Yes	MD	5.2 - 6.0
D201-S XPT Q6055	H.264, MJPEG	No	0/0	Yes	MD	5.3 - 6.0
XPT Q6055	H.264, MJPEG	No	0/0	Yes	MD	5.3 - 6.0
F101 - A XF P1367	H.264, MJPEG	No	0/0	Yes	MD	5.3 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
XF60 - Q1765	H.264, MJPEG	No	0/0	Yes	MD	5.3 - 6.0
ExCam XF Q1645	H.264, MJPEG	No	0/0	No	MD, PD	5.4.1 – 6.0
ExCam XF Q1785	H.264, MJPEG	No	0/0	Zoom	MD, PD, LG	5.4.1 – 6.0
ExCam XPT Q6075	H.265, H.264, MJPEG	No	0/0	Yes	LG	5.4.1 – 6.0
F101-A XF P1377	H.265, H.264, MJPEG	Yes	1/1	No	MD, PD, LG	5.4.1 – 6.0
XP40 – Q1785	H.264, MJPEG	No	0/0	Yes	MD, PD, LG	5.4.1 – 6.0
Audio I/O Box						
P8221	N/A	Yes	8/0	No	MD	4.4 - 6.0
Network Door Stations						
A8004-VE	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
A8105-E	H.264, MJPEG	Yes	4/0	Yes	MD	5.2 - 6.0
A8207-VE Mk 2	H.264, MJPEG	Yes	4/2	No	MD, LG	5.4.1 – 6.0
I8016-LVE	H.265, H.264, MJPEG	Yes	2/1	No	MD	5.4.1 – 6.0
Explosion Protected						
D101-A XF P3807	H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 - 6.0
D201-S XPT Q6075	H.265, H.264, MJPEG	No	0/0	No	LG	5.6 - 6.0
Excam XF M3016	H.264, MJPEG	No	0/0	No	MD, LG	5.4.1 - 6.0
Excam XF P1367	H.264, MJPEG	No	0/0	Yes	MD	5.4.1 - 6.0
F101-A XF Q1785	H.264, MJPEG	Yes	0/0	32x optical zoom	MD, PD, LG	5.4.1 - 6.0
VB-H45	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0
VB-M44	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0
VB-M50B	H.264, MJPEG	Yes	2/2	Yes	-	5.6 - 6.0

Table 23: Supported Axis devices

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Analytics	VideoEdge Versions Supported
VB-S30D Mk II	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S30VE	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S31D Mk II	H.264, MJPEG	Yes	1/1	Yes	-	5.6 - 6.0
VB-S910F	H.264, MJPEG	Yes	1/1	No	-	5.6 - 6.0
P3717-PLE	H.264,MJPEG	Yes	0/0	Yes	-	5.6 - 6.0
Generic						
All other models	DPC*	DPC*	DPC*	DPC*	MD	4.0.1 - 6.0

* DPC - depends on camera capability.

Note:

- For devices in I/O column which have one number present, for example 2, 4 or 8 the I/O ports are configurable. In instances where the I/O column has numbers similar to the following example, 1/1, 2/0, 2/2, the I/O ports are not configurable.
- Cameras which are listed as Tested and Certified have been extensively tested against VideoEdge. Those which are listed as Works as Designed should be assumed to work based on the VAPIX2/VAPIX3 version of the camera firmware, however they have not been tested or verified against VideoEdge. They may have limitations and issues.

Bosch

The VideoEdge camera handler is fully integrated with the Bosch communications line of IP cameras. VideoEdge is fully integrated with the cameras that use Bosch API version 3.0. As Bosch continues to release new cameras to the market, the VideoEdge camera handler provides a generic Bosch camera driver that can connect to, and is compatible with Bosch API version 3.0 camera.

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
AutoDome (Supported Firmware v15500552)				
VJR-821-ICCV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-811-ICCV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-821-IWCV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-811-IWCV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-821-ICTV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-811-ICTV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-821-IWTV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VJR-811-IWTV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
VG5-825-ECEV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
VG5-825-ETEV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
NBN (Supported Firmware v5950050)				
Dinion NBN-498-28	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-498-28V	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-498-28WV	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-498-28W	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-921-P	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-921-2P	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-921-IP	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-832V-P	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBN-832V-IP	H.264, MJPEG	Yes	2/0	4.2.1 - 6.0
Dinion NBC-265-P	H.264, MJPEG	Yes	1/0	4.2.1 - 6.0
AutoDome 700 (Supported Firmware v5.80.0625)				
VG5-713-CCE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG5-723-CCE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG5-713-ECE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG5-714-ECE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG5-723-ECE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG5-724-ECE2	H.264, MJPEG	Yes	2/0	4.3 - 6.0
VG4 AutoDome Series (Supported Firmware v5.72)				
VG4-100 Series	H.264, MJPEG	Yes	2/0	4.4 - 6.0
VG4-200 Series	H.264, MJPEG	Yes	2/0	4.4 - 6.0
VG4-300 Series	H.264, MJPEG	Yes	2/0	4.4 - 6.0
VG4-500i Series	H.264, MJPEG	Yes	2/0	4.4 - 6.0
MIC Series (Supported Firmware v25500593)				
MIC-IP-IP-Dynamic-7000-HD	H.264, MJPEG	No	4/0	4.8.0 - 6.0
Dinion IP (Supported Firmware v90500592)				
Dinion-IP-7000-HD	H.264, MJPEG	Yes	2/0	4.8.0 - 6.0
Encoder				

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
VIP-X1600 Series	H.264, MJPEG	Yes	4/0	5.1.0 - 6.0
VIDEOJET multi 4000	H.264, MJPEG	Yes	4/0	5.1.0 - 6.0
VIP X1 XF Series	H.264, MJPEG	Yes	2/0	5.1.0 - 6.0
CPP7.3				
VG5-713-CCE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
VG5-723-CCE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
VG5-713-ECE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
VG5-714-ECE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
VG5-723-ECE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
VG5-724-ECE2	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP 4000i	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP 5000i	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP starlight 7000i	H.264, MJPEG	No	0/0	5.2 - 6.0
DINION IP bullet 4000i	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP bullet 5000i	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP bullet 6000i	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP 4000i	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP 5000i	H.264, MJPEG	Yes	1/0	5.2 - 6.0
MIC IP starlight 7000i	H.264, MJPEG	Yes	5/0	5.2 - 6.0
MIC IP fusion 9000i	H.264, MJPEG	Yes	5/0	5.2 - 6.0
CPP7				
DINION IP starlight 6000	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP starlight 7000	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME IP starlight 6000	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME IP starlight 7000	H.264, MJPEG	Yes	2/0	5.2 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
DINION IP thermal 8000	H.264, MJPEG	Yes	2/0	5.2 - 6.0
Bosch NFN-70122-F0A	H.264, MJPEG	No	No	5.3 - 6.0
Bosch NFN-70122-F1A	H.264, MJPEG	No	No	5.3 - 6.0
Bosch NDE-8504-R (FLEXIDOME IP starlight 8000i)	H.264, MJPEG	Yes	2/0	5.3 - 6.0
CPP6				
DINION IP starlight 8000 12MP	H.264, MJPEG	Yes	2/0	5.2 - 6.0
DINION IP ultra 8000 12MP	H.264, MJPEG	Yes	2/0	5.2 - 6.0
DINION IP ultra 8000 12MP with C/CS mount telephotlens	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME IP panoramic 7000 12MP 180	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 7000 12MP 360	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 7000 12MP 180 IVA	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 7000 12MP 360 IVA	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 6000 12MP 180	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 6000 12MP 360	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 6000 12MP 180 IVA	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP panoramic 6000 12MP 360 IVA	H.264, MJPEG	No	0/0	5.2 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
CPP5				
VIP-X16XF-E	H.264, MJPEG	Yes	4/0	5.2 - 6.0
CPP4				5.2 - 6.0
AUTODOME IP 4000 HD	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP 5000 HD	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP 5000 IR	H.264, MJPEG	Yes	2/0	5.2 - 6.0
AUTODOME IP 7000 series	H.264, MJPEG	Yes	7/0	5.2 - 6.0
DINION HD 1080p	H.264, MJPEG	No	0/0	5.2 - 6.0
DINION HD 1080p HDR	H.264, MJPEG	Yes	2/0	5.2 - 6.0
DINION HD 720p	H.264, MJPEG	Yes	2/0	5.2 - 6.0
DINION IP imager 9000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP bullet 4000	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP bullet 5000	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP 4000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP 5000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP 5000 MP	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP starlight 7000 HD	H.264, MJPEG	Yes	2/0	5.2 - 6.0
EXTEGRA IP dynamic 9000	H.264, MJPEG	Yes	3/0	5.2 - 6.0
EXTEGRA IP starlight 9000	H.264, MJPEG	Yes	3/0	5.2 - 6.0
FLEXIDOME corner 9000 MP	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME HD 1080p	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME HD 1080p HDR	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME HD 720p	H.264, MJPEG	Yes	2/0	5.2 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
Vandal-proof FLEXIDOME HD 1080p	H.264, MJPEG	Yes	2/0	5.2 - 6.0
Vandal-proof FLEXIDOME HD 1080p HDR	H.264, MJPEG	Yes	2/0	5.2 - 6.0
Vandal-proof FLEXIDOME HD 720p	H.264, MJPEG	Yes	2/0	5.2 - 6.0
FLEXIDOME IP panoramic 5000	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP indoor 5000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP indoor 5000 MP	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP indoor 4000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP indoor 4000 IR	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP outdoor 4000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP outdoor 4000 IR	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP micro 5000 HD	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP micro 5000 MP	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP outdoor 5000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP outdoor 5000 MP	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP micro 2000 HD	H.264, MJPEG	No	0/0	5.2 - 6.0
FLEXIDOME IP micro 2000 IP	H.264, MJPEG	No	0/0	5.2 - 6.0
DINION IP bullet 4000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
DINION IP bullet 5000 HD	H.264, MJPEG	Yes	1/0	5.2 - 6.0
FLEXIDOME IP micro 2000	H.264, MJPEG	No	0/0	5.2 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
FLEXIDOME IP micro 2000 HD	H.264, MJPEG	No	0/0	5.2 - 6.0
TINYON IP 2000 family	H.264, MJPEG	Yes	0/0	5.2 - 6.0
MIC IP starlight 7000(MIC-7230-x5)	H.264, MJPEG	Yes	0/0	5.2 - 6.0
MIC IP starlight 7000 (MIC-7130-Px4xx)	H.264, MJPEG	Yes	0/0	5.2 - 6.0
AutoDome IP Starlight 7000 HD VG5-7230-EPC5	H.264, MJPEG	Yes	7/4	5.3 - 6.0
AutoDome IP Starlight 7000 HD VG5-7230-EPC5-K10	H.264, MJPEG	Yes	7/4	5.3 - 6.0
MIC-7522-Z30x	H.265, H.264, MJPEG	Yes	0/0	5.3 - 6.0
MIC-7522-Z30xR	H.265, H.264, MJPEG	Yes	0/0	5.3 - 6.0
MIC-7504-Z12xR	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
AUTODOME IP starlight 5000i	H.265, H.264, MJPEG	Yes	2/0	5.3 - 6.0
AUTODOME IP starlight 5000i IR	H.265, H.264, MJPEG	Yes	2/0	5.3 - 6.0
AUTODOME IP starlight 7000 HD	H.264, MJPEG	Yes	7/0	5.3 - 6.0
MIC IP ultra 7100i	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
MIC IP starlight 7100i	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NBN-73023-BA	H.264, MJPEG	Yes	2/0	5.3 - 6.0
MIC-7502-Z30x	H.265, H.264, MJPEG	Yes	2/0	5.3 - 6.0
FLEXIDOME IP micro 3000i				
NDV-3502-F02	H.265, H.264, MJPEG	Yes	1/0	5.3 - 5.4.1
NDV-3502-F03	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NDV-3503-F02	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0

Table 24: Supported Bosch cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
NDV-3503-F03	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
FLEXIDOME IP turret 3000i IR				
NTV-3502-F02L	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NTV-3502-F03L	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NTV-3503-F02L	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NTV-3503-F03L	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
FLEXIDOME IP 3000i IR				
NDE-3502-AL	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NDE-3503-AL	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
DINION IP 3000i IR				
NBE-3502-AL	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
NBE-3503-AL	H.265, H.264, MJPEG	Yes	1/0	5.3 - 6.0
Generic				
All other models	Dual Stream (H.264, MJPEG)	Yes	DPC*	4.4 - 6.0

* DPC - depends on camera capability

CBC

The VideoEdge camera handler is fully integrated with the CBC megapixel cameras. CBC cameras operating system firmware is continually evolving; check that your camera is running the most current firmware available.

Table 25: Supported CBC Cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
Fixed IP Cameras				
MP1A	MJPEG	No	0/0	4.0.1 - 6.0
MP1DN	H.264, MJPEG	No	0/0	4.0.1 - 6.0
MP2A	MJPEG	No	0/0	4.0.1 - 6.0
MP2DN	H.264, MJPEG	No	0/0	4.0.1 - 6.0

Table 25: Supported CBC Cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
MP3DN	H.264, MJPEG	No	0/0	4.0.1 - 6.0
MP5A	MJPEG	No	0/0	4.0.1 - 6.0
MP5DN	H.264, MJPEG	No	0/0	4.0.1 - 6.0
Indoor Dome Cameras				
MP8D-L4	MJPEG	No	0/0	4.0.1 - 6.0
Generic				
All other models	Dual Stream (H.264+MJPEG)	Yes	DPC*	4.0.1 - 6.0

* DPC - depends on camera capability

Dahua

This VideoEdge camera handler is fully integrated with the Dahua line of IP cameras. Dahua, generally, does not change the core API interface for their cameras. This VideoEdge camera handler is based on the Dahua core API package version, DAHUA_HTTP_API_FOR_IPC_V1.30. As Dahua continue to release new cameras there may be instances where specific Dahua cameras are not listed in these release notes. A generic Dahua camera handler is available for these cameras.

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
Fixed Box & Bullet						
IPC-HF3500	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3301	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3300	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3200	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3101	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3100	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF3110	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HFW3301C	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HFW3300	H.264, MJPEG	Yes	2/0	Yes	No	4.4 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HFW3300C	H.264, MJPEG	Yes	2/0	Yes	No	4.4 - 6.0
IPC-HFW3200C	H.264, MJPEG	Yes	2/0	Yes	No	4.4 - 6.0
IPC-HFW3200S	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HFW3101C	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HFW2100	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HFW3110	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HF81230E	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HFW81230E-Z	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HF8630F	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HF8331E	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HF8232F	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HF8231E	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HFW8630E-Z	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HFW8331E-Z	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW8232E-Z	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HFW8231E-Z	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
IPC-HF5431E	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HF5231E	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HFW5830E-Z	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW5431E-Z	H.264, MJPEG	No	2/0	Yes	Yes	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HFW5231E-Z	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW5830R-Z	H.264, MJPEG	Yes	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW5431R-Z	H.264, MJPEG	Yes	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW5231R-Z	H.264, MJPEG	Yes	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW4830E-S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW4431E-S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW4231E-S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW4431S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW4231S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW4431B-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HFW4231B-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HFW4431D-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HFW4231D-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDW4830EM-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDW4431EM-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDW4231EM-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HDW4431M	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDW4231M	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW2421R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW2421R-ZS-IRE6	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW2320R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW2320R-ZS-IRE6	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW2221R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW2221R-ZS-IRE6	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW2121R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW2121R-ZS-IRE6	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW2421R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW2320R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW2221R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDW2121R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HFW1420S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HFW1320S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW1220S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HFW1120S	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
Dome						
IPC-HDB3301	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3301-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3300	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3200	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3200-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HD3200	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3200C	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HDB3101	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3101-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDB3100	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HD3100	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HD2100	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HDB3110	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3301	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3301-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3300	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HDBW3200	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3200-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDW3200	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDW3200S	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HDBW3101	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3101-DI	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW3100	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDW3100	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDW2100	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0
IPC-HDBW3110	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-HDBW81230E-Z	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-HDBW8630E-Z	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDBW8331E-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW8232E-Z	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDBW8231E-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW5830E-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HDBW5431E-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW5231E-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW5830R-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW5431R-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW5231R-Z	H.264, MJPEG	Yes	1/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW4830E-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDBW4431E-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDBW4231E-AS	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
IPC-HDBW4431F-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW4231F-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDB4431C-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDB4231C-AS	H.264, MJPEG	Yes	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW2421R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW2421R- ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-HDBW2320R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW2320R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW2221R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW2221R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW2121R-VFS	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW2121R-ZS	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
IPC-HDBW1420E	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW1320E	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW1220E	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC-HDBW1120E	H.264, MJPEG	No	0/0	Yes	No	5.1.0 - 6.0
IPC with Motorized Lens						
IPC-HFW3202C	H.264, MJPEG	Yes	1/0	Yes	Yes	4.4 - 6.0
IPC-HDB3202	H.264, MJPEG	Yes	1/0	Yes	Yes	4.4 - 6.0
IPC-HDB3202-DI	H.264, MJPEG	Yes	1/0	Yes	Yes	4.4 - 6.0
IPC-HDBW3202	H.264, MJPEG	Yes	1/0	Yes	Yes	4.4 - 6.0
IPC-HDBW3202-DI	H.264, MJPEG	Yes	1/0	Yes	Yes	4.4 - 6.0
Home-use IPC						
IPC-K100	H.264, MJPEG	No	0/0	Yes	No	4.4 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-K100A	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
IPC-K100W	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
PTZ						
SD6583A-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6582A-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6582C-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD3282D-GN	H.264, MJPEG	Yes	2/0	Yes	Yes	4.4 - 6.0
SD6580-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6580C-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6380D-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	4.4 - 6.0
SD6983A-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6982C-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6982A-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6980C-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6980-HN	H.264, MJPEG	Yes	7/0	Yes	Yes	4.4 - 6.0
SD6AE830V-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD6AL830V-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD6AE230F-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD6AL230F-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD65F230F-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD6AE240V-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
SD6C230U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD60230U-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD60225U-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD60131U-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD60230U-HNI-SL	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD59230U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD59225U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD59131U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD50230U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD50225U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD50131U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD52C230U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD52C225U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD52C131U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD6C430U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD60430U-HNI	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
SD59430U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD50430U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD52C430U-HNI	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD49225T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
SD49220T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD49212T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD40212T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD42212T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD42C212T-HN	H.264, MJPEG	Yes	2/0	Yes	Yes	5.1.0 - 6.0
SD29204T-GN	H.264, MJPEG	Yes	0/0	Yes	Yes	5.1.0 - 6.0
SD22204T-GN	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
SD22204T-GN-W	H.264, MJPEG	No	0/0	Yes	Yes	5.1.0 - 6.0
SD29204T-GN-W	H.264, MJPEG	Yes	0/0	Yes	Yes	5.1.0 - 6.0
PTZ12230F-IRB-N	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
PTZ12240-IRB-N	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
PTZ12230F-LR8-N	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
PTZ12240-LR8-N	H.264, MJPEG	Yes	7/0	Yes	Yes	5.1.0 - 6.0
Panoramic						
IPC-EBW81230P	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-PFW8601-A180	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-EBW81200	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-EBW8600	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-EBW8600-IVC	H.264, MJPEG	Yes	2/0	Yes	No	5.1.0 - 6.0
IPC-EB5500	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0

Table 26: Supported Dahua cameras

Model	Codec Supported	Audio	I/O	EdgeBased MotionDetectionSupported	PTZ	VideoEdge Version Supported
IPC-EB5400	H.264, MJPEG	Yes	1/0	Yes	No	5.1.0 - 6.0
Encoder						
NVS0104HDC	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS0204HDC	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS0404HDC	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS0404HDC-A-F	H.264, MJPEG	Yes	8/0	Yes	Yes	5.1.0 - 6.0
NVS0804HDC-A-F	H.264, MJPEG	Yes	8/0	Yes	Yes	5.1.0 - 6.0
NVS1604HF-A-E	H.264, MJPEG	Yes	16/0	Yes	Yes	5.1.0 - 6.0
NVS0804HF-A-E	H.264, MJPEG	Yes	16/0	Yes	Yes	5.1.0 - 6.0
NVS0404HF-A-E	H.264, MJPEG	Yes	16/0	Yes	Yes	5.1.0 - 6.0
NVS0404HE-AS	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS0204HE-AS	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS0104HE-AS	H.264, MJPEG	Yes	4/0	Yes	Yes	5.1.0 - 6.0
NVS1604HDC-A	H.264, MJPEG	Yes	16/0	Yes	Yes	5.1.0 - 6.0
NVS0804HDC-A	H.264, MJPEG	Yes	8/0	Yes	Yes	5.1.0 - 6.0
NVS0404HDC-A	H.264, MJPEG	Yes	8/0	Yes	Yes	5.1.0 - 6.0
Generic						
All other models	H.264, MJPEG	DPC*	DPC*	Yes	No	4.4 - 6.0

* DPC - Depends on camera capability

exacqVision Corp

This VideoEdge camera handler is fully integrated with the exacqVision line of IP cameras. Generally, exacqVision does not change the core API interface for their cameras. This VideoEdge camera handler is based on the exacqVision core API package version IP Media Device

Management Protocol User Guide Version 2.0. As exacqVision continue to release new cameras there may be instances where specific exacqVision cameras are not listed in these release notes. A generic exacqVision camera handler is available for these unlisted cameras provided it supports the exacqVision CGI interface.

Table 27: Supported exacqVision cameras

Model	Codec Supported	Audio	I/O	VideoEdge Versions Supported
Encoders				
E-ADE1C	H.264, MJPEG, MP4V	Yes	1/0	4.5.1 - 6.0
E-ADE4C	H.264, MJPEG, MP4V	Yes	4/0	4.5.1 - 6.0
Generic				
All other models	Model Dependent [1]			4.5.1 - 6.0

The generic model is fully featured for unlisted models supporting dual video streaming, audio stream, PTZ, dry contact events and query device to discover camera capabilities. For specific models, the handler dynamically queries the capabilities from the camera.

FLIR

In this release the VideoEdge camera pack is fully integrated with the FLIR D, PT, F and FC series, multi sensor, pan tilt and fixed thermal security cameras.

The following cameras are supported with minimum camera firmware versionnexus-server-GD_v2.5.9.1 for F, PT and D series.

The following cameras are supported with minimum camera firmware version *nexus-server-GD_v2.5.27.9* for FC-S and FC-R series.

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
Fixed Cameras						
F-112	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-117	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-124	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-304	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
F-307	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-313	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-324	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-334	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-348	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-606	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-610	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-612	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-618	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-625	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-645	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
F-VIS	H.264, MJPEG, MPEG4	No	0/0	No	No	4.1 - 6.0
Outdoor Dome Cameras						
D-313	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
D-324	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
D-334	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
D-348	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
D-618	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
D-625	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
D-645	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
Multi-Sensor Pan Tilt Cameras						
PT-112	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-117	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-124	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-304	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-307	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-313	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-324	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-334	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-348	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
PT-602CZ	H.264, MJPEG	No	0/0	No	Yes	5.2 - 6.0
PT-606	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-610	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-612	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-618	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-625	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-645	H.264, MJPEG, MPEG4	No	0/0	No	Yes	4.1 - 6.0
PT-644 HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
PT-625 HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
PT-617 HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
PT-612 HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
PT-608 HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
PT-606Z HD	H.264, MJPEG	No	0/0	No	Yes	5.1.0 - 6.0
A310pt	H.264, MJPEG, MPEG4	No	0/0	Yes	Yes	5.1.0 - 6.0
Thermal Cameras						
FC-334-S	H.264, MJPEG, MPEG4	No	0/0	Yes	No	4.8.0 - 6.0
FC-324-R	H.264, MJPEG, MPEG4	No	0/0	Yes	No	4.8.0 - 6.0

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
FC-XXX-S	H.264, MJPEG, MPEG4	No	0/0	Yes	No	4.8.0 - 6.0
FC-XXX-R	H.264, MJPEG, MPEG4	No	0/0	Yes	No	4.8.0 - 6.0
FC-304 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-305 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-309 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-313 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-317 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-324 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-332 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-344 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-371 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-608 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-610 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-617 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0

Table 28: Supported FLIR cameras

Model	Codec Supported	Audio	I/O	Edge Based Supported	PTZ	VideoEdge Versions Supported
FC-625 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-632 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-644 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-669 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
FC-690 ID	H.264, MJPEG, MPEG4	No	1/0	Yes	No	5.1.0 - 6.0
Generic						
All other models	NA	No	No	No	No	4.1 - 6.0

Hanwha / Samsung

The VideoEdge camera handler is fully integrated with the Samsung communications line of IP. VideoEdge is fully integrated with cameras supporting Samsung API type 1 and Samsung API type 2 version 2.7.4. As Samsung continues to release new cameras to the market, the VideoEdge camera handler provides a generic Samsung camera driver that can connect to cameras supporting Samsung API version 2.7.4.

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
Encoders and Decoders							
SPE-100	H.264, MJPEG, MPEG4	Yes	1/0	Yes	Yes	No	4.2.1 - 6.0
SPE-101	H.264, MJPEG, MPEG4	No	0/0	Yes	Yes	No	4.4 - 6.0
SPE-110	H.264, MJPEG	No	0/0	Yes	Yes	No	5.3 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SPE-400B	H.264, MJPEG, MPEG4	No	0/0	Yes	Yes	No	4.4 - 6.0
SPE-400	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SPE-410	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.2 - 6.0
SPE-420	H.265, H.264, MJPEG	Yes	4/2	No	Yes	No	5.6 - 6.0
SPE-1600	H.264, MJPEG, MPEG4	No	0/0	Yes	Yes	No	4.4 - 6.0
SPE-1610	H.264, MJPEG	Yes	4/0	No	Yes	No	5.2 - 6.0
SPE-1620	H.265, H.264, MJPEG	Yes	16/4	No	Yes	No	5.6 - 6.0
Box Series Cameras							
PNB-A6001	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
PNB-A9001	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
SNB-9000	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-8000	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-7004	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-7002	H.264, MJPEG	Yes	1/0	No	Yes	No	4.4 - 6.0
SNB-7001	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SNB-7000	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNB-6011B	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-6010B	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-6005	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-6004	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SNB-6004F	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-6003	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SNB-5004	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-5003	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNB-5001	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0
SNB-5000	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNB-5000A	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SNB-3002	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNB-3000	H.264, MJPEG, MPEG4	Yes	2/0	No	Yes	No	4.2.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SNB-2000	H.264, MJPEG, MPEG4	Yes	2/0	No	Yes	No	4.2.1 - 6.0
SNZ-6320	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNZ-5200	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNZ- 6320	H.264, MJPEG	Yes	1/0	PTZ Zoom	Yes	No	5.3 - 6.0
TNB-9000	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
XNB-9002	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
XNB-8002	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
XNB-8000	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNB-6005	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNB-6001	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNB-6000	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Bullet Series Cameras							
LNO-6072R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNO-6070R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNO-6032R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNO-6030R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNO-6022R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
LNO-6020R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNO-6012R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNO-6010R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
PNO-9080R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
PNO-A6081R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PNO-A9081R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
QNO-8080R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-8030R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-8020R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-8010R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-7080R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-7030R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-7020R	H.265, H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-7010R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-6082R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-6072R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNO-6070R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-6032R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-6030R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-6022R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-6020R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
QNO-6012R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNO-6010R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
SNO-8081R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNO-7084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNO-7082R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SNO-7080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.4 - 6.0
SNO-6085R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
SNO-6084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SNO-6011	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0
SNO-5084R	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SNO-5080R	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.2.1 - 6.0
SNO-L5083R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNO-L6013R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNO-L6083R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
TNO-6320E	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
TNO-6320 E1W-Z	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0
TNO-6320 E2F-Z	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0
TNO-6320 E2WF-Z	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0
TNO-6320EP-Z	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0
TNP-6320 E1W-Z	H.264, MJPEG	No	0/0	Yes	No	No	5.3 - 6.0
TNP-6320 E1WF-Z	H.264, MJPEG	No	0/0	Yes	No	No	5.3 - 6.0
TNP-6320 E2W-Z	H.264, MJPEG	No	0/0	Yes	No	No	5.3 - 6.0
TNP-6320 E2WF-Z	H.264, MJPEG	No	0/0	Yes	No	No	5.3 - 6.0
TNU-6320	H.264, MJPEG	Yes	1/0	Yes	Yes	No	5.3 - 6.0
TNU-6320E	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
XNO-9082R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XNO-8082R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNO-8080R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
XNO-8040R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNO-8030R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNO-8020R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	5.3 - 6.0
XNO-6120R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNO-6085R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNO-6080R	H.264, MJPEG	No	1/0	No	Yes	No	4.8 - 6.0
XNO-6020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNO-L6080R	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNZ-6320	H.264, MJPEG	Yes	1/0	PTZ Zoom	Yes	No	5.3 - 6.0
Fixed Dome Series Cameras							
LND-6072R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LND-6070R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LND-6032R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LND-6030R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LND-6022R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LND-6020R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LND-6012R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LND-6010R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNV-6072R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
LNV-6070R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNV-6032R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNV-6030R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNV-6022R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNV-6020R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
LNV-6012R	H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
LNV-6010R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
PND-9080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
PND-A6081RF	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PND-A6081RV	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PND-A9081RF	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PND-A9081RV	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PNV-9080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
PNV-A6081R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
PNV-A9081R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
QND-8080R	H.265, H.264, MJPEG	No	1/0	No	Yes	No	5.3 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QND-8030R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-8020R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-8010R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-7080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-7030R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-7020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-7010R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-6082R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-6072R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-6070R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-6030R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-6021R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-6020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QND-6011R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QND-6010R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNE-7080RV	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNE-7080 RVW	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNE-6080 RV	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNE-6080 RVW	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-8080 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-8030 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-8020 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-8010 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-7080 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-7030 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-7020 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-7010 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-6082 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-6072 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-6070 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-6032 R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-6030 R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNV-6022R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-6020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
QNV-6012R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
QNV-6010R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-7084	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-7084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-7082	H.264, MJPEG	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-7082F	H.264, MJPEG	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-7080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SND-7080F	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SND-7061	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0
SND-7011	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0
SND-6084	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-6084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-6083	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SND-6011R	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0
SND-5084	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0
SND-5084R	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0
SND-5083	H.264, MJPEG, MPEG4	No	1/0	No	Yes	No	4.8 - 6.0
SND-5080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SND-5080F	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SND-5061	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0
SND-5011	H.264, MJPEG	No	1/0	No	Yes	No	4.4 - 6.0
SND-3082	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SND-3082F	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-3080	H.264, MJPEG, MPEG4	No	2/0	No	Yes	No	4.2.1 - 6.0
SND-3080C	H.264, MJPEG, MPEG4	No	2/0	No	Yes	No	4.2.1 - 6.0
SND-3080CF	H.264, MJPEG, MPEG4	No	2/0	No	Yes	No	4.2.1 - 6.0
SND-3080F	H.264, MJPEG, MPEG4	No	2/0	No	Yes	No	4.2.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SND-1080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.4 - 6.0
SND-L5013	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SND-L5083	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SND-L5083R	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
SND-L6012	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-L6013	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-L6013R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SND-L6083R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-8081R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-8080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-7084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-7080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNV-7080R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNV-6085R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SNV-6084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-6013	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNV-6012M	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNV-5084	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-5084R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.8 - 6.0
SNV-5080	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNV-5080R	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNV-5010	H.264, MJPEG	No	0/0	No	Yes	No	4.2.1 - 6.0
SNV-3120	H.264, MJPEG, MPEG4	Yes	1/0	No	Yes	No	4.2.1 - 6.0
SNV-3080	H.264, MJPEG, MPEG4	No	2/0	No	Yes	No	4.2.1 - 6.0
SNV-L5083R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNV-L6013R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
SNV-L6083R	H.264, MJPEG, MPEG4	Yes	0/0	No	Yes	No	4.8 - 6.0
XND-9082RF	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XND-9082RV	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XND-8082RF	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XND-8082RV	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XND-8081RV	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-8080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-8080RV	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-8040R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-8030R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-8020F	H.264, MJPEG	Yes	0/0	No	Yes	No	4.8 - 6.0
XND-8020R	H.264, MJPEG	Yes	1/0	No	Yes	No	5.2 - 6.0
XND-6085	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6085V	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6081F	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-6081FZ	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-6081RF	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-6081RV	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XND-6081V	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-6081Z	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-6080	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6080RV	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6080V	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6020R	H.264, MJPEG	Yes	1/0	No	Yes	No	5.2- 6.0.1
XND-6011F	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-6010	H.265, H.264, MJPEG	Yes	1/01	No	Yes	No	4.8 - 6.0
XND-6010R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XND-L6080	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3- 6.0
XND-L6080R	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XND-L6080RV	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XND-L6080V	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-9082R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XNV-8082R	H.265, H.264, MJPEG	Yes	1/1	Zoom	Yes	Yes	5.4.1 - 6.0
XNV-8080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNV-8040R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-8030R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-8020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6120	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6120R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6085	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6081	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
XNV-6081R	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
XNV-6080	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6080R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6022R	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-6022RM	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-6020R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6013M	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-6012	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-6012M	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
XNV-6011	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-6010	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNV-L6080	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNV-L6080R	H.264, MJPEG	Yes	0/0	No	Yes	No	5.2 - 6.0
PTZ Series Cameras							
PNP-9200RH	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
QNP-6230	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.3 - 6.0
QNP-6230	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.2 - 6.0
SNP-6321	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-6321H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-6320RH	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-6200	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.4 - 6.0
SNP-6200H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.4 - 6.0
SNP-5430	H.264, MPEG4	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-5430H	H.264, MPEG4	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-5321	H.264, MPEG4	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-5321H	H.264, MPEG4	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-5300	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.4 - 6.0
SNP-5300H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.4 - 6.0
SNP-5200	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-5200H	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-3430H	H.264, MJPEG, MPEG4	Yes	0/0	Yes	Yes	No	4.2.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SNP-3371	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-3371H	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.4 - 6.0
SNP-3371TH	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-3302	H.264, MJPEG, MPEG4	No	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-3302H	H.264, MJPEG, MPEG4	Yes	4/0	Yes	Yes	No	4.2.1 - 6.0
SNP-3120	H.264, MJPEG, MPEG4	Yes	2/0	Yes	No	No	4.2.1 - 6.0
SNP-3120V	H.264, MJPEG, MPEG4	No	0/0	Yes	No	No	4.2.1 - 6.0
SNP-3120VH	H.264, MJPEG, MPEG4	No	0/0	Yes	No	No	4.2.1 - 6.0
SNP-L5233	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-L5233H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.2 - 6.0
SNP-L6233	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-L6233H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP-L6233RH	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
SNP–6320H	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.3 - 6.0
XNP-9300RW	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNP-9250	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-9250R	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-8300RW	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-8250	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-8250R	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-6550RH	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.3 - 6.0
XNP-6400	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-6400R	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-6400RW	H.265, H.264, MJPEG	No	0/0	Yes	Yes	Yes	5.4.1 - 6.0
XNP-6370RH	H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.3 - 6.0
XNP-6321	H.265, H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.6 - 6.0
XNP-6321H	H.265, H.264, MJPEG	Yes	4/0	Yes	Yes	No	5.6 - 6.0
XNP-6320	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
XNP-6320H	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
XNP-6320HS	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNP-6120H	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
XNP-6040H	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
Fisheye Cameras							
PNF-9010R	H.264, MJPEG	Yes	1/01	No	Yes	No	4.8 - 6.0
PNF-9010RV	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
PNF-9010RVM	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
SNF-8010	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
SNF-8010VM	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNF-9010RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
XNF-9010RVM	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
XNF-8010	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - . 6.0
XNF-8010R	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNF-8010RV	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNF-8010RV_RVM	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNF-8010RVM	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
XNF-8010RW	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - . 6.0
XNF-8010VM	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - . 6.0
Multi-channel, Multi-sensor							
PNM-12082RVD	H.265, H.264, MJPEG	Yes (via SPM-4210)	Yes (via SPM-4210)	No	Yes	No	5.6- 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
PNM-9322 VQP	H.265, H.264, MJPEG	Yes	1/2	Yes	Yes	No	5.6 - 6.0
PNM-9321 VQP	H.265, H.264, MJPEG	Yes	1/2	Yes	Yes	No	5.6 - 6.0
PNM-9320 VQP	H.265, H.264, MJPEG	No	1/2	Yes	Yes	No	5.6 - 6.0
PNM-9085 RQZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
PNM-9084 QZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
PNM-9084 RQ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
PNM-9084 RQZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
PNM-9081 VQ	H.264, MJPEG	No	0/0	No	Yes	No	4.8 - 6.0
PNM-9080 VQ	H.264, MJPEG	No	0/0	No	Yes	No	4.8 - 6.0
PNM-9030 V	H.264, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
PNM-9022 V	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
PNM-9020 V	H.265, H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
PNM-9002 VQ	H.265, H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
PNM-9000 VD	H.264, H.265, MJPEG	No	0/0	No	Yes	No	5.3 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
PNM-9000 VQ	H.264, H.265, MJPEG	No	0/0	No	Yes	No	5.3 - 6.0
PNM-8082 VT (3ch)	H.265, H.264, MJPEG	No	0/0	Zoom	Yes	Yes	5.4.1 - 6.0
PNM-7082 RVD	H.265, H.264, MJPEG	Yes (via SPM-4210)	Yes (via SPM-4210)	No	Yes	No	5.6 -6.0
PNM-7002 VD (2 ch)	H.265, H.264, MJPEG	No	0/0	No	Yes	Yes	5.4.1 - 6.0
PNM-7000 VD	H.264, MJPEG	No	0/0	No	Yes	No	4.8 - 6.0
PNM-C7083RVD	H.265, H.264, MJPEG	Yes (via SPM-4210)	Yes (via SPM-4210)	No	Yes	No	5.6 - 6.0
PNM-C12083RVD	PNM-C12083RVD	Yes (via SPM-4210)	Yes (via SPM-4210)	No	Yes	No	5.4.1 - 6.0
Micro Pin-Hole Cameras							
TNB-6030	H.264, H.265, MJPEG	Yes	1/0	No	Yes	No	5.3 - 6.0
Corner Mount Cameras							
TNV-7010RC	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
TNV-7011RC	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
TNV-8010C	H.265, H.264, MJPEG	Yes	1/1	No	Yes	Yes	5.4.1 - 6.0
TNV-8010C	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
TNV-8011C	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
Q-Series							

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNB-8002	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.4.1 - 6.0
QNB-6002	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
QND-8080R	H.265, H.264, MJPEG	No	1/1	Yes	Yes	No	5.4.1 - 6.0
QND-8030R	H.265, H.264, MJPEG	No	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QND-8021	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QND-8020R	H.265, H.264, MJPEG	No	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QND-8011	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QND-8010R	H.265, H.264, MJPEG	No	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QND-7082R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
QNV-7082R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
QND-6082R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
QND-6082R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QND-6072R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QND-6072 R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QND-6032 R	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QND-6032 R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QND-6022 R	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QND-6022 R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6- 6.0
QND-6021	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/ Rotate only	Yes	No	5.4.1 - 6.0
QND-6012 R	H.265, H.264, MJPEG	Yes	1/1	Pan/Tilt/ Rotate only	Yes	No	5.4.1 - 6.0
QND-6012 R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6-6.0
QND-6011	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/ Rotate only	Yes	No	5.4.1 - 6.0
QND-7012 R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QND-7022 R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QND-7032 R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QNE-8021 R	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/ Rotate only	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNE-8011R	H.265, H.264, MJPEG	No	0/0	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QNF-9010	H.265, H.264, MJPEG	No	0/0	No	Yes	No	5.4.1 - 6.0
QNF-8010	H.265, H.264, MJPEG	No	0/0	No	Yes	No	5.4.1 - 6.0
QNO-7012R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QNO-7022R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QNO-7032R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QNO-7082R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6-6.0
QNO-8080R	H.265, H.264, MJPEG	No	1/1	PTZ Zoom	Yes	No	5.4.1 - 6.0
QNO-8030R	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.4.1 - 6.0
QNO-8020R	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.4.1 - 6.0
QNO-8010R	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.4.1 - 6.0
QNO-6082R	H.265, H.264, MJPEG	No	1/1	PTZ Zoom	Yes	No	5.4.1 - 6.0
QNO-6082R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNO-6072R	H.265, H.264, MJPEG	Yes	1/1	PTZ Zoom	Yes	No	5.4.1 - 6.0
QNO-6072R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNO-6032R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
QNO-6032R1		No	1/1	No	Yes	No	5.6- 6.0
QNO-6022R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
QNO-6022R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6- 6.0
QNO-6012R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
QNO-6012R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNP-6230H	H.265, H.264, MJPEG	Yes	4/2	Yes	Yes	No	5.4.1 - 6.0
QNP-6250	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6320	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6320H	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6250H	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6320R	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNP-6250R	H265, H264, MJPEG	No	1/1 (with NW I/O Box)	Yes	Yes	No	5.7 - 6.0
QNP-6230RH	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6230	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNP-6230H	H265, H264, MJPEG	Yes	4/2	Yes	Yes	No	5.7 - 6.0
QNV-8080R	H.265, H.264, MJPEG	No	1/1	Yes	Yes	No	5.4.1 - 6.0
QNV-6082R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
QNV-6082R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNV-6072R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
QNV-6072R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNV-6032R	H.265, H.264, MJPEG	Yes	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QNV-6032R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNV-6024R	H.265, H.264, MJPEG	Yes	0/0	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QNV-6023R	H.265, H.264, MJPEG	Yes	0/0	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
QNV-6022R	H.265, H.264, MJPEG	Yes	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QNV-6022R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNV-6012R	H.265, H.264, MJPEG	Yes	1/1	Pan/Tilt/Rotate only	Yes	No	5.4.1 - 6.0
QNV-6012R1	H.265, H.264, MJPEG	No	1/1	No	Yes	No	5.6 - 6.0
QNV-7012R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
QNV-7022R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
X-Series							
XNB-9003	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNB-9002	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
XNB-8003	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNB-8002	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
XNB-6003	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-9083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-9082RF	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XND-9082RV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8093RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-8083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-8082RF	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8082RV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8081FZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8081REV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8081RF	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8081RV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-8081VZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-6083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-6081F	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XND-6081FZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6081REV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6081RF	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6081RV	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6081V	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-6081VZ	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XND-C6083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XND-C7083RV	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNO-9083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNO-9082R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
XNO-8083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNO-8082R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.4.1 - 6.0
XNO-6123R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNO-6083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNO-C6083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-9083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-9082R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-8093R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-8083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-8082R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-8081R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-8081RE	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-8081Z	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-6083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-6081	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-6081R	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0

Table 29: Supported Samsung cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	Edge-Based Motion Detection	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
XNV-6081RE	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-6081Z	H.265, H.264, MJPEG	Yes	1/1	Yes	Yes	No	5.4.1 - 6.0
XNV-6123R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-C6083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNV-C7083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNO-C7083R	H.265, H.264, MJPEG	Yes	1/1	No	Yes	No	5.6 - 6.0
XNZ-L6320	H.265, H.264, MJPEG	Yes	1/1	PTZ Zoom	Yes	No	5.4.1 - 6.0
Generic							
All other models	Model dependent *	Yes*	Yes*	Yes*	Yes	No	4.2.1 - 6.0

* Generic model is full featured which support dual video streams, audio stream, PTZ, dry contact events, query device, Edge device motion detection, alarm out. For specific model, handler dynamic query capabilities from camera.

Hikvision Corp

Hikvision Corp

This VideoEdge camera handler is fully integrated with the Hikvision line of IP cameras. Hikvision, generally, does not change the core API interface for their cameras. The VideoEdge camera handler is based on the Hikvision core API package version, IP Media Device Management Protocol User Guide Version 2.0. As Hikvision continue to release new cameras there may be instances where specific Hikvision cameras are not listed in these release notes. A generic Hikvision camera handler is available for these unlisted cameras provided it supports the Hikvision CGI interface.

- MD = Motion Detection
- FD = Face Detection

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
Fixed Cameras						
DS-2CD2132 F-I(W)(S)	H.264, MJPEG, MP4V	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD4132 FWD-IZ	H.264, MJPEG, MP4V	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD2120 F-IWS	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD4135 F-IZ	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD753F-E(I)	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD853F-E(W)	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD793P F(NF)-E(I)	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD7264 FWD-E(I)Z(H)(S)	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD2H55 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2025 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2035 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2055 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2085 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2025 FHWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2125 FWD-I(S) [2]	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2125 FWD-IM	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2135 FWD-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2155 FWD-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2185 FWD-I	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
DS-2CD2125 FHWD-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2325 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2335 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2355 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2385 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2325 FHWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T25 FWD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T35 FWD-I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T55 FWD-I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T85 FWD-I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T25 FHWD-I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2625 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2635 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2655 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2685 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2725 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2735 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2755 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2785 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2H25 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
DS-2CD2H35 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2H85 FWD-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2935 FWD-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD2955 FWD-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2CD2023 G0-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2043 G0-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2123 G0-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2143 G0-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2323 G0-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2343 G0-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2623 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2643 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2723 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2743 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2H23 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2H43 G0-IZS	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2622 FWD-IZS	H.264, MJPEG	Yes	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2622 FWD-I(S)(Z) [2]	H.264, MJPEG	Yes	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2F22 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
DS-2CD2F42 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2F52 F-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2T22 WD-I3/I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T42 WD-I3/I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2T52-I3/I5/I8	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2022 WD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2042 WD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2052-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2122 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2142 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2152 F-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2322 WD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2342 WD-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2352-I	H.264, MJPEG	No	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2422 FWD-IW	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2442 FWD-IW	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2452 F-IW	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2522 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
DS-2CD2542 FWD-I(W)(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2552 F-I(S) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2642 FWD-I(S)(Z) [2]	H.264, MJPEG	Yes	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2652 F-I(S)(Z) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2722 FWD-I(S)(Z) [2]	H.264, MJPEG	Yes	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2742 FWD-I(S)(Z) [2]	H.264, MJPEG	Yes	0/0	No	MD,FD	4.6 - 6.0
DS-2CD2752 F-I(S)(Z) [2]	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD2412 FWD-IW	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD6414 FWD-10/20/ 30	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2CD6424 FWD-10/20/ 30	H.264, MJPEG	Yes	1/0	No	MD,FD	4.6 - 6.0
DS-2XM6612 (D)FWD-I	H.264, MJPEG	Yes	0/0	No	MD	4.6 - 6.0
DS-2XM6622 (D)FWD-I	H.264, MJPEG	Yes	0/0	No	MD	4.6 - 6.0
DS-2CD1031-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1041-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1131-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1141-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1331-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1341-I	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
DS-2CD1631 FWD-I(Z)	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1641 FWD-I(Z?	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1731 FWD-I(Z)	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1741 FWD-I(Z)	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1H31 WD-IZ	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
DS-2CD1H41 WD-IZ	H.264, MJPEG	No	0/0	No	MD	4.6 - 6.0
Thermal Cameras						
DS-2TD2136 T-15	H.264, MJPEG	Yes	2/0	No	MD	4.6 - 6.0
DS-2TD2136(T)	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
DS-2TD2166(T)	H.264, MJPEG, MPEG4	Yes	2/0	No	MD	4.6 - 6.0
DS-2TD2336	H.264, MJPEG	Yes	2/0	No	MD	4.6 - 6.0
DS-2TD2366	H.264, MJPEG	Yes	2/0	No	MD	4.6 - 6.0
DS-2TD4136	H.264, MJPEG, MPEG4	Yes	7/0	Yes	MD	4.6 - 6.0
DS-2TD4166	H.264, MJPEG, MPEG4	Yes	7/0	Yes	MD	4.6 - 6.0
People Counting Cameras						
iDS-2CD6810 F/C	H.264	No	1/0	No	No	4.6 - 6.0
iDS-2CD6810 F-IV/C	H.264	No	1/0	No	No	4.6 - 6.0
Fisheyes						
DS-2CD6362 F-IVS	H.264, MJPEG	Yes	1/0	No	MD	4.6 - 6.0
SpeedDome						
DS-2DF5284-A	H.264, MJPEG, MP4V	Yes	7/0	Yes	MD	4.6 - 6.0

Table 30: Supported Hikvision cameras

Model	Codec Supported	Audio	I/O	PTZ	Edge Based Analytics	VideoEdge Versions Supported
Encoder						
DS-6701HFI	H.264, MJPEG, MP4V	Yes	1/0	Yes	MD	4.6 - 6.0
DS-6704HFI	H.264, MJPEG, MP4V	Yes	4/0	Yes	MD	4.6 - 6.0
DS-6708HFI	H.264, MJPEG, MP4V	Yes	8/0	Yes	MD	4.6 - 6.0
Generic						
Generic Camera	Model Dependent					4.6 - 6.0

[1] Generic models are fully featured for unlisted models supporting video stream, audio stream, PTZ, dry contact events, Edge Based motion and query device to discover camera capabilities. For specific models, the handler dynamically queries the capabilities from the camera.

Panasonic Corp

The VideoEdge camera handler is fully integrated with the Panasonic line of IP cameras. Panasonic, generally, does not change the core API interface for their cameras. VideoEdge camera handler is based on Panasonic core API package version 1.28 which supports both WV and DG versions of the listed cameras. As Panasonic continues to release new cameras there may be instances where specific Panasonic cameras are not listed in the available camera pack. A generic Panasonic camera handler is available for these cameras.

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
GXE500	H.264, MJPEG, MPEG4	Yes	3/0	No	No	No	4.3 - 6.0
NW484	MJPEG, MPEG4	No	1/0	No	No	No	4.0.1 - 6.0
NW484S	MJPEG, MPEG4	No	1/0	No	No	No	4.0.1 - 6.0
NW502S	H.264, MJPEG, MPEG4	Yes	3/0	No	No	No	4.0.1 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SF332	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SF335	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SF336	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SF342	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SF346	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SW352	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.1 - 6.0
SW355	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
NF284	MJPEG, MPEG4	Yes	1/0	No	No	No	4.1 - 6.0
NF302	MJPEG, MPEG4	Yes	1/0	No	No	No	4.1 - 6.0
SP508	H.264, MJPEG	No	3/0	No	No	No	4.3 - 6.0
SF538	H.264, MJPEG	No	3/0	No	No	No	4.3 - 6.0
SF548	H.264, MJPEG	No	3/0	No	No	No	4.3 - 6.0
SW558	H.264, MJPEG	No	3/0	No	No	No	4.3 - 6.0
SP509	H.264, MJPEG	Yes	3/0	No	No	No	4.3 - 6.0
SF539	H.264, MJPEG	Yes	3/0	No	No	No	4.3 - 6.0
SF549	H.264, MJPEG	Yes	3/0	No	No	No	4.3 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SW559	H.264, MJPEG	Yes	3/0	No	No	No	4.3 - 6.0
SW152	H.264, MJPEG	No	0/0	No	No	No	4.3 - 6.0
SW155	H.264, MJPEG	No	0/0	No	No	No	4.3 - 6.0
SF132	H.264, MJPEG	No	0/0	No	No	No	4.3 - 6.0
SF135	H.264, MJPEG	No	0/0	No	No	No	4.3 - 6.0
NW960	MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
NW964	MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
NS950	MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
NS954	MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
NS202	MJPEG, MPEG4	Yes	1/0	Yes	No	No	4.0.1 - 6.0
NS202A	MJPEG, MPEG4	Yes	1/0	Yes	No	No	4.0.1 - 6.0
SC384	H.264, MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.1 - 6.0
SC385	H.264, MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
SC395	H.264, MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.0.1 - 6.0
SC386	H.264, MJPEG, MPEG4	Yes	3/0	Yes	No	No	4.3 - 6.0
SC396	H.264, MJPEG	Yes	3/0	Yes	No	No	4.3 - 6.0
ST162	H.264, MJPEG	Yes	1/0	Yes	No	No	4.3 - 6.0
ST165	H.264, MJPEG	Yes	1/0	Yes	No	No	4.3 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
SW172	H.264, MJPEG	Yes	1/0	Yes	No	No	4.3 - 6.0
SW174W	H.264, MJPEG	Yes	1/0	Yes	No	No	4.3 - 6.0
SW175	H.264, MJPEG	Yes	1/0	Yes	No	No	4.3 - 6.0
NP244	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
NP304	MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
NP502	H.264, MJPEG, MPEG4	Yes	3/0	No	No	No	4.0.1 - 6.0.
SP102	H.264, MJPEG	No	0/0	No	No	No	4.0.1 - 6.0
SP105	H.264, MJPEG	No	0/0	No	No	No	4.0.1 - 6.0
SP302	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.1 - 6.0
SP305	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SP306	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.0.1 - 6.0
SP304	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.3 - 6.0
SF334	H.264, MJPEG, MPEG4	Yes	1.0	No	No	No	4.3 - 6.0
SW314	H.264, MJPEG, MPEG4	No	1/0	No	No	No	4.3 - 6.0
SW316	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.3 - 6.0
SW316L	H.264, MJPEG, MPEG4	Yes	1/0	No	No	No	4.3 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-S1132	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1131	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1112	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1111	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1130V	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S1130VRJ	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S1110V	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S1110VRJ	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S2130	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S2110	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S1510	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-S2531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2531LN	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2531LTN	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2231L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1531LN	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1531LNJ	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1531LTN	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1531LTNJ	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-S2131L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S1511	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2511LN	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2211L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-S2111L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-V2530L	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-V1330L	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-V1170	H.264, MJPEG	Yes	2/0	Yes	Yes	No	4.9 - 6.0
NT304/ NT314	MPEG4, MJPEG	Yes	2/0	Yes	Yes	No	4.9 - 6.0
GXE100	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
DG-NF282	MPEG4, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
NP1000	MPEG4, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
NP1004	MPEG4, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
DG-SF334	H.264, MJPEG, MPEG4	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SW115	H.264, MJPEG	NA	3/0	Yes	Yes	No	4.9 - 6.0
BL-VP104	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
BL-VP104W	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
BL-VP101	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
WV-SW158	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-SF138	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFV781L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPV781L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV631L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV631LT	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN631L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR631L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV611L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN611L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR611L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN631	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN611	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW631L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW611	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN531	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW531AL	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW532	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-SPW511AL	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW310	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
WV-SPW312L	H.264, MJPEG	NA	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFN310	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SPN310	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFV310	H.264, MJPEG	NA	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR310	H.264, MJPEG	NA	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN311L	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV311	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN311	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR311	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN311	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN310	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV311A	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFR311A	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN311A	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN310A	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SPN311A	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPN310A	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SPW311AL	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-SW598	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW598J	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SC588	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SUD638	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397B	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397BJ	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397BH	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397A	H.264, MJPEG	Yes	3/01	Yes	Yes	Yes	4.9 - 6.0
WV-SW397AJ	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397AH	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397J	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SW397H	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SC387	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SC387A	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SC387H	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
BL-VT164	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
BL-VT164W	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-X6531N	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-X6531NJ	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0

Table 31: Supported Panasonic cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Detection Metadata	VideoEdge Versions Supported
WV-X6511N	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-X6511NJ	H.264, MJPEG	Yes	3/0	Yes	Yes	Yes	4.9 - 6.0
WV-SFV130	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFN130	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFV130M	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFV110	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFN110	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
WV-SFV110M	H.264, MJPEG	Yes	0/0	Yes	Yes	No	4.9 - 6.0
SW458	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
SF438	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SF448	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFV481	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
WV-SFN480	H.264, MJPEG	Yes	3/0	Yes	Yes	No	4.9 - 6.0
Generic							
All other models	Single Stream (H.264, MJPEG, MPEG4)	DPC*	DPC*	DPC*	DPC*	DPC*	4.3 - 6.0

* DPC - depends on camera capability

Pelco

Pelco

This VideoEdge camera handler is fully integrated with the Pelco line of IP cameras. Pelco, generally, does not change the core API interface for their cameras. This VideoEdge camera handler is based on the Pelco API released on July 31, 2013. As Pelco continue to release new cameras there

may be instances where specific Pelco cameras are not listed in these release notes. The Pelco camera handler identifies the camera capability dynamically when the specific camera is added to VideoEdge, and determines if the specific camera is supported or not. If the camera is supported, it will be added to VideoEdge successfully.

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
Box							
IL10	H.264	No	DPC*	No	No	No	4.4 - 6.0
IXS0	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IXES1 (Enh)	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IX10	H.264, MJPEG	No	DPC*	No	Yes	No	4.4 - 6.0
IXE10	H.264, MJPEG	No	DPC*	No	Yes	No	4.4 - 6.0
IXE11 (Enh)	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IXE20	H.264, MJPEG	No	DPC*	No	Yes	No	4.4 - 6.0
IXE21 (Enh)	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IX30	H.264, MJPEG	No	DPC*	No	Yes	No	4.4 - 6.0
IXE31 (Enh)	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IXE12	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXE22	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXE32	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXES1	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXE11	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
IXE21	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXE31	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXPS1	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXP11	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXP21	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXP31	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IXP51	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Bullet							
IBP Series	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
IBPS110	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBP1110	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBP219	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBP319	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBP519	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBE129	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBE229	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IBE329	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Dome							
IDS0	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
ID10	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
IDE10	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
IDE20	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
IDE20-P	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
IDE20-OV	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
ID30	H.264, MJPEG	DPC*	DPC*	No	Yes	No	4.4 - 6.0
VR Dome							
IWP121	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IWP221	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Micro Dome							
IJP121	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IJP221	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Ruggedized							
IES0	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0
IE10	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IE30	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IEE10	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IEE20	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IEE20-P	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IEE20-OV	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
EXF1230	H.264, MJPEG	No	4/0	No	Yes	No	4.8 - 6.0
Mini							
IMS0	H.264, MJPEG, MPEG4	Yes	DPC*	No	Yes	No	4.4 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
IMES1 (Enh)	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IM10	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IME11 (Enh)	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IME21 (Enh)	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IME31 (Enh)	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IMP	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
IMP121	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP221	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP321	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP521	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMPS110	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP1110	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP219	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP319	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMP519	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IME129	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IME229	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IME329	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMES19	H.264, MJPEG	Yes	1/0	No	No	No	4.8 - 6.0
IME119	H.264, MJPEG	Yes	1/0	No	No	No	4.8 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
IME219	H.264, MJPEG	Yes	1/0	No	No	No	4.8 - 6.0
IME319	H.264, MJPEG	Yes	1/0	No	No	No	4.8 - 6.0
IME3122	H.264, MJPEG	Yes	1/0	No	No	No	4.8 - 6.0
PTZ							
Spectra H.264	H.264, MJPEG	Yes	DPC*	Yes	No	No	4.4 - 6.0
Spectra HD 720p	H.264, MJPEG	DPC*	DPC*	Yes	No	No	4.4 - 6.0
Spectra HD 1080p 20X	H.264, MJPEG	DPC*	DPC*	Yes	No	No	4.4 - 6.0
Spectra HD 1080p 30X	H.264, MJPEG	DPC*	DPC*	Yes	No	No	4.4 - 6.0
Excite IP	H.264, MJPEG	No	DPC*	Yes	No	No	4.4 - 6.0
S6220	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
S6230	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
S6220L	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
S6230L	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
S6220-US	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
S6230-US	H.264, MJPEG	Yes	1/0	Yes	Yes	No	4.8 - 6.0
P1220	H.264, MJPEG	Yes	4/0	Yes	Yes	No	4.8 - 6.0
ES523L	H.264, MJPEG	No	0/0	Yes	Yes	No	4.8 - 6.0
ES5230	H.264, MJPEG	No	0/0	Yes	Yes	No	4.8 - 6.0
EXP1230	H.264, MJPEG	No	4/0	Yes	Yes	No	4.8 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
S6230-EG1	H.264, MJPEG	Yes	1/0	Yes	Yes	Yes	5.3 - 6.0
S5220-ESG0	H.264, MJPEG	Yes	1/0	Yes	Yes	Yes	5.3 - 6.0
Integrated PTZ							
Esprit SE IP	H.264, MJPEG	No	DPC*	Yes	No	No	4.4 - 6.0
Thermal							
TI3	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
TI6	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
Esprit TI3	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
Esprit TI6	H.264, MJPEG	Yes	DPC*	No	Yes	No	4.4 - 6.0
Panoramic (Multi Sensor Cameras)							
IMM12018	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMM12027	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
IMM12036	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
Encoder							
NET5401T	H.264, MJPEG	No	1/0	Yes	No	No	4.4 - 6.0
NET5402T	H.264, MJPEG	No	DPC	Yes	No	No	4.4 - 6.0
NET5404T	H.264, MJPEG	No	DPC*	Yes	Yes	No	4.4 - 6.0
NET5501	H.264, MJPEG	No	0/0	No	Yes	No	4.9 - 6.0
NET5501-I	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
NET5501-XT	H.264, MJPEG	Yes	1/0	No	Yes	No	4.8 - 6.0
NET5504	H.264, MJPEG	Yes	4/0	No	Yes	No	4.8 - 6.0

Table 32: Supported Pelco cameras

Model Series	Codec Supported	Audio	I/O	PTZ Supported	Edge-Based Motion Detection Supported	Edge-Based Motion Metadata Supported	VideoEdge Versions Supported
NET5508	H.264, MJPEG	Yes	8/0	No	Yes	No	4.8 - 6.0
NET5516	H.264, MJPEG	Yes	16/0	No	Yes	No	4.8 - 6.0
NET5516T	H.264, MJPEG	Yes	16/0	No	Yes	No	4.8 - 6.0

*DPC - depends on camera capability

For more information on the supported Pelco camera series refer to:

http://pdn.pelco.com/content/pelco-api-web-services-supported-pelco-products

Note: Some of the cameras with MPEG-4 format are not supported by the Pelco handler though they may appear in the Pelco developers network link. For example, camera model series like IP3701 and encoder models like NET5301T are not supported because both of these device types do not support dynamic query of device capability.

SONY

This version of the VideoEdge camera handler provides full integration with the SONY line of Video Encoders and IP cameras. SONY has a number of API (Application Programming Interface) camera handlers that communicate with their cameras. VideoEdge is fully integrated with third, fourth, fifth, and sixth generation SONY IP cameras. As SONY continues to release new cameras there can be instances where specific SONY cameras are not listed in the following table. A generic SONY camera handler is available in these instances.

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
Encoders							
SNT-EX 101	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNT-EX 101E	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNT-EX 104	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNT-EP 104	H.264, MJPEG, MP4V	Yes	0/0	No	No	No	4.0.1 - 6.0
SNT-EP 154	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNT-EX 154	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
Fixed Cameras							
SNC-CH110	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH115	H.264, MJPEG, MP4V	No	1/0	No	No	No	5.2 - 6.0
SNC-CH120	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH135	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	5.2 - 6.0
SNC-CH140	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-CH160	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH180	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-CH210	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH220	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH240	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-CH260	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-CH280	H.264, MJPEG, MP4V	Yes	0/0	No	No	No	4.0.1 - 6.0
SNC-CM120	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-CS20	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-CS50N	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-CS50P	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-EM520	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.3 - 6.0
SNC-EM521	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.3 - 6.0
SNC-VB630	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB635	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB600	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB600B	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB632D	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB640	H.264, MJPEG	Yes	2/0	No	Yes	Yes	5.2 - 6.0
SNC-VB642	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VB642D	H.264, MJPEG	No	2/0	No	Yes	Yes	5.2 - 6.0
SNC-VB770	H.264, MJPEG	Yes	2/0	No	Yes	Yes	5.1.0 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-EB520	H.264, MJPEG, MP4V	No	1/0	No	No	No	4.3 - 6.0
SNC-EB600	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB600B	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB602R	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB630	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB630B	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB632R	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EB640	H.264, MJPEG	Yes	0/0	No	Yes	Yes	5.2 - 6.0
SNC-EB642R	H.264, MJPEG	Yes	0/0	No	Yes	Yes	5.2 - 6.0
SNC-CX600	H.264, MJPEG	Yes	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-CX600W	H.264, MJPEG	Yes	0/0	No	Yes	Yes	4.8.1 - 6.0
Mini Dome Cameras							
SNC-DH110	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH110T	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH120	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH120T	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH140	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-DH140T	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DH160	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH180	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DH210	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH210T	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH220	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH220T	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH240	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DH240T	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DH260	H.264, MJPEG, MP4V	No	0/0	No	No	No	4.0.1 - 6.0
SNC-DH280	H.264, MJPEG, MP4V	Yes	0/0	No	No	No	4.0.1 - 6.0
SNC-DS10	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DS60	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DM110	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DM160	MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-DF50N	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DF50P	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DF80N	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DF80P	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DF85N	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-DF85P	H.264, MJPEG, MP4V	Yes	1/0	No	No	No	4.0.1 - 6.0
SNC-VM600	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM600B	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM601	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM601B	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM602R	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM630	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM631	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM632R	H.264, MJPEG	Yes	2/0	No	Yes	Yes	4.8.1 - 6.0
SNC-VM641	H.264, MJPEG	Yes	2/0	No	Yes	Yes	5.2 - 6.0
SNC-VM642R	H.264, MJPEG	Yes	2/0	No	Yes	Yes	5.2 - 6.0
SNC-VM772R	H.264, MJPEG	Yes	2/0	No	Yes	Yes	5.1.0 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-EM632RC	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM600	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM601	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM602RC	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM630	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM631	H.264, MJPEG	No	0/0	No	Yes	Yes	5.2 - 6.0
SNC-EM632R	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-EM641	H.264, MJPEG	Yes	0/0	No	Yes	Yes	5.2 - 6.0
SNC-EM642R	H.264, MJPEG	Yes	0/0	No	Yes	Yes	5.2 - 6.0
SNC-XM631	H.264, MJPEG	No	1/0	No	Yes	Yes	4.8.1 - 6.0
SNC-XM632	H.264, MJPEG	Yes	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-XM636	H.264, MJPEG	Yes	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-XM637	H.264, MJPEG	No	0/0	No	Yes	Yes	4.8.1 - 6.0
SNC-HM662	H.264, MJPEG	No	1/0	No	Yes	Yes	4.8.1 - 6.0
PTZ Dome							
SNC-RS44N	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RS44P	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RS84N	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-RS84P	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RS86N	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RS86P	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RH124	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RH164	H.264, MJPEG, MP4V	Yes	4/0	No	No	No	4.0.1 - 6.0
SNC-RX530N	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-RX530P	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-RX550N	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-RX550P	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-RX570N	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-RX570P	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.0.1 - 6.0
SNC-EP550	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0
SNC-EP580	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0

Table 33: Supported SONY cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Based Motion Detection Supported	Edge Based Motion Detection Metadata	VideoEdge Versions Supported
SNC-ER250/ ER521	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0
SNC-EP520/ EP521	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0
SNC-ER550	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0
SNC-ER580	H.264, MJPEG, MP4V	Yes	2/0	No	No	No	4.3 - 6.0
SNC-ER585	H.264, MJPEG, MP4V	Yes	2/0	No	Yes	No	5.2 - 6.0
SNC-ER585H	H.264, MJPEG, MP4V	Yes	2/0	No	Yes	No	5.2 - 6.0
SNC-WR600	H.264, MJPEG	Yes	4/0	Yes	Yes	Yes	4.8.1 - 6.0
SNC-WR602C	H.264, MJPEG	Yes	4/0	Yes	Yes	Yes	4.8.1 - 6.0
SNC-WR630	H.264, MJPEG	Yes	4/0	Yes	Yes	Yes	4.8.1 - 6.0
SNC-WR632C	H.264, MJPEG	Yes	4/0	Yes	Yes	Yes	4.8.1 - 6.0
Generic							
6th generation models	DPC*	DPC*	DPC*	DPC*	DPC*	DPC*	4.8.1 - 6.0
All other models	Dual Stream (H.262, MJPEG, MP4V)	No	0/0	No	No	No	4.3 - 6.0

Vivotek Corp.

The VideoEdge camera handler is fully integrated with the Vivotek line of IP cameras. Vivotek generally does not change the core API interface for their cameras. The VideoEdge camera handler is based on Vivotek API URL Command Document for All Series Version 1.4a, which supports the following listed cameras. As Vivotek continues to release new cameras, there may be instances

where specific Vivotek cameras are not listed in the supported camera list. A generic Vivotek camera handler is available for these cameras.

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
Encoders					
VS8801	H.264, MPEG4, MJPEG	Yes	8/0	No	4.3 - 6.0
Fisheye Cameras					
FE8171	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
FE8171V	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
FE8172	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
FE8172V	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
FE8174	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE8174V	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE8180	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FE8181	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE8181V	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE8182	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FE9181-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE9381-EHV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FE9182-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
AF5127	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
AF5127V	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
SF8172	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
SF8172V	H.264, MJPEG	Yes	1/0	No	4.3 - 6.0
FE9391	H.264, MJPEG	No	0/0	No	5.3- 6.0
FE9191	H.264, MJPEG	No	0/0	No	5.3 - 6.0
Fixed Minidome Cameras					
FD8135H	H.264, MPEG4, MJPEG	Yes	3/0	No	4.3 - 6.0
FD8136	H.264, MPEG4, MJPEG	Yes	1/0	No	4.3 - 6.0
FD8136-F2	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8137H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8137HV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8138-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
FD8152V-F2	H.264, MJPEG	No	1/0	No	4.8.1 - 6.0
FD8154-F2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8154V-F2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8155H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD816B-HF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD816B-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD816C-HF2	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
FD8164-F2	H.264, MJPEG	No	1/0	No	4.8.1 - 6.0
FD8164V-F2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8165H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8166	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8166A	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8167	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8167A	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FD8168	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
FD8169	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
FD8169A	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FD8171	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8173-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8181	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8182-T	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8182-F2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8335H	H.264, MPEG4, MJPEG	Yes	3/0	No	4.3 - 6.0
FD8338-HV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8355HV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8355EHV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD836B-HTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD836B-EHTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD836B-HVF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD836B-EHVF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8365HV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8365EHV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8367-V	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8367-TV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8367A-V	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FD8369A-V	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
FD8371V	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
FD8371EV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8373-HV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8373-EHV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8381-EV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8382-TV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8382-ETV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8382-VF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD8382-EVF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9171-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9181-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9371-HTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9371-EHTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9381-HTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9381-EHTV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
FD9166-HN	H.264, MJPEG	Yes	1/0	No	5.3 - 6.0
FD9187-HT-A	H.264, MJPEG	Yes	1/0	No	5.3 - 6.0
IT9389-H	H.264, MJPEG	Yes	1/0	No	5.3 - 6.0
Bullet Cameras					
IB8168	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
IB8338-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8338-HR	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8354-C	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8367	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8367A	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
IB8367-R	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8367-RT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8367-T	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8369	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
IB8369A	H.264, MJPEG	No	0/0	No	4.8.1 - 6.0
IB836B-EHF3	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB836B-EHT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB836B-HF3	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB836B-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8373-EH	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8381	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8381-E	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8382-EF3	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8382-ET	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
IB8382-F3	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB8382-T	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB9371-EHT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB9371-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB9381-EHT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IB9381-HT	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8130	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8130W	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8131	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8131W	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8155HP	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP8172	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8172P	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8336W	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8337H-C	H.264, MJPEG	No	1/0	No	4.8.1 - 6.0
IP8355EH	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8355H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8362	H.264, MPEG4, MJPEG	Yes	1/0	No	4.3 - 6.0
IP8365EH	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8365H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8371	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8371E	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP9167-HP	H.264, MJPEG	Yes	1/0	No	5.3 - 6.0
Box Cameras					
IP816A-HP	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP816A-LPC	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP8165HP	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP8166	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP9171-HP	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
IP9181-H	H.264, MJPEG	Yes	3/0	No	4.8.1 - 6.0
Mini Box Cameras					
IP8152	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8152-F4	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
IP8173H	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
180 Panoramic Cameras					
CC8130	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
CC8370-HV	H.264, MJPEG	Yes	0/0	No	4.8.1 - 6.0
MS8391-EV	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
CC9381-HV	H.264, MJPEG	No	0/0	No	5.3 - 6.0
MS9321-EHV	H.264, MJPEG	No	0/0	No	5.4 - 6.0
Mobile Dome Cameras					
MD8531H	H.264, MPEG4, MJPEG	Yes	1/0	No	4.8.1 - 6.0
MD8563-EH	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
MD8563-EHF2	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
PTZ Cameras					
SD8311E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8312E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8313E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8321E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8322E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8323E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8333-E	H.264, MPEG4, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD8362E	H.264, MPEG4, MJPEG	Yes	3/0	Yes	4.3 - 6.0
SD8363E	H.264, MPEG4, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD8364E	H.264, MPEG4, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD9161-H	H.264, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD9361-EHL	H.264, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD9362-EH	H.264, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD9362-EHL	H.264, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
SD9364-EHL	H.264, MJPEG	Yes	4/0	Yes	4.8.1 - 6.0
PZ8111	H.264, MPEG4, MJPEG	Yes	1/0	Yes	4.3 - 6.0

Table 34: Supported Vivotek cameras and encoders

Model	Codec Supported	Audio	I/O	PTZ	VideoEdge Versions Supported
PZ8111W	H.264, MPEG4, MJPEG	Yes	1/0	Yes	4.3 - 6.0
PZ8121	H.264, MPEG4, MJPEG	Yes	1/0	Yes	4.3 - 6.0
PZ8121W	H.264, MPEG4, MJPEG	Yes	1/0	Yes	4.3 - 6.0
PD8136	H.264, MPEG4, MJPEG	Yes	1/0	Yes (Pan Only)	4.8.1 - 6.0
SD9366-EH/ EHL/EH-v2	H.264, MJPEG	No	0/0	Yes	5.3 - 6.0
SD9374-EHL	H.264, MJPEG	No	0/0	Yes (Zoom only)	5.3 - 6.0
Split Type Camera Systems					
VC8101	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
VC8101_CU8161-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
VC8101_CU8163-H	H.264, MJPEG	Yes	1/0	No	4.8.1 - 6.0
VC8201	H.264, MJPEG	Yes	2/0	No	4.8.1 - 6.0
Multi-Sensor					
MA9321-EHTV	H.264, MJPEG	No	0/0	No	5.3 - 6.0
Generic					
All other models	Model Dependent	Generic Reduced Functionality		All other models	4.3 - 6.0

ONVIF

3S (ONVIF)

3S (ONVIF)

Table 35: Supported 3S cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
3S N9071	H.264, MJPEG	Yes	0/0	No	No	4.6 - 6.0

Arecont Vision (ONVIF)

ⓘ **Note:** The ONVIF camera handler does not support relays.

Table 36: Supported Arecont Vision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	Edge Motion Detection Supported	VideoEdge Version Supported	Firmware Versions Tested Against
AV12CPD-236	H.264	Yes	Yes	Yes	5.9 - 6.0	
SurroundVideo Omni Series						
AV12176DN-08	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV12176DN-28	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV12176DN-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV20175DN-08	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV20175DN-28	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
AV20175DN-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65200
MicroDome G2 Series						
AV1555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV1555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV1555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV1555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2556DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2556DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV2556DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2556DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269

Table 36: Supported Arecont Vision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	Edge Motion Detection Supported	VideoEdge Version Supported	Firmware Versions Tested Against
AV3555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3556DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3556DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV3556DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3556DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV5555DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV5555DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65269
AV5555DN-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV5555DN-S-NL	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
MegaVideo G5 Series						
AV2215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV2216PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269 WDR
AV3215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV3216PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269WDR
AV5215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
AV10215PM-S	H.264, MJPEG	No	1/1	Yes	5.9 - 6.0	65269
ConteraIP Omni LX						
AV20476DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412

Table 36: Supported Arecont Vision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	Edge Motion Detection Supported	VideoEdge Version Supported	Firmware Versions Tested Against
AV20476DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV8476DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV8476DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
ConteraIP MicroDome Duo						
AV10856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV16856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV4856DN-28	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV10856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65412
AV16856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
AV4856DN-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65413
ConteraIP Outdoor Dome Series						
AV5456PMIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	71501
ConteraIP MicroDome Series						
AV2756DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DNIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DN-F	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DNIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV5756DNIR-S-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DN-F-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
AV2756DNIR-S-NL	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	65351
ConteraIP Bullet Series						

Table 36: Supported Arecont Vision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	Edge Motion Detection Supported	VideoEdge Version Supported	Firmware Versions Tested Against
AV5426PMIR-S	H.264, MJPEG	Yes	1/1	Yes	5.9 - 6.0	71501
Contera Dome Series						
AV05CLD-200	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV05CID-201	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV05CID-200	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV02CID-200	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV02CID-201	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	
AV02CLD-200	H.264, MJPEG	Yes	1/1	Yes	5.4.1 - 6.0	

Avigilon (ONVIF)

Avigilon (ONVIF)

Supported Avigilon cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
1.0MP 1.0-H3-FD1	H.264, MJPEG	Yes	No	Yes*	No	4.6 - 6.0
2.0MP 2.0-H3-D1	H.264, MJPEG	Yes	No	Yes*	No	4.6 - 6.0
2.0W-H3PTZ-DP20(510103)	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0
2.0-H3-DO1-IR(513228)	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0
2.0-H3-D1 (1790384)	H.264, MJPEG	Yes	No	No	No	5.2.0 - 6.0
2.0-H3M-DO1(510587)	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0
5.2.0 - 6.0-H3-D1-IR(473461)	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
3.0W-H3-D1	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0
3.0C-H3A-BO1-IR	H.264, MJPEG	Yes	No	Yes*	No	4.7 - 6.0
5.0-H3-D1(1472716)	H.264, MJPEG	Yes	No	No	No	5.2.0 - 6.0
6.0L-H4F-DO1-IR(136451)	H.264, MJPEG	Yes	No	No	No	5.2.0 - 6.0
12W-H3-4MH-DO1-B(1607015)	H.264	Yes	No	No	No	5.2.0 - 6.0
12.0-H4F-D01-IR(133895)	H.264	Yes	No	No	No	5.2.0 - 6.0
1.0C-H4PTZ-DP45	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
2.0C-H4PTZ-DP30	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
3.0C-H4VI-RO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
2.0C-H4SL-D1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
H3PTZ-DP20	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
1.0-H4PTZ-DC45	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
2.0-H4PTZ-DC30	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
1.0C-H4PTZ-DC45	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
2.0C-H4PTZ-DC30	H.264	Yes	1/0	Yes	Yes	5.3 - 6.0
1.3C-H4SL-D1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
1.3C-H4SL-DO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
2.0C-H4SL-D1	H.264	Yes	1/0	No	Yes	5.3 - 6.0
2.0C-H4SL-DO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
3.0C-H4SL-D1	H.264	Yes	1/0	No	Yes	5.3 - 6.0
3.0C-H4SL-D1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
3.0C-H4SL-DO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
1.3C-H4SL-BO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
2.0C-H4SL-BO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
3.0C-H4SL-BO1-IR	H.264	Yes	1/0	No	Yes	5.3 - 6.0
20C-H4A-4MH-360	H.264	Yes	1/0	No	Yes	5.3 - 6.0
9W-H3-3MH-DO1-B	H.264	Yes	1/0	No	Yes	5.3 - 6.0
15C-H4A-3MH-270	H.264	Yes	1/0	No	Yes	5.3 - 6.0
12C-H4A-4MH-360	H.264	Yes	1/0	No	Yes	5.3 - 6.0
12W-H3-4MH-D01-B	H.264	Yes	1/0	No	Yes	5.3 - 6.0
9C-H4A-3MH-270	H.264	Yes	1/0	No	Yes	5.3 - 6.0
640S-H4A-THC-BO50	H.264	Yes	1/0	No	Yes	5.3 - 6.0
2.0C-H5SL-D1	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
4.0C-H5A-D1-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
5.0C-H5A-BO2-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
5.0C-H5M-DO1-IR	H.264	Yes	No	No	Yes	5.4.1 - 6.0
6.0C-H5DH-D1-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
8.0C-H5A-BO1-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
8.0C-H5A-FE-DO1-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
12C-H4A-4MH-360	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
15C-H4A-3MH-270	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
20C-H4A-4MH-360	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
2.0C-H4A-D1-IR-B	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
3.0C-H4A-D1-IR-B	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
2.0C-H4IRPTZDP30-WP	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
12.0-H4F-DO1-IR	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
15C-H4A-3MH-180	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
24C-H4A-3MH-180	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0
32C-H4A-4MH-360	H.264	Yes	1/0	Yes*	Yes	5.4.1 - 6.0

*DPC- Depend on camera capability

Canon (ONVIF)

Canon (ONVIF)

Supported Canon cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
Canon VB-H43	H.264, MJPEG	Yes	No	Yes	No	4.6 - 6.0

Cox (ONVIF)

Cox (ONVIF)

Supported Cox cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
CG320IP	H.264	Yes	Yes	Yes	Yes	5.4.1 - 6.0

Digital Watchdog (ONVIF)

Digital Watchdog (ONVIF)

Supported Digital Watchdog cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
DWC-MF21M4TIR	H.264, MJPEG, MPEG4	No	No	No	No	4.6 - 6.0
DWC-MV421D	H.264, MJPEG, MPEG4	Yes	No	No	No	4.6 - 6.0

Ganz (ONVIF)

Ganz (ONVIF)

Supported Ganz cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
Ganz ZN-M2AF	H.264, MJPEG	No	0/0	No	No	4.6 - 6.0

Hikvision (ONVIF)

Hikvision (ONVIF)

Supported Hikvision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
Hikvision DS-2DF5274-A	H.264, MJPEG	Yes	1/0	Yes	No	4.4 - 6.0
Hikvision DS-2CD2012-I	H.264, MJPEG	No	0/0	No	No	4.4 - 6.0

Huawei (ONVIF)

Huawei (ONVIF)

Supported Huawei cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ	EdgeBasedMotionDetectionSupported	EdgeBasedMotionDetection Metadata	VideoEdge Versions Supported
Fixed Bullet							
IPC6224-VRZ	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0
IPC6225-VRZ	H.264, MJPEG	No	0/0	No	No	No	5.3 - 6.0

Honeywell (ONVIF)

Honeywell (ONVIF)

Supported Honeywell cameras using the ONVIF camera handler

Model	Codec supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
H4W2GR1	H.264, MJPEG	Yes	2/1	No	Yes	5.6 - 6.0
HDZ22HD	H.264, MJPEG	Yes	4/2	Yes	Yes	5.6 6.0

Illustra (ONVIF)

Illustra (ONVIF)

Supported Illustra cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ	EdgeBasedMotionDetectionSupported	EdgeBasedMotionDetection Metadata	VideoEdge Versions Supported
Illustra-Flex-16mp-Multi-Sensor	H.264, MJPEG	Yes	1/0	No	Yes	Yes	5.3 - 6.0
Thermal Cameras							
IPT05-B29-BIA3	H.264, MJPEG	No	0	No	Yes	No	IPT05-B29-BIA3
IPT05-B29-BI03	H.264, MJPEG	No	0	No	Yes	No	IPT05-B29-BI03

*DPC- Depend on camera capability

IQinVision (ONVIF)

IQinVision (ONVIF)

IQinVision cameras are branded as IQeye products

Supported IQinVision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
IQ862N	H.264	No	0/0	No	No	5.3 - 6.0

LG (ONVIF)

LG (ONVIF)

Supported LG cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ	EdgeBasedMotionDetectionSupported	EdgeBasedMotionDetection Metadata	VideoEdge Versions Supported
LNB5100	H.264, MJPEG	Yes	0/0	No	No	No	5.3 - 6.0

Mobotix (ONVIF)

Mobotix (ONVIF)

Supported Mobotix cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
v26 Indoor Dome	H.264, MJPEG	No	0/0	No	No	5.2 - 6.0

Oncam (ONVIF)

Oncam (ONVIF)

Supported Oncam cameras using the ONVIF camera handler

Model	Codec supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
EVO-12NCD	H.264, MJPEG	No	0/0	No	No	5.2 - 6.0
EVO-05NCD	H.264	Yes	0/0	No	Yes	5.2 - 6.0
EVO-05NID	H.264	Yes	1/0	No	Yes	5.3 - 6.0
EVO-180-WID	H.264	Yes	1/0	No	Yes	5.3 - 6.0
EVO-12NID	H.264	Yes	1/0	No	Yes	5.3 - 6.0
EVO-05xxD	H.264, MJPEG	Yes	0/0	No	Yes	5.6 - 6.0

Predator Vision 360 HD (ONVIF)

Predator Vision 360 HD (ONVIF)

Predator HD Camera firmware must be PREDATOR_HD_1_16_03 and above for the listed features to work

Supported Predator Vision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
Predator HD	H.264, MJPEG, MPEG4	No	0/0	Yes	No	4.6 - 6.0

Redvision (ONVIF)

Redvision (ONVIF)

Supported Redvision cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
RVX-IP30-IRWL-W	H.264, MJPEG, MPEG4	No	16/0	Yes	No	4.6 - 6.0

Snapshot not supported for Redvision cameras.

SONY (ONVIF)

SONY (ONVIF)

Contact support for information about the use of these cameras.

Supported Sony cameras and encoders using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
SNC-EB632R	H.264, MJPEG	No	0/0	No	No	4.0 - 6.0
SNC-EM630	H.264, MJPEG	No	0/0	No	No	4.0 - 6.0
SNC-VM602R	H.264, MJPEG	Yes	0/0	No	No	4.0 - 6.0
SNC-WR600	H.264, MJPEG	Yes	0/0	Yes	No	4.0 - 6.0
SNC-EM632RC	H.264, MJPEG	No	0/0	No	No	4.0 - 6.0

Truen (ONVIF)

Truen (ONVIF)

Supported Truen cameras and encoders using the ONVIF camera handler

Manufacture & Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
Encoder TCS3000	H.264, MJPEG	DPC*	DPC*	DPC*	No	4.6 - 6.0

*DPC- Depend on camera capability

View Z (ONVIF)

View Z (ONVIF)

Supported View Z cameras using the ONVIF camera handler

Model	Codec Supported	Audio	I/O	PTZ Supported	Edge Motion Detection Supported	VideoEdge Version Supported
ViewZ VZ-PVM-I2W1	H.264, MJPEG	No	0/0	No	No	4.5.1 - 6.0
ViewZ VZ-215D2IP	H.264, MJPEG	No	0/0	No	No	4.5.1 - 6.0

SightLogix (ONVIF)

Table 37: SightLogix ONVIF supported cameras

Model	Codec Supported	Audio	I/O	PTZ Supported	VideoEdge Versions Supported
HD236-220	H264	No	3/3	No	5.9 and higher

Camera specific release notes

Camera specific release notes

This section is a collection of camera release notes as provided with each camera release. This section provides detailed description for each manufacturer cameras, performance limitations and supported features.

American Dynamics 8 Channel IP Encoder

Supported key functions

- Video Streaming – Single and Dual
- Video Codec – MJPEG, MPEG4 and H.264
- Audio Streaming – Audio Codecs are AAC, G.711 ulaw and G.711 alaw
- PTZ – Applies to analog cameras that have mechanical Pan, Tilt, and Optical Zoom
- Dry Contact Events – Camera is polled for dry contact event at 100ms interval
- Reset to Factory Defaults
- Query Device
- Reboot Device
- Bitrate control supported – VBR provides a quality drop down range and CBR provides a bitrate value option.

Required ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: user
- Password: user617

Special points

A new handler has been introduced as part of VideoEdge 4.5 and above – phNew features for handler:

The new handler has some changes on how the camera adds to the VideoEdge: handler will set the codec of the stream –using the following priority H.264, MPEG4, MJPEG - all other values are read from camera. If adding a defaulted AD 8 Channel Encoder, the VideoEdge stream will configure with the settings of CIF, 30/25 fps, VBR with quality 52.

On the new handler Real time video bitrate for MAX bitrate values will never exceed the figure set by handler/camera (at max resolution and frame rate at a set bitrate of 10000 the actual real time bitrate of video will never exceed 8500)

Mango and American Dynamics 8 Channel Encoder upgrade

Release component: NVR_Handler_AD_8ch_Encoder-5.7.100.3002.x86_64.iso

Because of security updates on VideoEdge versions 5.7.0 and 5.7.1, an upgrade to the Mango Handler was necessary to fully support legacy products:

American Dynamics 8Ch Encoder.

American Dynamics ADCi600-D111 and ADCi610-D111.

The updated component can be safely installed on NVR versions 5.7.0 and 5.7.1.

Limitations

Changing the video source requires a reboot of the encoder. During the reboot, the device will not respond.

Changing the interlacing parameter requires a reboot of the encoder. During the reboot, the device will not respond.

Changing streaming parameters like bit-rate, quality, frame-rate, key frame interval and others would require the stream to be restarted, hence a small glitch in play out might be observed during this time.

Consecutive audio channel pairs should be configured with same codec otherwise RTSP will send a 500 message. Pairing as {PCMU,PCMA},AAC.

Due to a limitation in the Encoder firmware, the QCIF video stream uses the 172x112 resolution.

Pattern cancel feature is not support in consistent manner. If “Pattern Cancel” is selected via victor unified client, recorded pattern will be saved, overwriting the existing pattern.

The handler will support camera bitrate controls of CBR and Control Q. The control Q will be mapped to a VBR tag when showing on VideoEdge camera configuration page. If the camera stream was set to use VBR the handler will automatically change to use Constant Q values.

When Stream values get set via VideoEdge (resolution/fps /quality/bitrate) get set via VideoEdge, these get embedded in stream URL, and do not update on camera's web interface

“Focus” and “Iris” support has been removed, to maintain consistency, the “Auto Iris” feature is also disabled.

When tilt is aligned at the zero-tilt position on the dome (where 180 degree can also flip occur), this may result in the camera continuously titling.

It has been observed that CBR operation for MPEG-4 at lower frame-rate settings is blocky and full of artifacts. To improve the same, a constant quality settings operating as VBR is found to be more effective. This has been incorporated in the solution.

Due to a limitation in the encoder, simultaneous PT and Z operation using the encoder on a camera is not supported.

Due to a limitation in the encoder while operating in resolution QCIF, GOP settings 2 and in CBR transmission mode, it is possible to observe up to 50% frame drops depending on the complexity of input scene.

Bitrate / Quality or any streaming parameter changes using the encoder webpage do not reflect or take effect on the already started or existing streaming session. Either the encoder needs to be restarted or the streaming session needs to be restarted for these parameters to take effect.

ADEIP8H on rare occasions the MJPEG stream may send bad frames where the frame size is only several dozen bytes.

Due to the new quality value is embedded in stream URL, quality does not update on camera's web interface after changed on VideoEdge

Due to the new bitrate value is embedded in stream URL, bitrate does not update on camera's web interface after changed on VideoEdge

For additional information, refer to AD 8-Channel IP Encoder (M) and (H) Release Notes.

Due to new functionality being introduced the MPV4 bitrate control option will change from CBR to VBR on VideoEdge Version 4.5.0 and after.

American Dynamics Fixed IP Camera

Supported firmware

- V1.57 or later
- Supported key functions
- Video Streaming: Single
- Video Codec: MJPEG and MPEG-4
- Audio Streaming: Model specific, G.711 ulaw, A/V, single stream only
- Dry Contact Event - 1 Dry Contact, http poll for dry contact event at 100ms interval
- Query Device

Required ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password<

- Username: admin
- Password: 9999

Limitations

The camera will reboot when changing codec (audio or video), resolution, frame rate, key frame interval, video quality, audio volume, enable audio / audio in and any other audio / video properties. Reboots will take about 20 to 30 seconds and 1 minute to be back online.

Single HTTP stream to send audio/video interleaved MPEG4 video.

When the camera is rebooted or codec changed, if focus is adjusted against a grey scene, it will take up to 30 seconds to go back to color.

When changing codec from MJPEG to MPEG4, if the default bit rate is larger than 8000, an error message will be received when changing the video codec properties; the workaround is to change the bit rate to 8000.

For additional information, refer to AD Fixed Camera Release Notes.

American Dynamics Fixed Camera (Illustra 400 series)

Supported firmware

- V2.20 or later
- Supported key functions
- Video Streaming – Single, Dual
- Video codec – H.264 and MJPEG
- Audio Streaming – G.711 ulaw and G.726, single stream only
- Dry Contact Events – is polled for dry contact event at 100ms interval
- Query Device
- Device Reboot

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: 9999
- Limitations

When a factory defaulted camera is added to a VideoEdge, the default settings are: H.264, 7 fps and CIF. When the user wishes to change the settings they can for single streaming increase the frame rate and resolution to max and click Save. For dual streaming, user can enable 2nd stream by selecting Alarm or Record. They should change the codec to MJPEG and click Save.

The camera will reboot when changing codec (audio or video), resolution, frame rate, key frame interval, video quality, audio volume, enable audio / audio in and any other audio / video properties. The reboots will take about 20 to 30 seconds.

All audio and video streams will be lost when the camera reboots. All audio and video streams will then need to be re-established.

When the camera is rebooting, video and audio properties may not be available to get / set new value.

Due to camera internal resource contention, both profiles (streams) must have the same resolution. If profiles (streams) are set to obtain different resolutions the requested frame rate will not be obtainable for MJPEG.

To achieve optimal H.264 Motion Detection results, the recommended settings are:

Stream 1 is H.264, 30fps, D1 or D2 resolution, default quality.

Stream 2 is MJPEG, 7 fps, CIF, default quality.

For some properties' values are retrieved from camera itself (e.g. resolution, quality), that results in that when the user adds the camera, the return value is not the default value defined in the VideoEdge, but the actual value in camera.

VideoCodecKeyFrameInterval is not supported by the camera handler, but the user can change it from the camera web page.

For AudioInputVolume, the microphone input and line-in input have different ranges.

Microphone input:

- A setting of 'low (1)' is 20dB.
- A setting of 'high (10)' is 26 dB.

Line-in:

- A setting of ‘low (1)’ is 6 dB.
- A setting of ‘high (10)’ is 18dB.

Due to camera internal resource contention, changing the resolution quality or bit rate may affect the frame rate performance. Refer to camera limitation.

Changing the video codec/audio codec may cause the RTSP service in the camera to stop, and the video/audio streaming to stop working, the workaround is to reboot or power cycle the camera

With camera firmware v2.20, the frame rate selections for the MJPEG codec from the camera's web interface shows only "3,5,7,10,12,15,30" for NTSC and “3,5,7,10,12,15,25" for PAL. This, however, does not affect the frame rate selections from the VideoEdge client, which remain supporting 1 - 30 for NTSC and 1-25 for PAL.

To meet the single stream fps, the user can enable dual stream on VideoEdge, configure the stream codec/resolution/fps/quality for Stream 1 and then configure Stream 2 to lowest resolution/fps/quality. Once Stream 2 is configured the user can disable Stream 2 on the VideoEdge. Alternatively the user can access the camera’s web GUI settings to change stream 2 to the lowest/resolution/fps/quality.

Illustra400 Camera will be ‘Unknown’ in VideoEdge camera list after rebooting the VideoEdge while the camera is offline. The workaround is to first create a password group with the password “9999”, then add the Illustra 400 camera with this new group, not the default group.

Note: For additional information, refer to the AD Illustra 400 Camera Release Notes.

American Dynamics Fixed Camera (Illustra 210, Illustra 600 and Illustra 610 Domes)

Supported key functions

- AD00-00-17-04 or later
- Video Streaming
- Audio Streaming – Supports G711mulaw stream (600/610/210). Illustra 610LT does not support audio.
- Dry Contact Events – Single camera is polled for Dry Contact at 100ms interval (600/610/210). Illustra 610LT does not support dry contact events.
- Query Device
- Reboot

Unsupported key functions

- PTZ operation
- Power off devices
- Get device log
- Find devices
- Reset to factory default

Audio/Video streaming feature

- Supports both MJPEG and H.264 codec.
- Camera will takes around 25 seconds to restart network services after changing the codec or resolution settings.
- Supports two video streams at the same time

- The RTSP audio-only stream URL is
- rtsp://camera_ip:7777/audio
- The RTSP video-only stream URL is
- rtsp://camera_ip:7779/primarystream
- rtsp://camera_ip:7781/secondarystream
- The RTSP A/V mixed stream URL is
- rtsp://camera_ip:7778/primarystream
- rtsp://camera_ip:7780/secondarystream
- The end user can modify the port numbers using the camera webpage.
- The handler will select one stream from the camera, so the RTSP URL for MJPEG or H.264 can be either of these two URLs

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTP/RTSP

Default username and password

- Username: admin
- Password: admin

Limitations

When a factory defaulted camera is added to a VideoEdge, the default settings are: H.264, 7 fps and CIF. When the user wants to change the settings, for single streaming, they can increase the frame rate and resolution to max and click Save. For dual streaming, users can enable the second stream by selecting Alarm or Record, changing the codec to MJPEG, and then clicking Save.

Due to the slow response of HTTPS from the camera Firmware 17-34, and the timeout set on the VideoEdge, some cameras may not add using HTTPS. If this issue occurs, use the following workaround: First, add the camera using HTTP to VideoEdge. Then, change the camera to HTTPS on the camera's webpage. Finally, use the VideoEdge Admin Interface to move the camera to a security group with the correct security settings.

When the primary and secondary streams are configured with the same codec, changing streams on the VideoEdge may change the opposite stream to the one you want to change. The Illustra 600 primary and secondary streams configuration will not necessarily reflect Stream 1 and Stream 2 on the VideoEdge. The camera only identifies the streams by the stream codec, ignoring frame rate and resolution. In some instances when VideoEdge streams are both configured with the same Codec, changing one of the streams will not necessarily change the parameters on the specified stream.

The Illustra 600/610 camera only supports one 720p / 1080p stream. If there is one 720p / 1080p stream on the VideoEdge, you cannot set another.

If the secondary stream is enabled using the camera's webpage, the camera will keep streaming even when no user requires the stream. To meet the frame rate set in the VideoEdge, the other stream should be set to a lower resolution, quality, and frame rate. Refer to the camera frame rate limitation document.

To meet the single stream FPS, you can enable dual stream on VideoEdge, configure the stream codec/resolution/FPS/quality for Stream 1, and then configure Stream 2 to lowest resolution/fps/quality. Once Stream 2 is configured, you can disable Stream 2 on the VideoEdge. Alternatively, you can access the camera's webpage to change stream 2 to the lowest resolution/FPS/quality.

Changing codec and/or resolution will cause the network service to reboot; this takes about 25 seconds. It will continue to deliver previous video and audio streams in the first 15 seconds. During this time, the camera will be offline. If the user refreshes the VideoEdge Admin Interface, the properties will be “unknown”. The camera may still be rebooting. If the video stream is not created successfully, the properties will show “unknown”.

When a user adds the camera, for some properties, the values that are retrieved from the camera itself, such as resolution or quality, are the default value, but the value defined by the camera.

VideoEdge only supports audio in 8KHz.

Illustra 600, add 720p and 1080p resolution for MJPEG stream, change the codec or resolution of stream 1 will report an error. Illustra 600 camera only supports one 720p / 1080p stream. If there is one 720p / 1080p stream on the VideoEdge, it is impossible to set another. Refer to the camera limitation.

Auto Exposure switch appears to occur earlier than expected for 720p PAL and 1080p camera.

The GOP of H.264 must be below 120. If the GOP is too big, several seconds are needed to create a key frame. This will cause a mosaic image effect when opening the VideoEdge if it is not a I-Frame. It is suggested to set the GOP size the same as the frame rate. On the camera, the default factory GOP is 30 for NTSC, 25 for PAL, it is not recommended to change this.

When changing the frame rate, the corresponding RTSP stream will restart. This may result in a minor video loss dependent on the GOP size configured, because the video needs a key frame.

It is recommended to configure the camera within the camera frame rate limitations. If the parameters exceed the limitations, the camera performance may be affected.

Rebooting the camera to factory default can resolve the camera performance. Once this is complete, reconfigure the camera within the camera frame rate limitations.

VideoEdge does not support changing the quality of H.264.

Although the VideoEdge does not support changing the quality of H.264, this can be managed through the camera's web interface. Any resolution change made to the H.264 stream on the VideoEdge, will change the quality setting of the H.264 stream on the camera web interface from High to Medium. In fact, it is High. This is camera parameter value map issue related to the firmware. It is to be done through the camera's web interface the rate control must be either CBR or CVBR.

To support dual streams, it is recommended the interval between changing codec/resolution should be greater than 30 seconds. Otherwise the camera may keep rebooting.

When changing the codec of steam 1 in the VideoEdge that has dual streams, the error “unable to determine stream 2 – malformed request” will be reported. When the “back” button (refresh in the web GUI) is clicked, the codec will have changed to the configured codec. This is a limitation.

If Motion Meta Data is enabled, changing codec/resolution of stream1 or stream2 after the camera reboots, the Motion Meta status will be disabled. This is a limitation.

If the default exposure is configured on the Illustra 600 or 610, a 2 to 3 second video freeze will be experienced as the camera changes mode from day to night. When the available light caught by the camera lens drops sufficiently, the camera changes from Day mode (color images) to Night mode (black and white images). This freeze is related to the time it takes the camera lens to readjust to the light difference when it is set to the default exposure rate and the effect on the VideoEdge as the mode changes over. A workaround for this is to increase the exposure setting. This is a limitation.

For resolution/frame rate/quality limitation, refer to the camera frame rate limitation document.

Video and audio may become out of sync when navigating playback to specific times on the victor Client clips.

If the codec on the camera primary stream is MJPEG, when this camera is added into a VideoEdge, the camera will need to change the codec to H.264 and reboot. The camera will be offline for about 20 seconds

Wrong video timestamp will make VideoEdge create a lot of sessions and have a minor video loss in playback.

If a user changes the rate control of an Illustra 210 model on the Camera Web GUI to VBR it may cause a pulsation effect on the H.264 stream when using default resolution, frame rate and quality values. The Default for the Rate Control is CBR.

On VideoEdge 4.4 when the bitrate control is changed to CVBR, the VideoEdge GUI will report an error message, ignore as the change actually taken effect.

The Factory default values for the Illustra Camera models are:

Illustra 210 = H.264, Maximum available Fps, D1

Illustra 600 = H.264, Maximum available Fps , 1280x720

Illustra 610 = H.264, Maximum available Fps , 1920x1080

The camera will not add after password is changed and correct password group is selected. This issue happens intermittently.

Any interruption to video stream on the I6x0 Minidome series (stream setting change, camera reboot or camera loss of power) will result on Edge Connection being interrupted even if it will still shows as active on VideoEdge configuration. Just disable and enable the “Edge Motion Detection Alarms” configuration by the VideoEdge alarm tab will restore the connection.

When monitoring the Blur Detection Alarm Feature on victor Client event window for the Illustra 600 Series Camera, on occasion there may be a delay in the blur detection alarm (can be up to 60 seconds)

When streaming video from an Illustra 600 series camera in the Motion Detection window of the Search and Retrieve feature of the victor Client, flickering can be observed.

Setting up Edge Motion on the i6x0 Mini-Dome Cameras via the set up below (Scenario 2) may cause Edge Motion not to trigger correctly. Follow the work around if you intend to set up your camera using Scenario 2. Otherwise you can use Scenario 1.

Scenario 1: Motion Triggers

Add camera as default Single Stream - H.264

Enable Edge Motion and configure VideoEdge alarms page (assuming motion is already setup on the camera)

Motion will always trigger

Enable Stream 2 Alarm / Record as MJPEG (usually MJPEG, 7, CIF)

Motion will always trigger

Scenario 2: Motion does not Trigger

Add camera as default Single Stream - H.264

Enable Edge Motion and configure VideoEdge alarms page (assuming motion is already setup on the camera)

Motion will always trigger

Enable Stream 2 Alarm / Record as H.264.

Motion will not trigger.

At this stage the camera is in a state. Even if you now change Stream 2 to MJPEG, Edge motion will still not trigger.

Workaround for Scenario 2:

After setting both streams to H.264, go back to the Alarm Configuration page on the VideoEdge

Disable Edge Motion and Save

Re-enable Edge Motion and Save

Motion will now trigger.

Special points

Some properties are normalized to a percentage (1-100), but the real value in camera is a range from -127 to 128. This results in the values in the VideoEdge not covering all values in the camera.

When the camera is added to VideoEdge, it is recommended not to change settings from the camera web page (especially video and audio) because the change may need to reboot the video codec and this will affect the VideoEdge.

When changing the video resolution, frame rate, quality, bit rate, audio codec, the code stream will reboot. At this time, the related property cannot be accessed.

Resolutions on stream1 and stream2 cannot be changed at the same time.

610LT models have removed some functionality available in the 610 standard models. This removed functionality is IR illuminator support, SD card support, and TV input/output support.

The Illustra 210 models have no support for Region of Interest, Face Detection and Pseudo Multi Pass Encoding.

American Dynamics Fixed Camera (Illustra 600, 610 and 600LT Series Box and Bullets)

Supported firmware

v1.0.16 or later

Supported key functions

- Video Streaming (MJPEG, H.264 and Dual Streaming supported)
- Audio Streaming
- Dry Contact Event (1 Contact Polling every 100ms)
- Query Device
- Reboot

Unsupported key functions

- PTZ Operation
- Power off Devices
- Get Device Log
- Find Devices
- Reset to Factory Default

Audio/Video streaming feature

- The rtsp audio only stream URL is: `rtsp://camera_ip/audio.sdp`
- The rtsp video only stream URL is: `rtsp://camera_ip/video.sdp or rtsp://camera_ip/video2.sdp`

- The rtsp A/V mixed stream URL is: `rtsp://camera_ip/live1.sdp` or `rtsp://camera_ip/live2.sdp`

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTP/RTSP

Default username and password

- Username: admin
- Password: admin

Limitations

When a factory defaulted camera is added to a VideoEdge, the default settings are: H.264, 7 fps and CIF. When the user wishes to change the settings they can for single streaming increase the frame rate and resolution to max and click Save. For dual streaming, user can enable 2nd stream by selecting Alarm or Record. They should change the codec to MJPEG and click Save.

To meet the highest single stream frame rate, the user can enable dual stream on the VideoEdge, configure the stream codec/resolution/fps/quality for Stream 1, and then configure Stream 2 to lowest resolution/fps/quality. Once Stream 2 is configured the user can disable it on the VideoEdge. Alternatively the user can access the camera's web GUI settings to change Stream 2 to the lowest resolution/fps/quality. For some properties' the value is retrieved from camera itself (resolution, frame rate, quality, brightness, contrast, sharpness) result in that when user adds the camera, the return value is not the default value defined in the VideoEdge, but the actual value in camera.

The camera will reboot when changing codec (audio or video), resolution, frame rate, key frame interval, video quality, audio volume, enable audio/audio in or any other video/audio properties. Average time for reboot is 30 seconds.

Changing the video/audio codec or resolution may cause the RTSP service in the camera to stop. With the camera failing to restart and set new streams, the workaround is to reboot or power cycle the camera and reset stream settings.

All streams will be lost when camera reboots and be automatically reestablished on startup.

When the camera is rebooting, VideoEdge video and audio properties may not be available to get or set. Any changes made to these settings during reboot time will not be saved.

In the VideoEdge, under image settings the Video Standard will always display NTSC in the dropdown list, irrespective of it being NTSC or PAL. For PAL cameras, frame rate will show 25 as max frames per second.

When the primary and secondary streams are configured with the same codec on the camera's web interface, changing stream on the VideoEdge may change the opposite stream to the one you wish to change. Stream 1 and Stream 2 on the VideoEdge will not necessarily reflect primary and secondary steams configuration on the camera. The camera only identifies the streams by the stream codec (ignoring frame rate and resolution). In some instances when VideoEdge streams are both configured with the same codec, changing one of the streams will not necessarily change the parameters on the specified stream.

It is recommended to configure the camera to the cameras frame rate limitations. If the parameters exceed the limitations, the camera performance may be affected. Factory defaulting the camera, and adding to a VideoEdge can resolve this performance issue. Once this is completed, reconfigure the camera stream without exceeding stream limitations. Refer to camera release notes.

If the dual stream resolution/frame rate is high, the video may be abnormal, a reboot or factory default may resolve this issue.

Changing the resolution, quality or bit rate of either stream (even when second stream is not active) may affect the frame rate performance. Refer to the camera release notes for additional information.

It is recommended to only change one video codec parameter at a time to avoid stream corruption.

Due to the 2 variants of frame rate supported by either MJPEG or H.264, it is recommended to first only change the codec, and then change the resolution and frame rate, or the operation will fail.

Default IR settings on the 610 Bullet can cause loss of frames. Settings on the camera's web interface should be changed so the ICR trigger condition is “Automatic” and the IR Light is set to “Sync with ICR”.

Video and audio are out of sync when playback in victor unified client while live view is sync.

Wrong sequence number in RTSP video stream is received in VideoEdge which causes missing frame.

After soaking for 4 days, video disordered and large timestamp in video is observed. Normal interval is circa 5000 but 200000 is found.

The VideoEdge handler does not support VideoCodecKeyFrameInterval, but the user can change it from the camera's web interface.

Jitter will be observed in live view via the VideoEdge and victor, due to camera performance limitations. This due to the camera taking more than 33 ms to send out the key frame. This does not happen in recorded video. Refer to camera release notes.

RTSP and HTTP stream might be unavailable when user frequently changes codec, resolution and frame rate too quick. A waiting time of 2 minutes is recommended.

i600 & i610:WW: When dual streaming with CBR set to 4M, when enabling motion detection and recording to SD card, frame rate will drop to less than 10 fps. This is due to a camera performance limitation. Refer to camera release notes.

Special points

⚠ **CAUTION:** Do not add the same camera to more than one VideoEdge.

✓ **Tip:** When the camera is added to VideoEdge, it is recommended not to change settings from the camera web page (especially video and audio) because the change may need to reboot the video codec and this will affect the VideoEdge.

✓ **Tip:** There is a jitter on H.264 streams if opening dual streams for Illustra 610 cameras. (Stream 1: H.264,1920x0180 25 fps & Stream 2: JPEG, CIF, 7 fps). To improve performance, lower the Frame Rate or resolution of the second stream.

ⓘ **Note:** When changing between PAL and NTSC, the frame rate will change as the same rule. The maximum frame rate will rise to 30 fps when PAL is set to 25 fps and changed to NTSC

ⓘ **Note:** It may take 2 minutes when changing other frame rate to 3 fps. The reason for this is a mismatched GOP and frame rate will cause a longer re-connection time due to waiting for another frame. GOP size is much larger than Frame Rate, it may take a longer time for video to restart.

ⓘ **Note:** Some properties are normalized to a percentage (1-100), but the real value in camera is a range from 0 to 255. This results in the values in VideoEdge not covering all values in camera.

Illustra Pro Series, Flex Series (Flex Gen 1 fw 2.0.13 and above) & Illustra 625 PTZ and i825 FE

Table 38: Supported firmware

Camera	Model	Firmware version
Illustra 625 PTZ, 20x indoor	ADCi625-P132	1.0.0.A4484AAA806 and above
Illustra 625 PTZ, 20x outdoor	ADCi625-P12x	1.0.1.A4491AA810 and above
Illustra 625 PTZ, 20x indoor, Feature Plus	ADCi625-P232	1.0.2.A491AA929
Illustra 625 PTZ, 20x outdoor, Feature Plus	ADCi625-P22x	1.0.2.A491AA929
Illustra Pro PTZ, 30x, indoor	IPS02P6ANBTT	2.0.0.A10475ZZZ395
Illustra Pro PTZ, 30x, outdoor	IPS02P6xxWTT	2.0.0.A10475ZZZ395
Illustra Pro PTZ, 30x, indoor, Feature Plus	IPP02P6ANBTT	2.0.0.A10475ZZZ395
Illustra Pro PTZ, 30x, outdoor, Feature Plus	IPP02P6xxWTT	2.0.0.A10475ZZZ395
Illustra 6x0 Compact Mini-Dome 720p / 1080p	ADCi6x0-M111	1.0.8
Illustra 610 Compact Mini-Bullet 1080p	ADCi610-M022	1.2.4
Illustra LT Bullet	IPL02BxBNWIY	2.0.12
Illustra 2MP Micro	IPS02HFANWSYx	2.1.0
Illustra 825 Fisheye 5MP, Indoor, White, Vandal	ADCi825-F311	1.0.1.B6012AC392
Illustra 825 Fisheye 5MP, Indoor, White, Non-Vandal	ADCi825-F312	1.0.1.B6012AC392
Illustra 1 and 2 Megapixel Flex Box, bullets and minidomes	ADCi600F-xxxx ADCi800F-xxxx	2.0.13
Illustra Pro 3MP & 5MP Mini-Dome	IPS03Dxxxxxx IPS05Dxxxxxx	1.0.0C8982A560
Illustra Pro 2MP Mini-Dome	IPS02Dxxxxxx	1.0.1.C10314A780
Illustra Pro 12MP HD Fisheye	IPS12FFOCWIY, IPS12FFOCWIYA, IPS12FFOCWIYT	Illustra.SS002.00.06.00.1128
Illustra Flex PTZ	IFS02P5ICWTY & IFS02P5OCWTY	Illustra.SS002.00.06.00.1128
Illustra IP PVM	ADLCDxxPPS2x	2.0.10
Illustra Flex 3MP (flex2)	IFS03D1ICWTT, IFS03D1OCWIT, IFS03B1BNWIT, IFS03XNANWTT IFS03CFOCWST	SS004.01.00.00.392 SS004.01.00.00.392 SS004.01.00.00.392 SS004.01.00.00.392 SS004.01.01.00.0518

Table 38: Supported firmware

Camera	Model	Firmware version
Illustra Flex 4k	IFS08D2ICWTT IFS08D2OCWIT IFS08XNANWTT	SS004.01.03.00.0704 SS004.01.03.00.0704 SS004.01.03.00.0704
Illustra Flex IR PTZ	IIFS02P6ONWIT IFS02P6INWIT	SS004.01.06.00.
Illustra Pro 2MP / 3MP Compact	IPS02CFOCWST IPS03CFOCWST IPS02HFANWST2	SS005.01.04.00.0037
Illustra Pro 2MP Micro	IPS02HFANWST2	SS005.01.06.02.0065
Illustra Pro LT 5MP Fisheye	ADCi825LT-F311 ADCi825LT-F312	3.0.0.B20593AD907
Illustra Flex3 Series	All	All
Illustra Flex4 Series	All	All
Illustra Pro4 Series	All	All
Generic - all unlisted cameras that are compatible with AD iAPIv3 specification document v1.0.1	N/A	N/A

Supported key functions

- Video Streaming (Single, Dual, Tri) - H.264, H.264+ and MJPEG -device dependent
- Audio Streaming - Audio codec supported is device dependent
- Dry Contact Events - HTTP server push is available in iAPI3 for use of obtaining the dry contact event (camera dependent)
- Edge Analytics - device dependent
- PTZ - Applies to cameras that have mechanical Pan, Tilt and Optical Zoom
- Query Device
- DIO
- Multicast
- TrickleStor

Unsupported key functions

- Find devices
- Reboot device
- Power off device
- Get device log
- Reset to factory default

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP
- Port 85 is for HTTP metadata streaming

Default username and password

- Username: admin
- Password: admin

Default security group auto-detect HTTP authentication type

From VideoEdge 4.8.100, 4.9.100 and on 5.0 Core onwards iAPI3 handler default security group can now auto detect HTTP authentication type and set according to camera configuration, this eliminates the need for end user to create security groups for authentication types.

For cameras running High (HTTPS / SSlv3). If you select Enhanced Security, you must also enable the Video over HTTP option to allow for Edge Analytics Integration.

HTTP protocol default with enhance security

Camera model and firmware	Default enhanced security protocol	
	Medium (HTTP Digest)	High (HTTPS / SSLv3)
Flex2 fw: SS004.01.00.01.0432 to SS004.01.01.00.0518	x	
Flex2 fw: SS004.01.02.00.0584 onwards		x
Flex 4K Fw: SS004.01.03.00.0704		x
Pro Minidome fw: 1.3.1.C15847A1455	x	
Pro 12MP FE fw: SS002.01.00.00.0620 onwards	x	
Flex PTZ fw: SS002.01.00.00.0620 onwards	x	
Illustra Pro 2MP / 3MP Compac Illustra Pro 2MP Micro		x
Illustra Flex IR PTZ		x
Illustra Flex2, Flex3, Flex4, Pro3, Pro4 Series		x
Illustra G4 Essentials		

Audio/video and event streaming feature

Common characteristics:

The specific Auto/Video Stream feature characteristics by model families are:

Model family	Audio/Video stream feature	Number of inputs /outputs
Illustra Pro PTZ / 625 PTZ: IPS02P6xxBTT ADCi625-P1xx	MJPEG and H.264 Support Dual video streams	0
Illustra Pro PTZ / 625 PTZ Feature Plus: IPP02P6xxBTT ADCi625-P2xxA	MJPEG and H.264 Support Dual video streams Support G711 Audio stream	4/1

Model family	Audio/Video stream feature	Number of inputs /outputs
Illustra 600M Compact Minidome: ADCi6x0-M111	MJPEG and H.264 Support Dual video streams	0
Illustra Pro Bullet Series: ADCi610-M022 IPL02BxBNWIY	MJPEG and H.264 Support Dual video streams	1
Illustra Pro 2MP Micro IPS02HFANWSYx	MJPEG and H.264 Support Dual video streams	1
Illustra 1 and 3 Megapixel Flex Series Firmware 2.0.x upwards: ADCi600F-xxxx ADCi800F-xxxx	MJPEG and H.264 Support Dual video streams Support G711 Audio stream	1
Illustra 825 Fisheye: ADCi825-F31x	2, 3, or 5 Channels MJPEG and H.264 Support Dual video stream	0
Illustra Pro LT Fisheye: ADCi825LT -F31x	1 Channels MJPEG and H.264 Support Dual video stream	0
Illustra Pro 2MP, 3MP & 5MP Mini-Dome IPS02Dxxxxxx IPS03Dxxxxxx IPS05Dxxxxxx	MJPEG and H.264 Support Dual & Tri video streams Support G711 Audio stream	2/1
Illustra Flex PTZ	MJPEG and H.264 Support Dual video streams Support G711a G711u G726 AAC Audio stream	4/1
Illustra Pro 12MP HD FE	1 Channel MJPEG and H.264 Support Dual video streams Support G711a G711u G726 AAC Audio stream	1/1
Illustra IP PVM	MJPEG and H.264 Support Dual video streams	1/0
Illustra Flex 3MP (flex2) IFS03D1ICWTT, IFS03D1OCWIT, IFS03B1BNWIT, IFS03XNANWTT	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams Support G711 Audio stream	1/1
Illustra Flex 3MP (flex2)IFS03CFOCWST	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams	0

Model family	Audio/Video stream feature	Number of inputs /outputs
Illustra Flex 4KIllustra Flex4 Series	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams Support G711 Audio stream	1/1
Illustra Pro 2MP / 3MP Compact & 2MP micro	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams	0/0
Illustra Flex IR PTZ	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams Support G711 Audio stream	2/2
Illustra Pro3 Series Illustra Pro4 Series	MJPEG and H.264, H.264+ (intellizip), and H.265 Support Dual & Tri video streams Support G711 Audio stream	1/2
Generic	Assume MJPEG, MPEG4 and H.264 Assume Dual video streams Assume G711a, G711u, AAC and G726 if Audio capability is detected	DPC

*DPC - Depends on Camera Capability

All API3 cameras will only support Physical Dry contact status, with the exception of Flex series where Logical will also be available.

Edge support

From VideoEdge 5.3 onwards, VideoEdge can support a Metadata only Edge configuration. The following table provides information on the camera models that support this.

Table 39: Edge metadata supported cameras

Model	Edge analytics									
	Motion		Face		Blur	Video Intelligence		Tamper	AI Object Classification	
	Alarm	Metadata	Alarm	Metadata	Alarm	Alarm	Metadata	Alarm	Alarm	Metadata
i625 PTZ	Yes	No	No	No	No	No	No	No	No	No
Illustra Pro Fisheye LT 5MP Series (i825)	Yes	No	No	No	No	No	No	No	No	No
Compact Mini-Dome & Mini-Bullet	Yes	No	No	No	No	No	No	No	No	No
Illustra Pro LT Bullet & 2MP Micro	Yes	No	No	No	No	No	No	No	No	No
Illustra Pro Mini-Domes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (with license)	No	No	No
Illustra Flex Mini-Dome & PTZ	Yes	No	No	No	No	No	No	No	No	No
Illustra Pro 12MP Fisheye	Yes	No	No	No	No	No	No	No	No	No
Illustra Flex 2 Series	Yes	Yes	No	No	Yes	No	No	No	No	No
Illustra Pro 2MP / 3MP Compact & 2MP Micro	Yes	Yes	No	No	Yes	No	No	No	No	No

Table 39: Edge metadata supported cameras

Model	Edge analytics									
	Motion		Face		Blur	Video Intelligence		Tamper	AI Object Classification	
	Alarm	Metadata	Alarm	Metadata	Alarm	Alarm	Metadata	Alarm	Alarm	Metadata
Illustra Flex2 IR PTZ	Yes	No	No	No	Yes	No	No	No	No	No
Illustra Pro3 Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes (with license)	No	No	No
Illustra Flex 3	Yes	Yes	4k only	4k only	Yes	4k only	4k only (with License)	Yes	No	No
Illustra Standard3 & Essentials Z	Yes	Yes	No	No	Yes	No	No	No	Yes	Yes
Illustra Pro4 Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes (with license)	Yes (AI)	Yes	Yes
Illustra Pro4 Fisheye	Yes	Yes	No	No	Yes	No	No	No	No	No
Illustra Flex4 Series	Yes	Yes	No	No	Yes	No	No	Yes (AI)	Yes	Yes
Illustra Essentials4 Series	Yes	Yes	No	No	Yes	No	No	No	No	No
Illustra IP PVM	Yes	No	No	No	No	No	No	No	No	No

For cameras running Illustra Flex SS004.01.02.00.070 or later or Pro Compact SS005.01.04.00.0037 or later if Enhance Security is selected - The option to allow for Video over HTTP must be enabled to allow for DIO & Edge Analytics Integration

Multicast

VideoEdge will allow to configure multicast streaming for supported cameras. victor operators can view live steams from multicast cameras, while the VideoEdge is offline.

victor workstations require a direct connection to the camera network.

The following table lists the cameras and camera firmware versions that currently support multicast streaming.

Multicast Firmware compatibility (5.1 and above)	
Camera model	**Firmware version**
Illustra Pro 2MP / 3MP / 5MP Fixed Mini-Dome	1.3.2 or above
Illustra Flex 3MP Series	SS004.01.02 or above
Illustra Flex 4K	SS004.01.03.00.0704 or above
Illustra Pro 2MP / 3MP Compact& 2MP Micro	SS005.01.04.00.0037
Illustra Flex IR PTZ	From release
Illustra Pro3 Series	From release
Illustra Flex3 Series	From release
Illustra Pro4 Series	From release
Illustra Flex4 Series	From release

H.264+ support: zip stream support

H.264+ allows for enhancements to the H.264 codec to be utilized such as Dynamic Frame Rates, which will reduce the frame rate of the camera when the scene is quiet before increasing it again for motion, and Dynamic GOP which will increase the GOP setting as the scene gets quieter while lowering it as more motion is visible. The following table lists the cameras and camera firmware versions that currently support H.264+.

H.264+ firmware compatibility (5.1 and above)	
Camera model	**Firmware version**
Illustra Flex2 Series	SS004.01.02 or above
Illustra Flex 4K	SS004.01.03.00.0704 or above
Illustra Pro 2MP / 3MP Compact & Micro	SS005.01.04.00.0037
Illustra Flex IR PTZ	SS004.01.06.00.xxx
Illustra Pro3 Series	From release
Illustra Flex3 Series	From release
Illustra Pro4 Series	From release
Illustra Flex4 Series	From release

Digital Output (DIO)

VideoEdge Digital I/O support enables the user to now utilize the outputs on Illustra API3 cameras. The inputs can be wired to devices which, when triggered generates an alert on the NVR. The outputs can be wired to a relay in order to trigger an external device to activate or deactivate. The following table lists the cameras and camera firmware versions that are compatible with VideoEdge Outputs.

Output Illustra camera firmware compatibility (5.1 and above)	
Camera model	**Firmware version**
Illustra Pro 2MP / 3MP / 5MP Fixed Mini-Dome	1.3.2 or above
Illustra Pro i625 PTZ, 30x PTZ	2.1.7 or above

Output Illustra camera firmware compatibility (5.1 and above)	
Camera model	**Firmware version**
Illustra Flex2 3MP Series	SS004.01.02 or above
Illustra Flex i600F or i800F	3.1.5 or above
Illustra Pro Bullet LT, Micro, Compact	2.1.5 or above
Illustra Pro 12MP FE	SS002.01.00.00.0620 or above
Illustra Flex PTZ	SS002.01.00.00.0620 or above
Illustra Flex 4K	SS004.01.03.00.0704
Illustra Flex IR PTZ	SS004.01.06.00.xxx
Illustra Pro3 Series	From release
Illustra Flex3 Series	From release
Illustra Pro4 Series	From release
Illustra Flex4 Series	From release

Illustra DIO alarm in high/low support

VideoEdge 5.1 adds support for High/Low triggering of some of the Illustra Pro and Flex range. This now allows for Events on victor to be triggered from a Low to High State (Closed to open).

When the state of dry contacts is changed from low to high, there must be an initial trigger to cause the state to configure correctly and enable correct event triggers - if a trigger and reset is not executed at status change the next state change will fail to raise an alarm/event

Cameras which now support both High and Low status are:

- Illustra Pro 2MP / 3MP / 5MP Fixed Mini-Dome
- Illustra Pro i625 PTZ, 30x PTZ
- Illustra Flex Gen 2, Gen 3, and Gen 4 Series
- Illustra Pro Compact and Micro
- Illustra Pro Gen 3 and Gen 4 Series
- Illustra Pro Bullet LT, Micro, Compact
- Illustra Pro and Pro Gen2 12MP FE
- Illustra Flex PTZ
- Illustra Flex IR PTZ
- • Illustra Flex i600F or i800F already offered this feature in previous releases.
- • As NVRs are upgraded please review DIO configurations of all cameras

TrickleStor

VideoEdge 5.3 now supports TrickleStor integration with cameras running enhanced security.

Adding cameras with TCP mode will not

Product code	Firmware requirement
Illustra Pro 2MP, 3MP & 5MP Mini- Dome IPS02Dxxxxxx IPS03Dxxxxxx IPS05Dxxxxxx	1.3.2.C17223A1581
Illustra Flex 3MP& 8MP (flex2) IFS03Dxxxxxx IFS03Dxxxxxx IFS03Bxxxxxx IFS03Xxxxxxx IFS03Cxxxxxx IFS08Dxxxxxx IFS08Dxxxxxx IFS08Bxxxxxx IFS08Xxxxxxx IFS08Cxxxxxx	SS004.01.03.00.0704
Illustra Pro 2MP / 3MP Compact IPS02CFOCWST IPS03CFOCWST	SS005.01.04.00.0037
Illustra Flex IR PTZ	From release
Illustra Pro3 Series	From release
Illustra Pro4 Series	From release
Illustra Flex4 Series	From release

Integration with Illustra enhanced security feature

For more information, see VideoEdge configuration with Illustra cameras running Enhanced Security Mode.

Default security group auto-detect HTTP authentication type

From VideoEdge 5.0, Core iAPI3 handler default security group can now auto detect HTTP authentication type and set according to camera configuration; this eliminates the need for end user to create security groups for authentication types.

MJPEG usage consideration

MJPEG video does not use any temporal compression but uses spatial compression. This makes its bandwidth requirements much greater than H.264.

General recommendation:

Maximum Possible Quality Setting: 100

Recommended Maximum Setting: 90

Recommended High Quality Setting: 75

Recommended Medium Quality Setting: 55

In addition to the above, MJPEG at high resolution and frame rate will use a very large amount of bandwidth. For high resolution, the following is recommended:

i825 Fisheye		
Resolution	**Frame rate**	**Recommended max quality**
1936 x 1936	14 fps	60
1920 x 1080	15 fps	70

i825 Fisheye		
Resolution	**Frame rate**	**Recommended max quality**
1920 x 1080	7 fps	80
1600 x 900	15 fps	75
1600 x 900	7 fps	85
1280 x 720	15 fps	80
1280 x 720	7 fps	90
960 x 540	12 fps	70

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i625 PTZ/ Pro PTZ		
Resolution	**Frame rate**	**Recommended max quality**
1920 x 1080	30 fps	60
1920 x 1080	15 fps	70
1920 x 1080	7 fps	80
1280 x 720	30 fps	70
1280 x 720	15 fps	80
1280 x 720	7 fps	90

General special points

Due to the slow response from the camera APIs and the time out set on VideoEdge some cameras may not add using HTTPS. If this issue occurs please use the following work around. Add camera via HTTP to VideoEdge > Change camera to HTTPS on camera webpage > Move camera on VideoEdge to a security group with the correct security settings.

- VideoEdge Configuration Stream may fail when user is streaming live video on the camera web interface and setting up streaming configuration on the VideoEdge at the same time. It is advisable not to stream live video on the camera web interface while configuring camera streams on the VideoEdge.

- Video live streaming on the camera's web interface may fail to start if the camera web interface is left open during the VideoEdge configuration. User should log out of the camera then log back in again.

The v5.7.100 camera handler is only compatible with VideoEdge v5.7.0.628 or higher. If you have an older version of the VideoEdge v5.7 software, upgrade to v5.7.0.628 or higher before you install any new camera handlers.

Camera limitations, known issues and special points

Illustra 625 PTZ / Pro PTZ:

i625 VideoEdge Image Settings - Auto Focus and Auto Iris values on the VideoEdge GUI are only able to send a enable Auto command. These will not show current status of the feature. The user can set manual iris and focus on the victor live surveillance pane. To check status of auto focus/ iris users should use the i625 camera web interface.

d 4.4. i625 PTZ Day/Night controls are currently available on the camera web interface only.

Dry Contacts and Edge Based Motion Events will always be sent by HTTP even when the camera is set to HTTPS.

Dry contacts will only support physical state changes

In some instances if the i625 PTZ camera is left offline (added to the VideoEdge but powered down) for a prolonged period of time while still configured on the VideoEdge, once reconnected the camera may fail to display PTZ directional commands in victor Client. This is due to a delay in command request/response. In order to resolve this issue either remove and re-add the camera again or restart the VideoEdge services (please note this will cause a few minutes of video loss on all cameras on the VideoEdge).

Illustra 610 Compact Series, Pro LT Bullet, 2MP Micro

Due to a bandwidth limitation it is advisable not to configure the camera to MJPEG 30fps 1080p. If this configuration is required it is advised to lower the quality to 50.

When corridor mode is configured on a camera streaming at a high resolution the camera will stream at half of the configured frame rate.

Corridor mode support: the VideoEdge “Rotate Image” is limited to 0 ~ 360 degree. Therefore rotating -90 degree with the camera in corridor mode is equal to rotating 270 degree in the VideoEdge.

When the user adds a camera to the VideoEdge the Bitrate control values become unchecked in the camera web interface. This does not affect actual bitrate - what is requested from the VideoEdge is still received. This also happens when changing Bit Rate Control on the VideoEdge GUI

The Compact Mini-Dome and Mini-Bullet use 'Stream Priority' for dual streaming. The resolution / fps of Stream 2 will be automatically lowered depending on the settings of Stream 1, to remain within the capabilities of the camera. If a user selects resolution / fps settings which are too high for the camera to accommodate, the VideoEdge will disregard the user's setting and set lower resolution / fps on Stream 2.

It is advisable to first set Stream 1 to desired settings after adding the camera to the VideoEdge and then setting Stream 2.

As the camera is always running 2 streams even when no user requires the secondary stream, to set single stream MJPEG with high resolution and fps, the user can enable dual stream on VideoEdge, configure the stream codec/resolution/fps/quality for Stream 1, and then configure Stream 2 to lowest resolution/fps/quality. Once Stream 2 is configured the user can disable Stream 2 on the VideoEdge.

Edge based motion detection event and will only be available for selection on the VideoEdge when motion detection feature is enabled on the camera. These cameras appear to support edge motion detection metadata via the VideoEdge alarms page however motion metadata is not supported by these cameras.

Illustra IP PVM

The IP PVM camera uses 'Stream Priority' for dual streaming. The resolution / fps of Stream 2 will be automatically lowered depending on the settings of Stream 1, to remain within the capabilities of the camera. If a user selects resolution / fps settings which are too high for the camera to accommodate, the VideoEdge will disregard the user's setting and set lower resolution / fps on Stream 2.

Due to high bandwidth, frame loss may be observed when streaming MJPEG. To overcome bandwidth issues, it is recommended to reduce MJPEG quality setting (<=50) This can be done via the VideoEdge Quality drop down menu.

When changing more than one stream configuration property on the VideoEdge, the model displays as “Unknown.” This is due to the camera taking longer to respond and therefore the VideoEdge may time out. If this occurs, it is recommended to refresh the page.

On rare occasions, after changing stream configurations, victor would give video loss and not resume. This was due to the camera becoming unresponsive when changing stream settings. To fix the problem, a camera reboot is required.

The camera and VideoEdge supports 1 dry contact input but as hardware does not have the capability to configure dry contacts, this feature cannot be utilized.

Due to low sensitivity, the automatic day/night mode may not automatically change in certain light levels. This sensitivity can be adjusted on the camera web interface by increasing the sensitivity level via the Picture Settings page. (Video - Picture Settings)

Illustra Flex

The resolution of the second stream can't be higher than the first stream's resolution.

When the resolution of the first stream is 2048 x 1536 or 2304 x 1296, the maximum frame rate is 12 fps on PAL and 15 fps on NTSC.

The resolution range of stream II depends on the current resolution of stream I for example when the user selects a 3MP resolution they are only able to select CIF on stream 2.

The camera supports 4 motion zones. However it cannot determine which zone has been triggered. Therefore with regards to Edge Motion on the VideoEdge, it cannot determine the zone either.

Due to the functionality added to VideoEdge 4.5.1, it may take longer for devices to load on the VideoEdge device list and the functions and streams page.

When a camera is using "digest" as the Video Server Authentication Type, this camera can't be discovered by VideoEdge and even it can't be added to VideoEdge manually. It's recommended to only use the "basic" Authentication Type.

If the HTTP security protocol (HTTPS / HTTP) protocol is changed the user must perform a software factory default first before adding camera to the VideoEdge. This protocol remains unchanged after a software default.

The user must not disable the second stream from the camera web interface once the camera is added to the VideoEdge. Audio depends on this second stream.

Illustra Flex iAPI3 support

As part of the Flex Firmware 2.0.13 we now have added support for Illustra API3 handler. The new API3 handler will allow Flex 1 megapixel camera to now support 2 codecs (H.264 and MJPEG) selection on a single stream when integrated with the VideoEdge.

To connect the Illustra API3 handler with VideoEdge, please use the following steps:

1. Remove the camera from the VideoEdge
2. Upgrade the camera to FW 2.0.13 using the camera web interface or Illustra Connect Tool.
3. Add the camera back on to the VideoEdge
4. To continue using the Illustra Flex Handler -

Option 1

You are not required to upgrade the camera to FW 2.0.13 or above

Option 2

1. While the camera is configured on VideoEdge with FW 1.39, perform a firmware upgrade using the camera web interface or the Illustra Connect Tool. Do not remove the camera from the VideoEdge

Once the camera is running FW 2.0.13 or above, if deleted from the VideoEdge it will automatically start using Illustra API3 handler when added back on to the VideoEdge

In order to enable a wider support of resolution for stream 1 and 2 – the third stream must be disabled.

The range of Sharpness is from 0 to 15 in Illustra Flex cameras, this is converted to 10 to 100 in the VideoEdge.

The range of DayNight mode is “Auto”,”Color” and “BW” in Illustra Flex cameras, this is converted to “AUTO”,”DAY” and “NIGHT”.

The range of Wide dynamic is “OFF”,”Low” ,“Mid” and “High” in Illustra Flex cameras, this is converted to 0 to 100 in the VideoEdge.

Illustra Pro Fixed Mini-Domes

The camera supports four types of image rotation: None / Mirror / Flip/ Mirror & Flip while VideoEdge only supports None and Mirror & Flip. So when the camera is using Mirror or Flip, the Rotate Image options on VideoEdge image setting page will not be available any longer.

Dry contacts will only support physical state changes

The camera supports one touch focus – the operation can also be invoked via VideoEdge or victor by using the Autofocus commands

The camera has a mechanical zoom and focus that can be controlled remotely, by default the camera will add with these options disabled (only offering vPTZ on victor) if manual zoom and focus is required, then the “enable PTZ” option must be selected under the PTZ tab in VideoEdge camera configuration page

A power cycle of the camera will reload the last configuration saved on previous reboot – this may lead to a discrepancy between camera stream profile and VideoEdge camera stream configuration which may lead to camera becoming unresponsive. To resolve this issue, please remove the camera from the VideoEdge, reboot/power cycle the camera, configure the stream, reboot the camera again and add to the VideoEdge. In order to prevent this from happening, it is recommended to reboot camera following a stream configuration.

The camera motion detection only works when a suitable H.264 stream is running in the camera. This suitable H.264 stream needs its width less than or equal to 1920 x 1140 or lower.

If user has configured a Motion detection alarms or metadata, then user changes the video stream settings on camera web page and making the suitable H.264 stream unavailable, the motion detection will not work any longer. The Motion detection alarms and metadata options on VideoEdge alarm page will disappear accordingly as well, but it will still show for a while until user refresh the VideoEdge page after 30s.

Face detection is analyzed using the entire field of view of the camera, while motion detection will require user to draw a Region of interest

How to get Motion Detection Edge analytics retaining camera’s highest resolution stream connection to recorder

VideoEdge

Camera @factory default

Default stream configuration

Stream1 H.264 3MP =2048 x 1536/ 5MP =2592 x 1944

Stream 2 H.264 1920x1080

No analytics enabled on Camera

Add camera to VideoEdge

Camera configuration will change to

Stream1 H.264 3MP =2048 x 1536/ 5MP =2592 x 1944

Stream 2 MJPEG 384 x 216

The above resolution will not allow for “MD Edge”

ⓘ **Note:** If analytics MD was enabled prior to adding camera to VideoEdge this will now be disabled – please follow steps below to enable again

Option 1

- Access VideoEdge function and stream tab configuration page
- Disable Auto configuration
- Now edit camera second stream back to Stream 2 H.264 1920x1080 or lower
- Enabled Motion Detection on camera web interface
- VideoEdge will now provide a choice for EDGE ANALYTICS under Video Analysis
- Select Edge Based from drop down and save
- Enter Edge analytics configuration
- Configure Edge for either MD metadata or MD alarms
- CONS of this option – victor will not avail of the low bandwidth MJPEG stream from the camera for resource management – meaning more than likely camera stream will need encoded if viewed in smaller panes

Option 2

- Access VideoEdge function and stream tab configuration page
- Edit camera second stream configured on VideoEdge back to Stream 2 H.264 1920x1080 or lower
- Access camera Enabled Motion Detection on camera web interface
- VideoEdge will now provide a choice for EDGE ANALYTICS under Video Analysis
- Select Edge Based from drop down and save
- Enter Edge analytics configuration
- Configure Edge for either MD metadata or MD alarms

ⓘ **Note:** CONS of this option – User is quite restricted at to what dual stream configuration it can choose – Stream 2 will need to be H.264 and at a resolution of 1920x1080 or lower.

Illustra 825 Fisheye:

- Illustra 825 Fisheye User can enable the PTZ through the VideoEdge admin interface on Device List, open the camera configuration page, put a check mark on "Enable PTZ" under PTZ tab and Apply. PTZ is only effective on active image streams.
- Edge Motion detection is supported on all streams on 1.0.3 firmware (Fisheye, Panorama and Active Image).
- The Illustra 825 Fisheye needs to be fully configured before being added to a VideoEdge.
- Changes to camera mount (changing between wall and ceiling), image source (changing between Fisheye, Panorama and Active streams) and factory defaulting will require the camera to be removed from the VideoEdge and added again. This is due to these actions changing number of video channels and their configuration.
- In order to allow the simultaneous fisheye, panoramic or Active Image views, the camera will be recognized as an encoder when added into the VideoEdge. It will show up as either a 2 (fisheye + panoramic) 3 (fisheye and 2 active images) or 5 (fisheye + 4 active image) channel encoder depending on the stream configuration on the camera.
- The camera supports dual stream on active stream only - the secondary stream is limited to a single stream of MJPEG 7 fps at the same resolution as the main stream - when dual streaming, it is necessary to always have both streams at the same resolution or issues may arise. For dual-streaming it is advisable to set the H.264 stream to the desired resolution before enabling the MJPEG stream.

- Due to camera behavior, when CBR bit rate is set to lowest in range (16) the camera will not stream video.
- When configuring a second stream/ metadata stream for the i825 it if configuring multiple channels - we recommend to enable these individually and not as a batch, and wait until each stream becomes available before continuing on to the next one.

Illustra Pro 5MP Fisheye firmware 3.0 VideoEdge NVR integration with new firmware features on 3.0.0.B20593AD907

Firmware 3.0.0.B20593AD907 reintroduces four active image sources to the Illustra Pro 5MP Fisheye. Each supported image source is eligible for dual streaming. It also provides a new image source Quad View.

- This document details how to restore four active images or to add Quad View to a VideoEdge NVR.
- Prerequisites
- Firmware file: i825-3.0.0.B20593AD907.tar.gz.
- No new handlers are required to support this new Firmware.
- Solution
- Upgrading to Firmware 3.0 does not impact the existing configuration. If no changes are required on the image sources on the camera, then upgrading the camera on VideoEdge requires no other action. If upgrading to Firmware 3.0 and the camera configuration image source requires modification then please follow the steps outlined below:
- After you complete the firmware upgrade, remove the Pro 5MP FE cameras from the VideoEdge NVR.
- Open the Pro 5MP FE camera's web interface, and select the new configuration:
- Select the new Quad image
- Select four Active streams
- Close the Pro 5MP FE camera's web interface, and add the camera to the VideoEdge NVR. This adds all channels as configured above with dual stream capability.

Known limitations

Quad View does not support vPTZ on victor integration. Quad view vPTZ control is only supported through the camera's web interface.

Stream Combinations FW 3.00

Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Dual Stream	Dual Stream	Dual Stream	Dual Stream	Dual Stream
Fisheye	Fisheye	Not Available	Not Available	Not Available
Fisheye	Ceiling Panorama	Not Available	Not Available	Not Available
Fisheye	Wall Panorama	Not Available	Not Available	Not Available
Fisheye	Active Image X	Active Image X	Active Image X	Active Image X
Fisheye	Quad Image	Not Available	Not Available	Not Available
Ceiling Panorama	Fisheye	Not Available	Not Available	Not Available
Ceiling Panorama	Ceiling Panorama	Not Available	Not Available	Not Available
Wall Panorama	Fisheye	Not Available	Not Available	Not Available

Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Wall Panorama	Wall Panorama	Not Available	Not Available	Not Available
Active Image X	Fisheye	Active Image X	Active Image X	Active Image X
Active Image X	Active Image X	Active Image X	Active Image X	Active Image X
Quad Image	Quad Image	Not Available	Not Available	Not Available

Illustra Pro 12MP HD FE Fisheye:

The FE unit will add to the VideoEdge as a single channel camera, offering dual streaming of the image source that is currently selected on the GUI. For more information about available image source and resolutions, refer to the camera manual.

It is necessary to set Image Sources, De-warping methods and Mounts before adding camera to VideoEdge. If a change to any of the above is required while camera is connected to VideoEdge, remove/ configure the camera, and then add it back to the VideoEdge

The unit will offer a image sources with multiple ePTZ panes (a quad ePTZ on ceiling mode and Combi with 2 ePTZ on Wall mount) however VideoEdge & victor cannot offer PTZ support for these, ePTZ will only be supported on a single Active image .

PTZ Pattern is not currently supported on these units - only Presets will be supported in ePTZ VideoEdge victor integration.

The camera only supports Motion Detection analytics and Edge Motion Detection alarms when a Fisheye image source is active. Using any other image source will disable Motion Detection analytics and will not provide support for Edge Motion Detection events

Illustra Flex PTZ:

The camera will only offer integration support for auto iris - no manual iris control is available via victor .

If the audio volume is changed on the VideoEdge admin web page and saved it may display the old value but the volume will have been changed.

Illustra Flex2 3MP, 4K and Flex IR PTZ series and Illustra Pro Compact (ss005)

Limitations

- The camera will not support streaming dual MJPEG streams. The camera will either stream a H.264/H.264+, MJPEG dual stream combination or a single MJPEG or H.264/H.264+
- The camera will offer clip recording/TrickleStor only on H.264, H.264+ Intellizip. No other codecs are supported at present
- Camera will not support TrickleStor Integration when recorder is streaming/connected via TCP protocol

Known issue

- When camera is set to Digest or on Enhanced Security, DIO Alarm events and Edge Analytics Events/Metadata will not work unless "Video over HTTP" is enabled on camera web interface
- As the VideoEdge is able to only support 1 continuous Metadata Stream, if a Metadata stream is disabled on camera while Active on VideoEdge, the Server will not know to close this stream and will not provide a new Metadata connection. If changing Edge Metadata stream, make sure this is disabled on NVR prior to reconfiguring camera.

Illustra Pro Gen 3 cameras

Limitations

- The camera will not support streaming dual MJPEG streams. The camera will either stream a H.264/H.264+, MJPEG dual stream combination or a single MJPEG or H.264/H.264+
- The camera will offer clip recording/TrickleStor only on H.264, H.264+ Intellizip. No other codecs are supported at present
- Camera will not support TrickleStor Integration when recorder is streaming/connected via TCP protocol
- If a Video Intelligence is added to the camera while it is on the server, the metadata cannot be configured until the camera is removed and then re-added to NVR

Known issues

- When the camera is on Enhanced Security, DIO Alarm events and Edge Analytics Events/ Metadata will not work unless "Video over HTTP" is enabled on camera web interface.
- Setting the camera to Corridor mode (+90 or -90 Degrees) via VideoEdge will not issue a Reboot command to finalize the feature. Reboot camera manually to complete setup.
- As the VideoEdge is able to only support 1 continuous Metadata Stream, if a Metadata stream is disabled on camera while Active on VideoEdge, the Server will not know to close this stream and will not provide a new Metadata connection. If changing Edge Metadata stream, make sure this is disabled on NVR prior to reconfiguring camera.

Illustra Pro Gen 4 cameras

Limitations

To fully use the Object Classification features for the Pro 4 range, upgrade your VideoEdge to v5.7 or higher.

Thermal models do not support MJPEG streaming from the primary stream of the first channel, add the secondary stream to VideoEdge to utilize MJPEG.

Pulling too many streams from a Thermal camera can interfere with the camera’s live view webpage. To prevent this, limit the number of streams to one per channel on VideoEdge.

When the 12MP Fisheye is configured to Edge Dewarping mode, for the camera to use VideoEdge Smart Search, configure the camera’s second stream to an Image Source that supports MJPEG.

American Dynamics IP SpeedDome

Serial number

VideoEdge will use the camera’s MAC address as the camera serial number.

Supported key functions

- Video Streaming 4 max
- Video Codec – MJPEG, MPEG4 and H.264
- Audio Streaming – Audio codecs are AAC, G.711 ulaw and G.711 alaw. No PCM audio stream
- Mechanical Pan and Tilt and Optical Zoom
- Dry Contact Events – Up to 4 dry contact events are support. The camera is polled for dry contact event at 30s interval.
- Query Device

PTZ methods

- PTZSpeed

- PTZNudge: Zoom, Pan, Tilt
- PTZFilp
- Preset: Add, Set, Select, Clear Preset
- Pattern: Select, Record (Begin, End, Cancel), Clear

Required network ports

Port 5001 is for IDP (command and control)

Port 554 is for RTSP

Default username and password

User name: admin

Password: admin

Bandwidth efficiency

Bandwidth efficiency has been improved for American Dynamics IP SpeedDome cameras running firmware version 2.0 or later.

The VideoEdge will use an algorithm to control video quality according to the camera firmware version. If version is less than 2.0, the video quality will be altered by changing cameras quality value. If version is 2.0 or later, the video quality will be altered by changing the camera's bitrate value. The conversion from quality to bitrate is:

Camera firmware	**Approx Bitrate at Quality Setting (Max FPS, Max Resolution)**				
	20	**40**	**60**	**80**	**100**
PAL v1.x firmware	1,140,000	5,240,000	9,220,000	16,780,000	25,160,000
NTSC v1.x firmware	1,180,000	5,320,000	8,160,000	15,100,000	24,750,000
PAL v2.x firmware	278,600	557,000	1,080,000	2,130,000	4,220,000
NTSC v2.x firmware	290,000	550,000	1,070,000	2,120,000	4,200,000

Since the VideoEdge uses CBR to control bitrate, the bandwidth of H.264 and MPEG4 are the same. This handler does not support VBR.

Limitations

- Only one audio stream (G711aulaw or G711mulaw) can be used at one time
- Dual video streaming supports H.264, MJPEG and MPEG4 / MJPEG, but does not support H.264 / MPEG4.
- No PCM audio stream
- Unable to add an IP SpeedDome if it is beyond the IP broadcast range of the VideoEdge
- If Auto Flip is disabled, then the amount of distance of tilt down will be larger when it is close to -90 degrees than other positions.

- If Auto Flip is enabled, then the tilt down operation in VideoEdge will lock the motor which make auto flip failure because the tilt down in VideoEdge is not continues (e.g. moveBy) and the moving amount of distance is very tiny.
- Camera digital PTZ is not supported in this release. So it is not implemented normalization for digital PTZ part.
- In H.264 single stream, the maximum frame rate is 20fps @ D1 resolution @ quality 70.
- The maximum frame rate in dual streaming mode is:
  - When codec is H.264, MJPEG:
  - The maximum frame rate for the H.264 stream is 15fps @ D1 resolution @ quality 70, or 25fps @ 2CIF resolution @ quality 70, or 25fps @ D1 resolution @ quality 40; while the secondary MJPEG stream is 7fps @ CIF resolution @ quality 70
  - When codec is MPEG4/MJPEG:
  - The maximum frame rate for the MPEG4 stream is up to 30fps at any resolution and quality if the secondary MJPEG stream is set to 7fps @ CIF resolution @ quality 70. If the secondary MJPEG stream is set to 25fps @ D1 resolution @ quality 70, then the frame rate for the MPEG4 stream is up to 25fps @ D1 resolution @ quality 90.
- The zoom speed is fixed.
- Audio will not work unless it is enabled through the camera web interface.
- On victor Client surveillance window, the Iris Open Feature will adjust the Iris to Fully Open. If you require adjusting the Iris you can adjust the setting on the camera web interface.

Known issues

- When using IP Dome firmware 2.0.0.645 for streaming H.264 only, users should not use rewind instant play back with victor client. Users should use Search and Retrieve, or don't configure using a H.264 stream.
- The default values for some properties defined on VideoEdge are different from camera's default.
- The dry contact state always returns unknown.
- The definition of preset and pattern in VideoEdge might be changed by user via web-client.
- The VideoEdge will not recognize any presets or patterns already on the dome when it is added to the VideoEdge.
- The VideoEdge will not recognize any presets or patterns added to the dome via its web interface and in fact the VideoEdge may overwrite them.
- Preset and pattern definitions made on the VideoEdge will be mirrored to the device, but not the other way around.
- Preset and pattern definitions should be retained in case of network loss or disconnection / reconnection.
- Preset and pattern definitions will not be deleted when the dome is deleted from the VideoEdge.
- Clients should show only the presets and patterns that have been defined using the VideoEdge (not all 96 slots, defined or not). Presets and patterns defined through the device web configuration will not be shown
- When using the settings H.264 codec, D1 resolution, 25/30 (PAL/NTSC) FPS and the quality is above 90, video will freeze when opening Live View.
- Iris restore button does not work for when using surveillance with victor.

- If the camera loses power or network connection, after coming back online the Dry Contacts will not trigger. A user must disable and then re-enable Dry Contacts on the VideoEdge GUI (Go to Devices - Alarms) to restore the event alerts. Other configuration changes (to codec, fps, resolution etc) do not affect the Dry Contacts.
- In VideoEdge 4.6 the IP SpeedDome may not use auto-configuration to configure the second stream. The Second stream may need to be enabled manually via the VideoEdge GUI.

Note: Please refer to the AD IP SpeedDome Release Notes for additional information.

American Dynamics Illustra Flex Series Wireless Cube and 1 & 3 megapixel Box, Bullet and Mini -Domes Firmware Version 1.39

Supported camera firmware

- For Illustra Flex Box, Bullet, Indoor and Outdoor Mini-Domes firmware 1.39
- For ADCi600F-W012 firmware 0.0.10 or later

Illustra Flex iAPI3 support

As part of the Flex Firmware 2.0.13 we now have added support for Illustra API3 handler. The new API3 handler will allow Flex 1 megapixel camera to now support 2 codecs (H.264 and MJPEG) selection on a single stream when integrated with the VideoEdge.

The new API3 handler will allow Flex 3 megapixel camera to now support 2 codecs (H.264 and MJPEG) selection on a single stream or dual streams when integrated with VideoEdge.

To connect the Illustra API3 handler with VideoEdge, please use the following steps:

1. Remove the camera from the VideoEdge
2. Upgrade the camera to FW 2.0.13 using the camera web interface or Illustra Connect Tool.
3. Add the camera back on to the VideoEdge

To continue using the Illustra Flex Handler -

Option 1

- You are not required to upgrade the camera to FW 2.0.13 or above

Option 2

- While the camera is configured on VideoEdge with FW 1.39, perform a firmware upgrade using the camera web interface or the Illustra Connect Tool
- Do not remove the camera from the VideoEdge

Note: Once the camera is running FW 2.0.13 or above, if deleted from the VideoEdge it will automatically start using Illustra API3 handler when added back on to the VideoEdge. If the current handler 4.5.1.18008 is not installed on the VideoEdge then the camera will be recognized as a generic Illustra API3 camera.

Supported key functions

- Video Streaming - Single and Dual(H.264+MJPEG)
- Audio Streaming - G.711 ulaw
- Dry Contact Events
- Query Device
- Edge Based Motion Detection Events

Unsupported key functions

- Power Off
- Get Log
- Factory Defaults
- Find Device
- Reboot
- Alarm out
- Edge Based Motion Detection Metadata

Default ports

- Port 80 for HTTP
- Port 554 for RTSP

Default username and password

- Username: admin
- Password: admin

Camera serial number

VideoEdge will use the camera’s MAC address as the camera serial number.

Video streaming feature

Single and Dual Stream - Handler supports H.264 and MJPEG.

Audio stream feature

Handler supports G711mulaw audio

Event stream feature

HTTP Server push functionality available in Illustra Flex is used to efficiently obtain the dry contact event and motion detection event. The maximum number of dry contact events and Edge Based motion detection supported by each camera family:

Model	Max No of Dry Contact Supported	Edge Based Motion Detection Supported
ADCi600F-W012	0	Yes
ADCi600F-X002, ADCi800F-X002	1	Yes
ADCi600F-B521, ADCi800F-B521	1	Yes
ADCi600F-D111, ADCi800F-D111	1	Yes
ADCi600F-D021, ADCi800F-D021	1	Yes
Generic Camera	0	No

Table 40: Limitations

Model	Limitations
All cameras except ADCi600F-W012	The resolution of the second stream cannot be set higher than the first stream's resolution.
ADCi800F series	The camera does not support dual stream when the resolution of the first stream is 2048 x 1536 / 2304 x 1296.

Table 40: Limitations

Model	Limitations
ADCi800F series	When the resolution of the first stream is 2048 x 1536 or 2304 x 1296, the maximum frame rate is 12 on PAL and 15 on NTSC.
All Cameras	The handler is designed that the first stream codec is always H.264 and second stream codec is always MJPEG.

Table 41: Known issues

Model	Known issues	Workaround
All	You cannot edit "Edge Motion Detection" on VideoEdge alarm page of a camera which has "Edge Based" video analysis enabled if another camera is located in slot 1 and is offline.	After launching the VideoEdge "Alarms" page, wait for camera 1 to display the "No video" image before selecting another camera from the dropdown menu.
ADCi800F Series	Changing the first stream resolution back to 2048 x 1536 or 2304 x 1296 on dual stream mode, will not apply unless the second stream has first been disabled.	In order to enable the first stream with 2048 x 1536 or 2304 x 1296, the user must first disable the second stream.
ADCi800F Series	On VideoEdge, configuring the following maximum resolutions (2048 x 1536 or 2304 x 1296) the expected Maximum frame rate settings available will be: • For NTSC the Maximum frame rate = 15 fps • For PAL the Maximum frame rate = 12 fps	To obtain a higher frame rate use a lower resolution than 2048 x 1536 or 2304 x 1296.
All	The G711 audio is not synchronized with the video on local VideoEdge client. The audio is 0.5s faster than the video on live view	The audio and video are synchronized for download clip.

Special points

- After the camera is added to the VideoEdge, it is not recommended that the user changes any configurations from camera's web interface unless specified to do so.
- The camera will not add after password is changed and correct password group is selected. This issue happens intermittently. This is a VideoEdge issue.
- There are 6 profiles on the camera web page, but the VideoEdge only uses profile 1. Ensure profile 1 is set up prior to adding camera to VideoEdge.

- After the camera is Factory Defaulted from the camera web interface, the RTSP authentication is disabled. If the user wants the RTSP stream with authentication, the user must enable RTSP authentication on camera web page before adding to VideoEdge. (Setting Guide:Network Settings->RTSP->Authentication->Action).
- Before enabling "Edge based" (for Edge motion detection events) video analysis through the VideoEdge, you must first configure and enable motion detection, set the motion detection area and related parameters on the camera side.
- In the VideoEdge, the codec for stream 1 will always be H.264 and the codec for steam 2 will always be MJPEG. If you require a single MJPEG stream, switch the "Live", "Alarm" and "Rec" to the second stream
- For the ADCi800F, in order to support both 1920x1080 and 1280x720 resolutions you must reduce the resolution of the second stream to set both cameras streams to 1920x1080 resolution and then reduce the second stream to 1280x720 resolution.
- For the ADCi800F camera, when the resolution of the first stream is 2048 x 1536 or 2304 x 1296, the camera only supports single stream. The following points must be considered as a result of this limitation:
- - After the camera is added to the VideoEdge, the first stream works with 2048 x 1536 or 2304 x 1296, however there is only one stream configured on the VideoEdge. To use two streams simultaneously you must set the first stream resolution lower than 2048x1536/2304x1296.
  - If two streams are already live on the VideoEdge, you are unable to change the resolution of the first stream to 2048 x 1536 or 2304 x 1296. To run the first stream on 2048 x 1536 or 2304 x 1296, you must first disable the second stream.
- For the ADCi800F camera, when the camera is set at PAL and the first stream is 2048 x 1536 or 2304 x 1296, the maximum frame rate of the first stream is 12 fps on the VideoEdge.
- Changing the video settings on the ADCi600F-W012 camera it may take up to 20 seconds for the stream to return if connected via wireless WAN. It may take up to 10 seconds if configured via a LAN.
- Slow shutter should be "OFF" in order to ensure stable and maximum frame rate (Image Parameters -> Exposure -> Exposure Mode -> Slow Shutter)

.

Illustra Essentials

Supported key functions

- Video Streaming – Single and Dual
- Video Codec – MJPEG and H.264
- Audio Streaming (camera dependent)
- Audio Codec – G711mulaw
- Dry contact events – HTTP server push is available in Illustra Essentials for use of obtaining the dry contact event (camera dependent)
- Edge Motion Detection alarms
- PTZ – Applies to cameras that have mechanical Pan, Tilt and Optical Zoom (camera dependent)
- Query Device
- Alarm output (camera dependent)

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: admin

Supported camera API and models

Model	Minimum camera firmware version
IES01CFACWSY / IES01CFBCWIY / IES01MFBNWIY	V2.420.0000.4.R.20150806
IES02CFACWSY / IES02CFBCWIY / IES02MFBNWIY	V2.420.0000.0.R.20150805
IES01D1OCWIY / IES01B1BNWIY IES02D1OCWIY / IES02B1BNWIY	V2.420.0007.0.R.20150715
IES01CFBCWIY / IES01MFBNWIY	V2.002.0001.20160227
IES02CFBCWIY / IES02MFBNWIY	V2.002.0001.20160227
IES01D1OCWIYA / IES01B1BNWIYA IES02D1OCWIYA / IES02B1BNWIYA	ESSE5.01.01.00.000x
IES02D1OCWIYB / IES02B1BNWIYB	ESSE6.01.01.00.000x
IES02CFBCWIYB / IES02MFBNWIYB	Esse7.01.01.00.0003
IES02D1OCWIYC / IES02B1BNWIYC	Esse7.01.02.00.0005

RTSP URL

Video Streamrtsp://<username>:<password>@<ip>:<port>/cam/realmonitor?channel=<channelNo>&subtype=0

Video Stream 2rtsp://<username>:<password>@<ip>:<port>/cam/realmonitor?channel=<channelNo>&subtype=1

Note:

<username> : Username, default value is admin.

<password> : Password, default value is admin.

<ip> : IP address of the Illustra Essentials camera.

<port> : RTSP port number, default value is 554.

<channelNo> : Channel number. It starts from 1.

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The specific Video stream feature characteristics by model families are:

Model family	Video stream feature
All Models	Dual stream: H.264 + MJPEG
Generic	Dynamically acquire from camera

Audio stream feature

The specific Audio stream feature characteristics by model families are:

Model family	Audio stream feature
All Models	N/A
Generic	Dynamically acquire from camera

Event stream feature

Handler uses HTTP polling mode to get the dry contact status. The maximum number of dry contact events supported by each camera family:

Model	Max Number of Dry Contact Supported
All Models	0
Generic	Dynamically acquire from camera

Special points

1. Before using the audio stream/dry contact/Edge Based, enable these features in the camera WebGUI (audio is associated to camera's main stream).
2. On the VideoEdge **Function & Streams** page, Stream 1 is associated with the camera's main stream; Stream 2 is associated with camera's sub stream.
3. Special Point - Bitrate / Bandwidth camera limitation, when the resolution or frame rate changes, the current bitrate may be changed automatically. It is because bitrate range varies with resolution and frame rate under CBR mode.

Limitations

Model	Limitations	Work around
All models	Camera can't be manually added to VideoEdge Device list via HTTPS. Reason: Camera limitation, the API response is very slow under HTTPS. The snapshot feature on the VideoEdge is not supported.	Add camera from VideoEdge **Discovered Devices** page. N/A
All 2MP models	H.264 Frame rate in only about 25 to 28 under NTSC when second stream is MJPEG Reason: Camera performance limitation	N/A

Known issues

Model	Known issues	Workaround
All models	When using edge-based motion detection, artifacts may be seen on screen when viewing live video at the time of motion. This only occurs when the camera is set to dual-stream and the Record and Alarm streams are set as different streams. Recorded video does not display artifacts.	Set the Record and Alarm stream as the same stream.
All models	When adding a camera, “No VE Text response after waiting 5000 milliseconds” will appear but the action will still be successful.	N/A
Varifocal cameras	Sometimes, the VideoEdge fails to change resolution and framerate on stream 1 at the same time.	Click **Save** again.

Tyco Encoders

Supported key functions

- Video Streaming - Single and Dual
- Video Codec - H.264, MJPEG
- Audio Streaming - The supported audio codec is G711mu
- PTZ - "Enable PTZ" must be manually enabled by the user for analog cameras that have mechanical Pan, Tilt, and Optical Zoom
- Dry Contact Events
- Alarm out
- Query Device
- Edge Device - Motion Detection

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

Username: admin

Password: admin

Camera serial number

VideoEdge will use the camera’s MAC address as the camera serial number.

Supported camera API and models

Model	Minimum camera firmware version
TYCE4C-N	1.11_190805
TYCE1C-N	1.11_190805
TYCE4C-N	1.11_190805
TYCE1C-N	1.11_190805

Video stream feature

The specific Video stream feature characteristics by model families are:

Model family	Video stream feature
All models	Dual stream: H.264, MJPEG

Audio stream feature

The specific Audio stream feature characteristics by model families are:

Model family	Audio stream feature
All models	G711mulaw

Special points

Note: If the camera is NTSC or PAL, the frame rate may be limited. This is a limitation of the input video type.

Limitations

The camera adds to the VideoEdge with 7 FPS as an option on the MJPEG secondary stream. However, the camera cannot stream more than 2 FPS. This is a camera limitation.

ACTi Corporation

Supported key functions

Video Streaming

Query Device

Dry Contact Events

Reboot

Unsupported key functions

Audio Streaming

PTZ

Power Off

Get Log

Restore Factory Defaults

Find Device

Minimum firmware

For ACM models – v3.13.16-AC

For TCM models – v4.11.09-AC

Required network ports

Port 80 is for HTTP

Port 7070 is for RTSP

Default username and password

Username: admin

Password: 123456

Supported resolution

All resolutions less than or equal to 1280x720 are dynamically acquired by the camera.

Limitations

- Resolutions larger than 720p are unsupported due to an incompatible algorithm used by the camera when the stream's resolution is larger than 720p.
- HUE feature on all cameras is unsupported, due to the manufacturer’s recommendation not to change HUE and not to use VIDEO_HUE command for ACTi cameras.
- Due to camera limitation, the actual frame rate might be higher or lower than the requested frame rate. (Please refer to ATP results).
- For some cameras, RTP stream is not enabled by default. The handler will enable it before creating the stream pipeline. Do not change the stream method while configured on the VideoEdge.
- By default, the B2 header function of the camera is enabled, which is not supported by the VideoEdge. Therefore, the handler will disable this function when a camera is added to the VideoEdge. Don't enable B2 header while camera is added to VideoEdge.
- Dry contact active state in VideoEdge is read-only, this cannot be modified.
- The scope of the image will be changed with a change of resolution, but the base pointer is neither the image’s corner nor center.
- The handler will use frame rate as GOP. This is because when the camera streams on the RTP protocol, GOP is fixed to 0, which means 1 key frame per second.
- Due to the camera's frame rate limitation. When single/dual streaming the available frame rates are dependent on several factors e.g. a codec or resolution change may cause the frame rates on both streams to change.
- Due to the camera's limitation, camera will add to VideoEdge with a lower frame rate than supported. When adding a dual streaming camera to the VideoEdge both streams’ codec will be set to H.264 highest resolution. Even if the second stream is not actively configured on the VideoEdge, it is still affecting full frame rate performance on stream one – in order to extend stream one frame rate the user is required to lower the resolution on stream two.
- The handler will restart the stream when the resolution or codec is changed, which may cause a video loss for a few seconds.
- The contrast in camera web interface displays as 0-100, but the vendor asked us to support 1 to 100, so the contrast supported in VideoEdge is 1-100.
- Focus and iris functions are excluded from support, because all cameras do not support them. However it is possible that future cameras will support these functions.

- WDR feature is currently not supported due to the related API VIDEO_WDR not working correctly on the official release.
- If the frame rate is set to variable mode in the camera's web interface, the VideoEdge field for frame rate will automatically become read only.
- The ACTi generic camera driver will not support the following features:
- Image settings:
- Lens day/night mode
- Brightness
- Contrast
- Sharpness
- H.264 stream
- Resolutions larger than 720p are unsupported. Should a camera support a higher resolution, this will not be available via VideoEdge.

Known issues

The TCM3511 has an issue with Reverse playback in the VideoEdge client. The user will experience a stutter with the H.264 stream due to the first key frame being received every second.

Interval between video frames (frame spacing) is not always stable, but video is not affected - no video freeze, stutters or pixelation have been observed.

Due to camera stream limitations, in dual streaming a change in codec or resolution on one stream may cause another stream’s frame rate to be changed. The handler is not able to force the VideoEdge camera details to refresh the web page, therefore, the displaying frame rate may not be right. Refreshing the web page will update the properties.

The minimum frame rate recommended for ACTi stream configuration should be above 3 fps, due to 1 fps or 2 fps causing the following issues:

VideoEdge and victor refresh frequently (including the Video panes refreshing)

The time stamp interval between the nearest frames is incorrect.

After an upgrade from VideoEdge 4.5.0 to VideoEdge 4.5.1 for ACTi camera, some of the camera configuration settings may change. If possible please note down the camera Configuration of the ACTi cameras before you upgrade. After the upgrade, please check your settings are correct or adjust accordingly.

Error messages

- Sometimes adding an ACTI camera onto the VideoEdge may fail with a timeout message. This is caused by 1) APIs for codec and frame rate work very slowly. Codec API may take up to 4.9 seconds and frame rate API may take up to 2.5 seconds. Or 2) as specified by ACTI support, frequent API calls may cause the camera to work abnormally.
- Resolution: Add camera to VideoEdge again.
- To avoid this issue, it is recommended configure camera as following before add to VideoEdge:
- ACM: @ MJPEG @Highest-Resolution @highest-fps
- TCM: Dual stream @H.264 @ Highest-Resolution @highest-fps
- Restoring factory defaults may cause the camera to 1) crash; 2) VideoEdge report timeout when adding it into VideoEdge; 3) Camera to report “Please contact your provider. Error code: 00000001, other error” when trying to connect to the camera interface.
- Resolution: Hardware reset

- Camera may crash when POE/power cable are unplugged and plugged in again. When the issue happens, the camera's web interface may display "01072915212: Rtsp:Error. Create socket 01072915214:Rtsp:Error. create socket". Resolution: Power Cycle first. If problem persists, carry out hardware reset.
- Sometimes the camera's web interface will report "Error: Streaming Engine is not running", when the issue happens there is no stream given out. The camera can be restored after a manual reboot. Resolution: Hardware reset
- Sometimes modifying contrast or saturation will cause the camera to crash, when this happens, the user may receive the following message on the camera's web interface: "Please contact your provider. Error code: 00000001, Other error". Resolution: Hardware reset

Special points

- Do not factory default unless necessary, because sometimes it may cause many issues (refer to above known issues and limitations)
- Do not modify the camera's root user name. This is because the VideoEdge only supports a password change.
- Do not add one camera into two or more VideoEdge NVRs.
- When the camera is added to the VideoEdge, it is recommended not to change settings from the camera web page.
- When the camera is added onto the VideoEdge, do not turn off "stream on RTP" setting, this will cause camera stop providing a live RTP stream.
- When the camera is added into VideoEdge, do not change B2 header setting, this will cause the VideoEdge to be unable to parse the stream.
- Only constant frame rate mode is supported in RTP streaming due to camera limitation.
- The VideoEdge Video smoothing function is enabled on this handler because the VideoEdge stream refreshes frequently when it is disabled.
- VideoEdge will display 1 when the camera's contrast setting value is 0. Refer to above limitation for detail.
- Handler had hard coded the camera's connection count to 1. Because the connection count is missed in some cameras' response data.
- Before adding a camera onto the VideoEdge, it is recommended to set the settings as close as the handler defaults (H.264 / MJPEG 5fps 1280x720) , otherwise adding action may fail with a timeout error. Refer to above known issues.
- Some cameras may not contain "-" or ":" or spaces between the MAC address on the VideoEdge properties page. This is only a cosmetic issue.

Arecont Vision

Supported key functions

- The Arecont Vision AV8xxx uses four, two-megapixel cameras in 180˚ or 360˚ panoramic views. Models are available in a variety of options including H.264 or MJPEG video formats, Day/Night, Heater/Blower, recessed or IP66 housings
- Using the American Dynamics victor unified client, operators can view each image independently or combination of them in a multi-camera view in victor
- Video Streaming – Single and Dual
- Video Codec – MJPEG and H.264 (Note: AVxxx0 models only support MJPEG)
- Query Device
- Audio Streaming

- Dry Contacts
- Edge Motion detection

Note: Not all Arecont models support Dry contacts and Edge motion detection

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Required network ports

Port 80 is for HTTP

Port 554 is for RTSP

Port 443 is for HTTPS

Default username and password

Username: admin

Password: <no password required>

If Arecont camera fails to add successfully

Note: There is a camera firmware issue with **Firmware 65210 on all multi-lens cameras**. If the camera firmware is installed on the camera, follow the steps below to add the camera to NVR

.**Adding Arecont F/W 65210 cameras to VideoEdge**

1. Log on to the VideoEdge with softwareadmin credentials.
2. In the **Device Handler** list, navigate to the Pelco handler.
3. Disable the Pelco Handler.

   Note: This can interrupt streaming and recording, and any Pelco cameras stop working.
4. Log out of the VideoEdge Administration Interface and log on with a non-softwareadmin credential.
5. Add the Arecont cameras to the VideoEdge, and log out.
6. Log on to the VideoEdge with softwareadmin credentials and enable the Pelco handler.

   Note: A pop-up appears to warn about loss of recording while the handler is enabled.
7. Log out of the VideoEdge Administration Interface and log on with a non-softwareadmin credential.

Performance recommendation for Arecont Multi-Lens/Multi-Sensor cameras

- Dry contacts are not supported in all Arecont models.
- Edge Motion is not supported in all Arecont models.
- Streaming Performance issues. See Table below for recommended settings.

Note: The following table highlights the preferred Streaming configuration for Arecont Multi-Lens/Multi-Sensor cameras.

Due to camera performance issues, we recommend that you configure your Arecont Multi-Lens/Multi-Sensor cameras on VideoEdge to the following settings. The table highlights the data collected using various streaming configuration settings and its observations.

Performance recommendation for Arecont Multi-Lens/Multi-Sensor cameras			
Setting option	**Stream configuration**	**Performance**	**Recommended for minimal or reduced occurrences of video loss or dropped packets**
1	Single Stream @ H.264, Quality 35, Half resolution, 5 fps	Occasional occurrences of video loss or dropped packets (more frequent during low light conditions) on one or more channels.	Yes
2	Single Stream @ H.264, Quality 65, Half resolution, 5 fps	Some occurrences of video loss or dropped packets during the day compared to Setting Option 1 (more frequent during low light conditions) on one or more channels.	No
3	Dual stream. Stream 1 H.264, Quality 35, Full Resolution Stream 2 MJPEG, Quality 72, Half Resolution Motion Detection Enabled for Stream 2	Frequent occurrences of video loss or dropped packets during the day (both day and night) on one or more channels.	No

Limitations

- Arecont models unable to support HTTPS - This is due to a camera limitation
- Arecont models that support VideoEdge analytic modes - reducing the fps on the H.264 Stream will disable the VideoEdge analytic modes such as Motion Detection or Video Intelligence.
- All Arecont models - Higher video bit rate may occur under a low light condition, which may cause video loss.
- Arecont Models that support Dry Contacts: These are working but due to the nature of the method used to query the camera's dry contact state - we require the dry contact to be triggered for a second continuously (held together for more than one second then released) - This should not be a problem if they are wired for example: to a door as they gives enough time to query the dry contacts state.
- For models AV3356PMIR-SA and AV2355RS dry contacts are not supported.
- For AV08ZMV-300, AV05CLD-100, AV08Z-MV300, and its respective family cameras, Motion detection and Video intelligence are not supported, as the lowest resolution supplied by the camera is more than 1MP (1920x1080).
- Due to Arecont camera firmware issue, HTTPS is not supported with AV2355RS. AV08ZMV-300 and AV08ZMD-400 do support streaming H.264 with HTTPS.

- Camera Firmware limitation : For Arecont models AV08ZMxxx with firmware 1.9, MJPEG is disabled and is not supported on the camera. Therefore VideoEdge will not support MJPEG with camera firmware 1.9. Please reference the manufacturer Arecont camera release notes when an updated camera firmware will support MJPEG.
- AV2355RS : For fps stability (due to the camera performance issue) we recommend the fps setting of 12 fps with VideoEdge. Any other fps setting may result in large fps fluctuations, especially when using fps above 20 fps.
- AV3356PMIR-SA : For fps stability (due to the camera performance issue) we recommend the fps setting of 7 fps with VideoEdge. Any other fps setting may result in large fps fluctuations, especially when using fps above 15 fps.
- Unexpected video loss may occur when you configure two streams on an Arecont camera. To avoid this issue, disable auto configuration for the second stream on Arecont cameras
- When Arecont cameras are added via VideoEdge Auto Discovery, there may be issues with camera settings. It is recommended all Arecont cameras be added manually to the VideoEdge, as some older models of Arecont cameras cannot be found via Auto discovery.
- It is advised that the user does not configure the same camera on two VideoEdge at the same time. This is due to ssn accumulation in the streaming URL on the handler, therefore only one camera can be accessed by one VideoEdge at the same time.
- The Arecont 10MP camera(AV10XXX and AV40XXX), will not support VideoEdge motion detection as its lowest supported resolution exceeds VideoEdge limitations.
- Due to a QuickTime player limitation, for 10MP cameras, the video stream with a full resolution (3648 x 2752) can't be streamed on the VideoEdge web page.
- Streaming large amounts of data to QuickTime may cause a distorted image to appear. This is due to QuickTime or the network card on the host on which QuickTime is running, preventing large bit rate streams particularly during the start up of H.264 due to the bursting of all frames since the previous Key frame. This result may be a green/mosaic screen especially on motion scenes. This may occur for both live and historic playback on VideoEdge and victor client.
- The AV8xxx will be viewed with victor Client. Not all functionality is supported by the Web-Client.
- Due to a camera limitation, the actual frame rate may be lower than the requested frame rate.
- Due to a camera RTSP performance limitation, for AV8XXX series, the camera can only deliver approximately 2 fps per lens.
- Due to a VideoEdge performance limitation the max fps is limited to 30 for AV1115, AV1125, AV1315, AV1325, AV2115, AV2125.
- For Multi-Sensor 4 lens camera like AV8XXX, AV20XXX models it is highly recommended to set all four camera inputs to the same storage section in the VideoEdge. Mixing may cause mixed retention times for some inputs compared to others.
- In order to control bitrate of the H.264 stream the user can set quality levels via the VideoEdge camera stream detail page. The bitrate will change according to a number of factors: complexity, light change and movement in the scene. In a scene with a lot of movement at the lowest quality, the bitrate of the stream will be higher than in a still scene at the highest quality.
- Due to a camera limitation, the bitrate and quality cannot be set through the camera's web interface. The bitrate and quality values have to be included in the RTSP URL for them to work.
- When upgrading the camera handler pack, note that the parameters of video streams may be changed to the default values. It is recommended to recheck video codec parameters when upgrading or restoring configuration backups.
- Due to a camera limitation, for Arecont cameras all MJPEG only cameras (Arecont: AVxx00, AV8180, AV8360 - CBC: MP1A, MP2A, MP5A and MP8D-L4) will stream at a higher fps (reaching max fps) when setting to 15fps. fps of 14 and lower are not affected by this issue.

- VideoEdge 4.1 or above motion detection can only handle a resolution of 800 x 600 (or 800 x 592), not 1600 x 1200 (or 1600 x 1184) for AV8XXX cameras. (Maximum resolution for VideoEdge to handle motion detection is 1280x960).
- Due to a camera MJPEG video stream non-compliance, motion detection might not work on some models.
- For AV8XXX cameras, motion detection can only be enabled if single MJPEG is set for every lens.
- VideoEdge requires a minimum of four (4) frames per second to provide reliable motion search results. Due to the limitation of the Arecont Vision camera to produce two streams at the minimum frame-rate required for motion data generation video motion search performance will vary.
- Some Multi-sensor cameras (such as AV8xxx, AV5585, AV12275, AV20365) provide an option to "Equalize Brightness" across all four images. This will cause all the lenses to have the same brightness as the first lens. The VideoEdge camera handler has this value unassigned when cameras are added. If the camera has this value set by the camera's web configuration page the camera's brightness cannot be changed by the VideoEdge.
- Due to camera performance limitation and network status, refreshing the camera list within the victor Client may take 0.1 to 1 second to get each property from the camera. In addition changes to properties on the VideoEdge may take 2 to 30 seconds.
- AV818X and AV2018X are 180° view cameras. Its layout is 4x1 and its sequence is "1,4,2,3". Therefore to display a full view of 4X1, victor Client should be used. In order to display all cameras correctly the images of input 1 and 2 are inverted 180° by default.
- AV836X and AV2036X are 360° cameras. Its layout is 2x2 and its sequence is "1,2,3,4" and has no rotate issue (all are the same).
- Different Arecont panoramic camera models may produce different bit rates for the same scene.
- Due to the camera firmware issue on AV8185DN, the camera stream may restart on the VideoEdge.
- Due to a camera hardware limitation, for AV8185 and AV8365 cameras, the sensor size is 1600 x 1200, so the VideoEdge resolution setting is 1600 x 1200, but it streams at 1600 x 1184
- When configuring “Edge Based” Motion Detection and Metadata, the motion area should be configured on the camera before adding to the VideoEdge
- For multi-channel cameras, when you change the Day/night mode of one channel, the day/night mode changes for all channels. This is a camera limitation.
- Multi-channel cameras cannot support more than one dry contact. The supported dry contact is linked directly to the initial channel that you configure for the dry contact on the VideoEdge.
- For Camera Models (AV2355RS, AV2356RS, AV3355RS, AV3356RS, AV5355RS), the Pan/Tilt function on these cameras will not be supported, due to the camera using a step function to Pan/Tilt. Were as victor uses a continuous motion movement function, which doesn't support step movement.
- For camera models (AV4655DN-08, AV4655DN-28, AV4655DN-NL, AV4656DN-08, AV4656DN-28, AV4656DN-NL, AV6655DN-08, AV6655DN-28, AV6655DN-NL, AV6656DN-08, AV6656DN-28, AV6656DN-NL, AV10655DN-08, AV6656DN-28, AV6656DN-NL). The camera will not add due to a camera issue were the camera will respond to other brands' api calls, if the authentication has been changed from the default. Workaround: Use "admin/admin" to add the camera to VideoEdge. If this doesn't work then use "admin/admin123" , this is due to the handler having 2 default password groups.
- For Multi-sensor cameras, there is a camera limitation and they will not support HTTPS.

- For camera model AV3195DN, The camera needs to have 3 power sources to allow dry contacts to work after a power disconnection. The 3 power sources are as follows. PoE, Camera power supply, External 5v voltage supply to dry contacts.
- For camera model AV2356RS, Edge motion will not work after a power disconnection.[Camera Limitation]. Workaround: Delete and re-add the camera to get edge motion to work again.
- If the camera fails to add please follow the steps outlined below:

1. Log into the VideoEdge as softwareadmin
2. Scroll down to the Pelco handler and disable handler (Warning: This may cause video loss and any Pelco cameras on the network will not work)
3. Log out of softwareadmin and log back in as user
4. Add camera
5. Log back out of user and log into softwareadmin
6. Re - enable Pelco handler
7. Log out of softwareadmin and log back into user

- Arecont models unable to support HTTPS - this may be implemented at a later release under Arecont's discretion.
- Arecont models with the highest MJPEG supported resolution being 1280x960 (1MP) are unable to turn on NVR analytic modes such as Motion Detection or Video Intelligence.
- Arecont models that support NVR analytic modes - reducing the fps on the H.264 Stream will disable the NVR analytic modes such as Motion Detection or Video Intelligence.
- ALL Arecont models - Higher video bit rate may occur under a low light condition, which may cause video loss.
- Arecont Models that support Dry Contacts: These are working but due to the nature of the method used to query the camera's dry contact state - we require the dry contact to be triggered for a second continuously (held together for more than one second then released) - This should not be a problem if they are wired for example: to a door as they gives enough time to query the dry contacts state.
- AV12ZMV-301, AV12ZMD-401- When adding these cameras to VideoEdge and updating the configuration frequent crashes are seen. Work around: These crashes are not seen on an isolated network. To avoid crashes eliminate as much unnecessary traffic on the camera network as possible

Known issues

QC6831: AV8185DN - VideoEdge receiving H.264 frames with timestamp prior to last one received. This is a firmware issue and it is fixed in firmware version 65167 or later. VideoEdge receiving H.264 frames with timestamp prior to last one received for cameras AV3105, AV5105, AV8365, AV10005.

A number of Arecont cameras have been identified as having firmware issues where cameras may unexpectedly stop sending Frames for a short time (3-7 seconds). In some instances this will trigger a lost video alert. Cameras where this issue has been observed are AV3115DN, AV5125IR, AV8185DN, AV5255AM-H, AV40185DN, AV12275DN, AV12186DN, AV12176DN

AV8185, AV10005 series - observed 7 seconds of video loss on camera stream several times this is a firmware issue.

For some properties' the values are retrieved from the camera itself (e.g. resolution). When an Arecont camera is added to the VideoEdge, the return value is not the default value defined in the VideoEdge, but the actual value in camera.

For Arecont's MJPEG version cameras, the D/N camera does not return suffix DN for the model. So VideoEdge will not get D/N option.

On Internet Explorer, if changing the default user name and password, the camera may not be accessed successfully.

Due to camera firmware defect, the camera does not return the full model name, the VideoEdge cannot support the DayNight and auto Iris settings for all the Arecont cameras. The settings can be configured in the settings via the camera's web interface. (Note: Please refer to the Arecont Vision Camera Release Notes published by Arecont Vision for additional information.)

Special points

It is recommended when the camera is added to the VideoEdge, not to change any property parameters on camera's web interface.

Arecont only support two resolutions, one is half, the other is full, and we will convert it to width x height according to the actual picture size.

MJPEG over RTSP is not supported.

Video Codec Properties are all set to DB. The properties on the camera web page are not used, and these settings are for default stream fetching by web.

Internet Explorer may cache the history data, if Internet Explorer is used to get the properties of an Arecont camera by the direct URL (such as http://<ip>/get1?brightness), a page refresh should be used to get new data.

Brightness and sharpness are retrieved from the Arecont camera web interface. There for if the user changes the value on the camera web interface it will change the values displayed on VideoEdge. VideoEdge's value range can't cover all the values of the device. Camera's range is -50, 50 and VideoEdge's range is 1,100. The normalization will be: -50,-41 to 1,10 and -39,50 to 11,100. -40 is not normalized. When the value is read from camera, it is normalized to 11.

The range of image quality for H.264 is (17, 36). And the normalization are:

36	5
35	10
...	
21	100

Arecont default has blank username and password. Users can use any password or username to access the camera. But if the password has been set to user admin or viewer, users should use correct username and password to access the camera. Only by doing "Factory default" can set the password to be blank. (NOTE: a blank password does not mean ZERO length string. If user empties the password input in camera's web page, and saves to the camera, still means there is a password set.)

The VideoCodecKeyFrameInterval is the same for all 4 lenses. The default value is set to 30 by the handler and the camera's default value is 51. (NOTE: the panoramic camera's register address for key frame interval setting is [3:100] not as the individual camera's [3:21]. The setting value is the p frames number between I frames, not containing I frame. (For example, if user wants to set key frame interval 30, the http command should be http://<cameraip>/set?page=3&reg=100&val=29))

Models AV8185DN or AV8365DN retrieved by http://<cameraip>/get?model has a "DN" suffix after the digital model value, i.e. 8185DN or 8365DN, while single lens DN cameras return only digital model value without "DN" suffix, for example, AV3105DN camera returns 3105, not3105DN. User can get the model type with "DN" suffix by http://<cameraip>/get?model=fullname(Confirmed by Arecont supporter). Anyway, what is displayed on VideoEdge should be a full model type, which means DN camera should have "DN" information in camera model type.

For H.264 stream, using default bitrate=8192 Kbits and qp=24.

For saturation range from camera to VideoEdge, its mapping relationship is:

1	0
2	20
3	40
4	60
5	80
6	100

- If the camera fails to add please follow the steps outlined below:

1. Log into the VideoEdge as softwareadmin
2. Scroll down to the Pelco handler and disable handler (Warning: This may lead to Video Loss and any Pelco cameras on the network will not work)
3. Log out of softwareadmin and log back in as user
4. Add camera(s)
5. Log back out of user and log into softwareadmin
6. Re - enable Pelco handler
7. Log out of softwareadmin and log back into user

Table 42: Supported resolutions

Model	Maximum resolution	Resolution options on VideoEdge
AV1115	1280 x 1024	1280 x 1024 & 640 x 512
AV1125	1280 x 1024	1280 x 1024 & 640 x 512
AV1300	1280 x 1024	1280 x 1024 & 640 x 512
AV1305	1280 x 1024	1280 x 1024 & 640 x 512
AV1310	1280 x 1024	1280 x 1024 & 640 x 512
AV1315	1280 x 1024	1280 x 1024 & 640 x 512
AV1325	1280 x 1024	1280 x 1024 & 640 x 512
AV1355	1280 x 1024	1280 x 1024 & 640 x 512
AV2100	1600 x 1200	1600 x 1200 & 800 x 600
AV2105	1600 x 1200	1600 x 1200 & 800 x 600
AV2110	1600 x 1200	1600 x 1200 & 800 x 600
AV2115	1920 x 1080	1920 x 1080 & 960 x 540
AV2125	1920 x 1080	1920 x 1080 & 960 x 540
AV2155	1600 x 1200	1600 x 1200 & 800 x 600
AV2805	1920 x 1080	1920 x 1080 & 960 x 540
AV2815	1920 x 1080	1920 x 1080 & 960 x 540
AV2825	1920 x 1080	1920 x 1080 & 960 x 540
AV3100	2048 x 1536	1024 x 768
AV3105	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3110	2048 x 1536	1024 x 768
AV3115	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)

Table 42: Supported resolutions

Model	Maximum resolution	Resolution options on VideoEdge
AV3125	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3155	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5100	2560 x 1920	1280 x 960
AV5105	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG)
AV5110	2560 x 1920	1280 x 960
AV5115	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG)
AV5125	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG)
AV5155	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG
AV20185DN	2560 x 1920	2560 x 1920 &1280 x 960
AV10005	3648 x 2752	3648 x 2752 & 1824 x 1376
AV8180	1600 x 1184	1600 x 1184 & 800 x 592
AV3256PMTIR-S	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
\AV5255PMIR-SH	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV1555DN	1280 x 960	1280 x 960 & 640 x 480
AV2555DN	1920 x 1080	1920 x 1080 & 960 x 540
AV2556DN	1920 x 1080	1920 x 1080 & 960 x 540
AV3555DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3556DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5555DN	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 x only for MJPEG)
AV1455DN	1280 x 1024	1280 x 1024 & 640 x 512
AV2455DN	1920 x 1080	1920 x 1080 & 960 x 540
AV2456DN	1920 x 1080	1920 x 1080 & 960 x 540
AV3455DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3456DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5455DN	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV1145	1280 x 1024	1280 x 1024 & 640 x 512
AV2145	1920 x 1080	1920 x 1080 & 960 x 540

Table 42: Supported resolutions

Model	Maximum resolution	Resolution options on VideoEdge
AV2146	1920 x 1080	1920 x 1080 & 960 x 540
AV3145	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3146	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5145	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV2246	1920 x 1080	1920 x 1080 & 960 x 540
AV2245	1920 x 1080	1920 x 1080 & 960 x 540
AV3245	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3246	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5245	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV1245	1280 x 960	1280 x 960 & 640 x 480
AV1255PM	1280 x 960	1280 x 960 & 640 x 480
AV1255DN	1280 x 1024	1280 x 1024 & 640 x 512
AV2255	1920 x 1080	1920 x 1080 & 960 x 540
AV2256	1920 x 1080	1920 x 1080 & 960 x 540
AV3255	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3256	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5255	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV10255	2648 x 2752	3648 x 2752 & 1824 x 1376 (1824 x 1376 only for MJPEG)
AV12275DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV12276DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV20275DN	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG
AV12176DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV20175DN	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG
AV5585PM	1280 x 960	1280 x 960 & 640 x 480
AV12585PM	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)

Table 42: Supported resolutions

Model	Maximum resolution	Resolution options on VideoEdge
AV12586PM	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV20585PM	2560 x 1920	2560 x 1920 & 1280 x 960 (1280 x 960 only for MJPEG
AV12186DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV12366DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV40185DN	3648 x 2752	3648 x 2752 & 1824 x 1376 (1824 x 1376 only for MJPEG)
AV1215PM	1280 x 960	1280 x 960 & 640 x 480
AV2215PM	1920 x 1080	1920 x 1080 & 960 x 540
AV2216PM	1920 x 1080	1920 x 1080 & 960 x 540
AV3215PM	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3216PM	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5215PM	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV10215PM	3648 x 2752	3648 x 2752 & 1824 x 1376 (1824 x 1376 only for MJPEG)
AV3236	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV2116DN	1920 x 1080	1980 x 1080 & 990 x 540
AV3116DN	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3135	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV1225	1280 x 960	1280 x 960 & 640 x 480
AV2225	1920 x 1080	1920 x 1080 & 960 x 540
AV2226	1920 x 1080	1920 x 1080 & 960 x 540
AV3225	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV3226	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV5225	2592 x 1944	2592 x 1944 & 1296 x 972 (1296 x 972 only for MJPEG)
AV10225	3648 x 2752	3648 x 2752 & 1824 x 1376 (1824 x 1376 only for MJPEG)
AV08ZMD-400	3840 x 2160	3840 x 2160 & 1920 x 1080 (1920 x 1080 only for MJPEG)

Table 42: Supported resolutions

Model	Maximum resolution	Resolution options on VideoEdge
AV08ZMV-300	3840 x 2160	3840 x 2160 & 1920 x 1080 (1920 x 1080 only for MJPEG)
AV3356PMIR-SA	2048 x 1536	2048 x 1536 & 1024 x 768 (1024 x 768 only for MJPEG)
AV2355RS	1920 x 1080	1920 x 1080 & 960 x 540

AXIS Communications

Supported key functions

- Video Streaming – Single and Dual
- Video Codec – MJPEG, MPEG4 and H.264 depending on camera functionality
- Audio Streaming
- Audio codec supported depends on camera functionality
- Dry Contact events
- Edge Device Motion Detection and Perimeter Defender and Loitering Guard v2.5.2.
- Query Device
- Reboot Device

Required network ports

Port 80 is for HTTP

Port 554 is for RTSP

Default username and password

- Username: root
- Password: pass

Note: These are associated with password group 0 (default)

Supported camera API and models

- Camera API: VAPIX 2 and VAPIX 3. The VideoEdge will interface with any AXIS Cameras that support VAPIX 2 or VAPIX 3. The feature and performance of the cameras might vary due to VAPIX 2 or VAPIX 3 or camera limitations
- Model: Models that support VAPIX2 and VAPIX 3 Camera API. If the camera model is not on the list, then select AXIS-generic.

Camera serial number

- VideoEdge will use the camera's MAC address as the camera serial number.

Video streaming feature

- For VAPIX 3 cameras, all MJPEG, MPEG-4 and H.264 streams can have different frame rates, resolution and quality.
- Cropped resolutions are not supported and do not appear in the resolution selection list.

Audio streaming feature

Handler supports G711mulaw, G726, AAC.

H.264+ Support - Zip Stream support for Axis:

H.264+ allows for enhancements to the H.264 codec to be utilized such as Dynamic Frame Rates, which will reduce the fps of the camera when the scene is quiet before increasing it again for motion, and Dynamic GOP which will increase the GOP setting as the scene gets quieter while lowering it as more motion is visible. The following table lists the cameras and camera firmware versions that currently support H.264+.

5.2 H.264+ firmware compatibility	
Camera model	**Firmware version**
Axis (Zipstream capable)	6.5 or above

Limitations

Model	Limitation
All	For cameras that claim to support absolute and auto focus but fail to provide minFocus and maxFocus (the focus range), the VideoEdge web page (Image Settings -> Lens/Sensor) will display the Auto-Focus option but will not display the focus range when Auto-Focus is disabled. The AXIS 215 is an example of such a camera. Older versions of the AXIS handler may have set the “exposure”, “input gain”, “WDR” and other parameters on some AXIS cameras to invalid values. The camera’s web interface can be used to determine whether the camera parameters have been set to invalid values. Click “Setup->System Options->Advanced->Plain Config” and then select the appropriate parameter group (image source, PTZ, etc). The invalid values will be displayed but will be appended with “(not supported?)”. The AXIS handler will also see the “(not supported?)” in the parameter value strings it reads from the camera. If any invalid values are found then use the camera’s web interface to change invalid settings to valid settings. After an AXIS camera has been disconnected from the network, it can take up to 22 seconds to raise an alarm and attempt a reconnect after the dry contact connection to the device is lost. However, the loss of the video stream from that camera will be detected within a few seconds and an alarm will be raised. If the camera’s own web GUI is used to rotate an image (instead of using the VideoEdge web client “Image Settings” screen) then the change does not take effect on existing streams until an fps or resolution change causes the stream to be destroyed and recreated. It is recommended to use the VideoEdge web client “Image Settings” screen to rotate the image because that will cause the stream to be destroyed and recreated. If the customer needs to change the active state of a dry contact input then it should be changed before adding a corresponding alarm sensor otherwise an alarm/alert may be caused as a result of changing the active state. H.264 VBR bitrate settings are not available on the VideoEdge. If the VBR bitrate settings have been changed via the camera web interface, the settings will not impact the VideoEdge configured streams. The AXIS API does not provide the same functionally across different cameras. When lens

Model	Limitation
All Encoders	Due to limitation in the Axis Encoder PTZ support, AD Ultra 8 analog PTZ presets are not supported on Axis Encoders. (Axis Ticket 317075). When working with Axis encoders the number of Presets supported are: 32 for Pelco analog cameras. It is known from Axis that this is a Pelco driver limitation (Axis ticket 317074). 20 presets on M7001 encoder (Axis Encoder limitation) 50 for Bosch analog cameras Preset capabilities for the UltraDome 8 analog cameras do not function properly with the Axis encoders. This issue is not limited to the victor Client; it occurs when trying to add/select/delete presets through the Axis web page itself. This is an Axis encoder issue. As AD Ultra 8 analog cameras do not support presets, they can be added on VideoEdge local client and victor client, but do not function when executed. The original VideoEdge requires Axis cameras to have absolute PTZ capabilities in order to support PTZ presets. Since Axis tech support guarantees that their encoders will support preset functionality even if the absolute PTZ is absent, the VideoEdge will always enable the preset support for all Axis encoders as long as the PTZ is enabled both in the VideoEdge and the Axis encoder. An attempt to add a preset to AXIS encoders (with AD Ultra 8 analog PTZ camera) will result in a “Error: query not implemented” HTTP error being returned in response to a “http://<ipaddress>/AXIS-cgi/com/ptz.cgi?query=position&camera=1” HTTP request. The reason for this is that the Sensormatic driver for the AD Ultra 8 camera does not allow the position to be queried. The parameter list retrieved from the encoder will report that absolute pan, tilt, zoom is not supported. The number of presets allowed is capped at 50 for the victor Client. When working with encoders, only the first 32 presets function properly. Axis documentation claims each channel can support 100; however this does not appear to be the case. If using the encoder over HTTPS PTZ commands will have a slight delay. This is an encoder limitation.

Model	Limitation
Q6055-E	Zoom speed for the camera is slow.
Q1786-LE, Q1785-LE, P1445-LE	There are no VPTZ option on these cameras. This is due to the zoom capability on these camera.
M7001	For Pelco analog cameras added to M7001 will produce shaky video and video loss
207W	The victor client activity window shows an unexpected extra offline entry and online entry for the AXIS 207W camera after it has been disconnected and then reconnected. This second offline/online entry is due to an apparent flaw in the AXIS 207W camera.
Q1755	Q1755 without PT head installed will still show up as a PTZ camera in VideoEdge. However, none of the PTZ functions will work. This limitation could apply to all cameras that have built-in PT/PTZ head support. An attempt to add a PTZ preset for AXIS Q1755 fails because the getPositionSync method returns “Not supported” error as a result of the AXIS Q1755 not returning pan and tilt position info when PTZ position is queried. The zoom position is returned but not the pan and tilt position. Since the Q1755 cannot pan and tilt without the motor accessory then perhaps the need to set presets for zoom only is not critical.
240Q, 241Q	When an AXIS 240Q or 241Q four-port encoder is added to the VideoEdge, camera slots will be created for all four ports regardless of whether the encoder inputs are receiving analog signals. If an analog signal is not preset, black video will be received by the VideoEdge and recorded / streamed to viewing clients. To conserve VideoEdge disk space and reduce network traffic, the camera slots associated with the unused inputs can be deleted from the VideoEdge but they cannot be added again unless the entire encoder is deleted and re-added.

Model	Limitation
210A, 233D	The latest firmware (4.47) in the AXIS 210A camera and some other VAPIX 2 camera and encoder models have a flaw that limits the fps of MJPEG streams to the fps of an existing MPEG-4 stream until the MPEG-4 stream is destroyed. For example, if the configured fps of two MJPEG streams is 20 fps and 5 fps and the fps of the MPEG-4 stream is 15 fps then the actual fps of the MJPEG streams will be 15 fps and 5 fps until the MPEG-4 streams destroyed. Similarly, if the MPEG-4 stream is 1 fps then the actual fps of the two MJPEG streams will be 1 fps. A workaround is to ensure that the fps of an existing MPEG-4 stream is greater that the configured fps of the MJPEG streams. Another workaround is to update the AXIS firmware to an latest version (4.48 for example) which does not exhibit this symptom.
214 PTZ	When using /AXIS-cgi/com/ptz.cgi?camera=1&areazoom=<int>,<int>,<int less than 100> AXIS API to zoom out on AXIS 214 PTZ camera, the zoom position will reverse to maximum zoom in when the request causes a zoom out to go beyond the widest zoom out position. This, according to AXIS technical support, is a bug within the AXIS 214 PTZ camera (v4.40). The above mentioned API is used by VE API to perform PTZ Nudge operation.
All VAPIX2 cameras	An AXIS VAPIX 2 camera will momentarily disrupt an MPEG-4 video stream as a result of changing the audio codec which causes the VideoEdge to stop/recreate the video stream. During recorded playback by victor Client, a blank image appears for a very short period at the point in time where the audio codec was changed.
233D	The zoom speed on AXIS 233D is fixed.
Q7406, Q7436	AXIS Q7406 does not support PTZ positioning query. Hence VideoEdge will not be able to obtain auto- focus and auto-Iris status.

Model	Limitation
All PTZ cameras	Due to AXIS cameras limitations the VideoEdge is not able to use the same HTTP connection for multiple PTZ functions, which might result in higher PTZ latency. Due to camera behavior the Iris settings of the camera changes very slowly, the VideoEdge web page needs to be refreshed in order to be updated with this change. PTZ in H.264 may show pixelation. This is also shown on the camera web page when using H.264. Workaround - Use MJPEG When adding a PTZ camera to VideoEdge, make sure there are no patterns set up on the camera prior to adding.
Q7406, 241Q, 243Q	AD Ultra 8 analog PTZ are not supported on Q7406, 241Q and 243Q
212	AXIS 212 can't pan or tilt if the camera is in full zoom out mode. AXIS 212 can't zoom out stop near full zoom distance and cannot set to full out.
214	Axis 214 when zooming out to full position, when zooming in t he same amount of distance will be executed.
221, 223	The Axis 221 and 223 are falsely recognized as PTZ cameras. As a consequence victor Client will show the PTZ icon and the VideoEdge web admin will show the PTZ link when using both cameras.
223M	Stream settings should be configured before enabling Motion Detection. Resolution above 640 x 480 will not stream in VideoEdge.
All Megapixel cameras	The VideoEdge admin client provides no control for changing the "capture mode" of an Axis P1346 camera and other megapixel cameras. Therefore it may be necessary to use the camera's own webpage to set the desired capture mode to enable the use of associated video resolutions. After changing the capture mode, it will be necessary to refresh the VideoEdge admin client camera details page to select from the currently available resolutions.

Model	Limitation
P5522	If an Axis P5522 PTZ camera is not receiving sufficient power for its PTZ operations then it will disable the PTZ motor and remove the PTZ. As a consequence, no PTZ controls will be available in the VideoEdge and the clients for that camera. The symptom may also occur when other PTZ camera models receive insufficient power.
Q1910,Q1921	The default palette setting of an Axis Q1910 or Q1921 thermal camera can only be changed by using the camera's web page "Setup -> Video & Audio -> Video Stream -> Image Appearance. Palette". Changing the default palette has no effect on established streams. The VideoEdge uses whatever the default palette is when the stream is established. After the customer changes the default palette then it is necessary to destroy and recreate the stream received by the VideoEdge. The stream can be destroyed and recreated by simply using the VideoEdge admin client to change the video frame rate.
M5013, M5014	The Axis M5013 and M5014 have a single speed PTZ movement therefore the camera PTZ movement is affected only by the interval between the start and stop commands from victor Client, not the speed values in the start command. The consequence is that PTZ movements may be larger than desired.

Model	Limitation
P8221	When added to the VideoEdge the device cannot be seen on the video list as it does not support video stream. The user must go to the audio list to see the device listed When added to VideoEdge, the firmware for this device displays as “UNSUPPORTED” until the audio device is enabled. Use the following steps to do this: Add camera to VideoEdge Select “Audio List” tab Select edit icon Select “Enable” from drop down menu Save When the P8221 is added to the VideoEdge but is offline, the settings can still be accessed but will appear as “unsupported”] >As VideoEdge dry contact is only associated with video, P8221 Audio I/O module dry contact cannot be used as this device does not support video stream. As VideoEdge PTZ is associated with video, P8221 PTZ feature cannot be used as this device does not support video stream. This audio only device cannot be live viewed in VE Hybrid/ local client as audio devices cannot be selected for surveillance. It is recommended to associate the device (via associate audio setting in VideoEdge) with a camera which streams video.
M1054	Although there are two dry contact inputs on VideoEdge admin client, the second dry contact input is used for the PIR sensor and therefore cannot be used as a dry contact input alarm source.

Model	Limitation
M3007, M3037	Adding M3007 or M3037 to the VideoEdge will add up to 6/8 streams. As this camera has a maximum fps of 12, adding too many streams would cause fps to decrease further. When all channels are added to the VideoEdge, the fps decreases - deleting some of the streams will increase fps on the remaining configured streams. Changing image settings on one channel on the M3007 will be applied to all channels. The camera mode should be set before adding M3007 to VideoEdge. When changing the camera mode the camera should be deleted from the VideoEdge and re-added after the camera has been configured. If the M3007 camera mode is set to “wall mount” 6 channels will be added to the VideoEdge. However, if the M3007 is set to “ceiling mount” 8 channels will be added to the VideoEdge. The rotate image should be set on camera before adding into VideoEdge. > If there is frame loss overnight, it may cause a quick flicker to occur during video. Downloading the video clip will not show any video loss. If frame loss is experienced overnight, it may cause a few second video freeze. On the VideoEdge, Edge Based Motion Detection/Edge Based Meta Data can only be configured on channel 1 - the Overview/Fisheye channel. This is because the camera itself configures motion detection on the Overview/ Fisheye stream; which adds to the VideoEdge as stream 1. Axis Fisheye M3007 camera limitation: When added to the VideoEdge (from camera factory default settings), the camera is added to VideoEdge either as a 6 or 8 channel encoder, the fisheye stream is limited to 3fps, and due to the low fps this will cause victor dewarp feature to create an un-smooth PTZ movement. Work around: Limit the fisheye channels on the VideoEdge to increase fps performance for the camera. For example they can use the following combinations: Fisheye stream only - 12 fps (1 channel only) Fisheye + 4 Active streams 7 fps (5 channels only) Fisheye + 2 Active 10 fps (3 channels only) Fisheye & Panorama 10 fps (2 channels only) By default cameras will add 1 fisheye, 3 Panorama and 4 Active streams (8 channels). Axis Fisheye camera limitation: Due to a camera limitation, the Axis Fisheye camera may take

Model	Limitation
Q6035	If running a sequence overnight, it is recommended to use a fps>5 setting. If saved at a lower fps, any frame rate drops may cause the video to freeze during sequence run. The auto focus on this camera is not working when the camera is zoomed in or zoomed out.
Q7436	Using Pelco analog camera: only supports continuous operations, it does not support relative operations, and it will respond slowly, usually a delay 3s after doing PTZ operations.
Q1615	The audio bitrate option is inconsistent with the camera web page when audio codec is set to AAC or G726. Image rotation on the camera should be set and the camera rebooted before adding to the VideoEdge.
Q1615, P1428-E	When setting CBR values on VideoEdge web page it does not take effect, for example, if CBR is set to 2000 on VideoEdge web page, the bitrate of stream is still 3300.
F44	There is one dry contact channel that fails to work on the F44 camera model if a user enables all available dry contact channels. The 'enable/ disable' message does not reflect the amount of dry contacts available. For the F44 encoder, it is recommended that the user only enables the first three dry contact channels due to a camera limitation. Only 1 channel works for edge based motion. Only enable 1 channel. i.e. channel 3. Do not enable 1,2 or 4 to get alarms for channel 3.
P5515	Image rotation on the camera should be set and the camera rebooted before adding to the VideoEdge.
Q1659	When in low light conditions the Q1659 may experience instances of video loss. Please install handler 4.9.1.2006 to reduce the amount of video loss.

Model	Limitation
M3077-PLVE	High image resolution affects streaming. Simultaneous viewing of different streams affects frame rate. Workaround: Lower the resolution and do not add additional streams (MJPEG) to all the channels.
M3077-PLVE	M3077-PLVE uses SIP . This is not supported for Axis cameras on VideoEdge.

Known issues

Model	Issue
PTZ Cameras	If there is a pattern enabled on the camera prior to adding the camera to the NVR, you may be unable to set or delete a pattern on victor. Workaround: Delete all patterns before adding the camera to the NVR. If you run a pattern on victor, it will be unable to be stopped. Workaround: To stop the pattern delete the running pattern from victor.
P1357	The maximum fps changes according to how the camera is configured. See camera user manual. 5MP Capture Mode:
M3007	The “Mount Type” is not shown on VideoEdge. Due to a camera firmware issue, after restarting the camera, channel 8 restores to default settings.
P1357, M3007	Stream settings should be configured on VideoEdge before enabling Edge Based Motion Detection. Once added to the VideoEdge and enabled, changing the settings may cause video stream lost. If this issue occurs, The camera must be removed from the VideoEdge, factory defaulted and re-added to the VideoEdge.
All cameras	Should a camera become disconnected from the network for an extended period of time (More than 12 hours) the VideoEdge may not receive edge based motion events/ dry contact events. If this occurs it may be necessary to disable and re-enable dry contacts and edge based motion detection again via the VideoEdge admin client. If the camera firmware is 6.10 or above then the camera should be deleted from the VideoEdge and re-added again.

Model	Issue
All Cameras V5.75 and above	An Axis has changed its default HTTP setting to HTTP Digest (Medium) a security group needs to be created with the HTTP digest setting to add the camera to the VideoEdge. If the camera is already on the VideoEdge it must be moved to a security group with these setting, if the correct security group is not used it could cause streaming and recording issues.
All Axis cameras with VMD3 and VMD4	Axis cameras with firmware version 6.50.xx or above support VMD3 and VMD4. - If current app running is VMD4, this only supports motion alarms in VideoEdge integration without motion metadata. - If current running app is VMD3, this supports motion alarm and motion metadata in VideoEdge integration.

Special points

Note: For some old cameras with camera firmware prior to v5.80, its default authentication type is 'BASIC', so the User will need to add them using a new "BASIC" security group on the VideoEdge.

Note: Motion detection of camera must be enabled before your Edge-based testing. VMD3 replaces VMD2.1 starting from FW6.10, and the menu of motion enable is different to each motion detection.

- Firmware Prior to v6.10 is VMD2.1: Detector->Motion Detection->Add Window
- Firmware from v6.10 is VMD3: Application->Motion Detection 3->Settings->AXIS Video Motion Detection settings

Note: For some cameras, the alarm can be configured as alarm input (DryContact) also as alarm output (RelayOut). The mapping from camera to VideoEdge are:

- AlarmOut Index = RelayOut Index + DryConact Number + 1;
- The sequence of alarm in and alarm out must not be interlaced, and alarm in is must prior to alarm out. For example:

Valid combination:

- Alarm 1 -> Alarm in
- Alarm 2 -> Alarm in
- Alarm 3 ->Alarm out
- Alarm 4 ->Alarm out

Invalid combination:

- Alarm 1 -> Alarm in
- Alarm 2 -> Alarm out
- Alarm 3 -> Alarm in
- Alarm 4 -> Alarm out

OR

- Alarm 1 -> Alarm out
- Alarm 2 -> Alarm in
- Alarm 3 -> Alarm in
- Alarm 4 -> Alarm out

Note: For F44 encoder, it is recommended that the user only enables the first two dry contact channels due to a camera limitation. An Axis case number has been opened : 615018

Note: For multi-sensor cameras and encoders, it is not recommended to enable all motion detection for all channels due to a camera performance limitation.

Refer to *AXIS cameras release notes* published on the AXIS website for more information about AXIS cameras and limitation.

Bosch

Supported key functions

- Video Stream
- Query Device
- Audio Stream
- Events
- PTZ

Video stream

- Supports MJPEG and H.264 streams
- VideoEdge supports dual H.264, or one H.264 and one MJPEG

Audio stream

- Supports audio codec G.711
- Audio stream is mixed with video stream

Dry contact event

Supports polling mode at a 250 ms interval

Edge motion detection event feature

- Supports polling mode at a 100ms interval

PTZ methods

Supports pan, tilt, zoom and preset

Get/Set properties

- Get/Set property: Please refer to the encoder profile, below properties need the config file (for DB support)
- VideoCodecFrameRate (MJPEG & H.264)
- VideoCodecQuality (MJPEG)
- VideoCodecBitRate (MJPEG & H.264)
- VideoCodecResolution (MJPEG & H.264)

Unsupported key functions

- Reboot
- Power Off
- Get Log
- Factory Defaults
- Find Device

Default ports

Port 80 for HTTP

Port 554 for RTSP

Default username and password

Username: service

Password: <no password required>

Supported resolutions

Model	Max resolution (default value)	Resolution list in VideoEdge 4.2+
AutoDome JR800 HD	1280x720	1280x720, 4CIF, CIF
Dinion NBN-498-P IVA	4CIF	4CIF, CIF
Dinion HD 1080p D/N IVA	1920x1080	1920x1080, 1280x720, 4CIF, 704 x 432, 512 x 288, CIF, 256 x 144
Dinion NBN-921-P IVA	1280x720	1280x720, 4CIF, CIF
NBC-265-P	1280x720	1280x720, 4CIF, CIF
AutoDome 800 HD	1280x720	1280x720, 4CIF, CIF
VG4 AutoDome	4CIF	4CIF, CIF

Limitations

Dinion Ultra 8000 IP 4K:) If streaming MJPEG on the 4K resolution (3584 x 2016 / 3840 x 2160) the fps achieved will be 5 fps lower than expected/configured. This is a camera limitation on the performance of the camera. If you require a higher fps on the MJPEG stream we recommend you lower the resolution on the H.264 stream.

Bosch Dinion HD 1080p: The camera will add to the VideoEdge using the default security group, even if the user has changed the password from default. If the incorrect security group is chosen the camera will not stream.

Dinion Ultra 8000 IP 4K: When configuring the 4K resolution (3584 x 2016 / 3840 x 2160) there may be up to 2 seconds of video latency. This is a camera limitation. To reduce the video latency, we recommend using the following settings on the H.264 stream:

1920x1080 at 30 fps – No latency displayed but lower resolution

3584 x 2016 / 3840 x 2160 at 15 fps and 16000 bitrate – Reduces latency but allows for higher resolution

Flexidome Panoramic 5000 IP Fisheye: VideoEdge Motion Detection and Video Intelligence is not supported as the lowest supported resolution as the setting exceeds VideoEdge limitations. To enable Motion Detection, alarm Edge Motion can be set up from the camera.

Flexidome Panoramic 5000 IP Fisheye: If you require alarm and record streams to be MJPEG, please configure 1792 x 1792 or 1536 x 1536 resolutions on the H.264 live stream. If 1024 x 1024 is used for H.264 live, you will not be able to view H.264 in victor Client.

Flexidome Panoramic 7000 IP Fisheye: When using all 3 channels are configured with a high resolution of 2640 x 2640, this may result in video latency/video delay along with a drop in fps. This is a camera limitation on its performance. To reduce the video latency/video delay and fps drop, we recommend you to lower the resolution configured.

Flexidome Panoramic 7000 IP Fisheye : Due to camera limitations please note the following:

MJPEG is not available on channel 1.

To configure motion detection and video intelligence please use channel 3 on resolution 768 x 432 or 512 x 218.

If you configure more than one channel with MJPEG and configuring corridor or Full panoramic on the second channel, this may result in video loss.

We recommend the following configuration to reduce video loss on this camera (if configuring corridor or Full panoramic on the second channel :

Recommended settings						
	Channel 1		Channel 2		Channel 3	
Stream	1	2	1	2	1	2
Codec	H.264	Off	H.264	Off	H.264	MJPEG
Resolution	2640 x 2640	Off	1920 x 1920	Off	1280x720	512 x 288
FPS	12	Off	12	Off	12	7

If you are not configuring the camera using corridor or full panoramic on the second channel, the table shows the recommended settings for Channel 2 for de-warp modes can be seen below.

- E-PTZ
- Quad
- Panoramic

Recommended Settings						
	Channel 1		Channel 2		Channel 3	
Stream	1	2	1	2	1	2
Codec	H.264	Off	H.264	MJPEG	H.264	MJPEG
Resolution	2640 x 2640	Off	1920 x 1920	1536 x 864	1280x720	512 x 288
FPS	12	Off	12	12	12	7

Not all Bosch fisheye camera support edge dewarp and client dewarp. FLEXIDOME IP Panoramic 7000 12MP 360 IVA (NIN-70122-F0A) support both edge dewarp and client dewarp. But FLEXIDOME IP Panoramic 5000 MP (NUC-52051-F0) only support client dewarp.

If Fisheye camera support edge dewarp, then need to first set the edge dewarp on camera web interface then reboot camera. After that, the fisheye camera will have 3 video source and will added as a 3 channels encoder to NVR. If changed the edge dewarp on camera web interface, then need to remove the camera from NVR and then added to NVR.

When enabling the VLA on camera web page, the PTZ will be locked. After disabling the VLA on camera web page, PTZ will work normally.

For the Bosch 1-Channel Encoder - VIP-X1-XF-IVA, when using victor client for instant playback, the rewind button when clicked will show a frozen screen (due to large GOP sizes). Therefore to see

video on instant playback, for rewind, you can use the jump back button and then play forward. Recorded video is not impacted. (TFS513333).

For the Bosch encoder VIP-X1600 Series and VIDEOJET multi 4000, all 16 channels will use the same 3 video profiles, the video settings are set as H.264 stream 1, H.264 stream 2, and MJPEG stream 1. Therefore any change in the stream configurations of any channel will change it for all other 15 channels. All channel configurations are tied together.

Only 4CIf resolution is supported on the MJPEG stream. This is the only resolution supported by the encoder.

The resolution drop down on VideoEdge displays 2/3 D1 but is in fact a smaller resolution than 4CIF. This is an encoder limitation.

When using any resolution above CIF this may result in video loss. To prevent video loss please set your fps to only 12 or 15. If 25 or 30 fps is used this will also result in video loss using a resolution above CIF this is a Bosch limitation.

When changing the video configuration on VideoEdge of channel one it changes all channels on the Encoder. However not all video streams that are displayed in victor are changed. Please remove the Encoder and re-add or make the configuration changes on the Encoder webpage. This is the encoder limitation.

Due to a camera limitation, the handler can only support one MJPEG stream. If a second MJPEG stream is enabled, the VideoEdge will produce an error message.

Bosch camera supports two H.264 streams. Handler default stream is H.264 stream1. Due to camera limitations, H.264 stream 2 resolutions depends on H.264 stream1 resolution.

H.264 stream 1 and stream 2 refer to H.264 streams from the camera corresponding with the camera encoder profile1 and profile 2, not streams 1 and 2 on the VideoEdge.

Resolution List on H.264 Stream 1	Current Value of H.264 Stream 1	Resolution List on H.264 Stream 2	Resolution List on MJPEG Stream
1920x1080 1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144	1920x1080	1920x1080 1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144	1920x1080 1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144
1920x1080 1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144	1280x720	1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144	1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144
1920x1080 1280x720 4CIF 704 x 432 512 x 288 CIF 256 x 144	4CIF or below	4CIF 704 x 432 512 x 288 CIF 256 x 144	4CIF 704 x 432 512 x 288 CIF 256 x 144

From the table above, the resolution on both H.264 stream 2 and MJPEG stream must be equal or less than H.264 stream 1. This means, when changing H.264 stream 1 resolution to a smaller one, ensure it is equal to or less than the resolution on both H.264 stream 2 and MJPEG stream.

Due to a camera limitation, if the user starts MJPEG stream or H.264 stream2 with HD resolution, please make sure H.264 stream 1 resolution is equal to or higher than the resolution on MJPEG stream or H.264 stream 2.

Bosch has implemented the CGI to get the Camera Type instead of the Model name labeled on the camera. So the Camera Type is shown in the model list on the VideoEdge.

Bosch cameras do not support changing the Video Standard, only viewing the Standard. Bosch cameras have 3 Video Standards: NTSC, PAL and HD. If the camera video standard is HD, “UNKNOWN” will be displayed on the VideoEdge Camera Image Settings page.

When setting up Dry Contacts on NBN-921-P IVA serials and NBN-498 serials, it is necessary to activate the Alarm Inputs on the camera interface first. Users must change the Active dropdown list value from 'None' to 'N.O.' or 'N.C.' on the camera, as 'None' means disabled and this does not automatically change when Dry Contacts are activated on the VideoEdge.

Due to a camera limitation, for Bosch Dinion HD 1080p D/N IVA, if the users sets stream 1 codec H.264 and 30 fps, stream 2 codec H.264 then the streams can only reach 10 fps, due to stream 2 being dependent on stream 1.

Handler supports Generic functions including dual stream and audio stream with the following limitations:

Cameras need to provide three streams, including two H.264 streams and one MJPEG stream. So the handler can support dual H.264 streams or one H.264 stream and one MJPEG stream.

Resolution list includes HD resolution (1080p and 720p) and SD resolution (CIF and 4CIF), but cameras may only support one or several of them.

Audio codec G711 can be supported by the audio stream, other codecs are not supported.

It is found that different camera firmware versions can return different camera types. This causes the handler to recognize the camera as Generic camera. Please ensure the Bosch camera has the recommended firmware version before adding it to the VideoEdge.

Due to camera limitations on the AutoDome Jr 800 HD, it supports single H.264 stream when the resolution is set to 1080p or 720p 50 (PAL)/60 (NTSC) fps on H.264 stream 1, and H.264 stream 2 is only a copy of H.264 stream 1 when 1080p is selected for stream 1. It supports dual H.264 streams when resolution and fps are set to 720p and 25 (PAL)/30 (NTSC) fps or below, and H.264 stream 2 can be set to 4CIF and CIF resolution.

Due to camera limitation, when setting 1080p for MJPEG stream on the AutoDome Jr 800HD, it is shows 1920 x 1072.

If observing some delay in live and recorded video on victor Client – we recommend configuring the settings on camera interface as:

Go to Settings/advanced/camera/encoder profile/Profile 1/Expert settings:

GOP structure = IP

I frame distance = set slider to the same fps value configured on the VideoEdge.

Due to a camera issue for some Bosch cameras, for example Auto Dome Easy II IP, the camera has an interlacing issue when using 4CIF resolution. In order to resolve the issue, the camera must be set to CIF resolution (on both the camera web interface (Settings/advanced/camera/encoder profile/Profile 1/Video resolution) and VideoEdge video stream configuration.

Bosch Dinion HD 1080p D/N IVA - After a camera has been factory defaulted, the user should change the property of camera stream 2 from ‘Copy Stream 1’ to ‘H.264 MP SD’ (This can be done

on the camera web page Settings > Advanced Mode >Camera > Encoder Streams > Video1> H.264 settings>) the camera can then be added to the VideoEdge.

For Bosch camera H.264 stream 2, there may have the operate mode “Copy Stream 1”, it mean that the H.264 stream 2 will have the same video setting with the H.264 stream 1. Considering that the operate mode “Copy Stream 1” for H.264 stream 2 just duplicate the H.264 stream 1, and it will bring the video setting very complex. So the handler will filter out this operate mode.

Known Issues

- It is recommended to update camera firmware version more than 6.40.xx if possible.
- When adding Bosch camera to NVR in https mode, Bosch CGI latency is so big that it will fail to be added. There are two work arounds:
- 1. Adding the camera to NVR in http mode, then change the security group to https mode.
- 2. Remove the other handler in NVR, then add the camera in https mode.
- Audio should be correctly set on camera web interface before adding to NVR.
- Bosch Starlight 7000: The camera will not add when using auto-discovery. Workaround: Add the camera manually to VideoEdge from the device list.
- For the model FLEXIDOME IP Panoramic 5000 MP (NUC-52051-F0), when set resolution CIF/4CIF on the second H.264 stream, it can only get the actual resolution 240 x 240 / 480 x 480.
- By NVR limitation, the DayNight Mode has to be displayed on NVR Image Setting page, otherwise the Panoramic Mount type cannot display correctly. But for the fisheye camera FLEXIDOME IP Panoramic 5000 MP (NUC-52051-F0), it doesn’t support the feature day night mode by camera itself, therefore on VideoEdge web page the feature is fake, it doesn’t work when setting DayNight mode. This is a limitation on NVR5.2 or below. It will be fixed on NVR5.3.
- For some Bosch cameras, there is a new option “Best Possible” in resolution list of MJPEG stream, the actual resolution is decided by camera itself, it changes accordingly as the first H.264 stream changes. If the resolution (L* W), either L or W is more than 2048, the view on victor client cannot display, even cause camera video loss.
- After Bosch cameras do factory default, if the MJPEG resolution is “Best possible”, when adding the camera to NVR, it will be changed to the property resolution by auto-configuration, if there is only one resolution “Best possible” supported, then keep as it is.
- After the power has been disconnected to the Bosch camera and re-connected the audio may not return please disable and re-enable the audio via VideoEdge admin webpage.
- Analytic heat map is not supported on the Bosch encoders.
- The fps is only 2.75 when MJPEG streaming (25 fps) is in use. It is a known camera limitation. Confirmed with Bosch support that for most of the Bosch cameras fps can only reach up to 5 fps.
- Audio and video is not synchronized with MJPEG stream on victor client. This is due to the MJPEG stream limitation on the fps only reaching a low rate.
- When setting Brightness and Contrast on the NBC-265-P, it returns an error message. This is because it uses different CGI from other cameras, so these properties and functions are not supported.
- Frequent Video Loss for Bosch Dinion HD 1080p D/N IVA is caused by the default VideoEdge storage setting. The recommended mount option when setting up the VideoEdge is: nofail,noatime,nodiratime,attr2,nobarrier,noquota,allocsize=4M
- GOP structure should be set to “IP” prior to adding cameras to VideoEdge. Failure to configure this setting may cause video loss or issues with victor playback.

- If the network connection between the VideoEdge and the camera drops and then established again, this may result in the camera/device not restarting correctly. The camera should be restarted
- . Due to an VideoEdge web client known Issue, when Stream 2 is enabled with the same codec as Stream 1, the setting is a copy of the Stream 1 settings. But Bosch dual H.264 stream support has a different resolution list. So when the client applies, it shows and applies a different resolution value on Stream 2.
- Due to the VideoEdge web client known issue, when setting the resolution for the second H.264 stream, set it on the advance edit page. This is due to the fact it is a copy setting of H.264 stream 1 on camera list page with editing status, and real available resolution may not be included in the copy of the resolution list.
- Due to camera known issue, for Dinion HD 1080p D/N IVA camera, set resolution 4CIF (704 x 480) on H.264 Stream 1 and 768 x 432 on H.264 Stream 2, then the user only can get an actual resolution 704 x 432 for H.264 Stream 1. And set resolution 768 x 432 on H.264 Stream 1 and 4CIF (704 x 480) on H.264 Stream 2, user can only get actual resolution of 704 x 432 for H.264 Stream 1.
- There is a green line at top of victor Unified Client live stream on Bosch AutoDome Jr 800HD. This is a camera issue.
- Playback video stuttering when rewinding/forwarding the H.264 video from AutoDome 800 Jr. The camera setting is: NTSC, H.264, 1920x1080, fps=30. Camera's firmware version is 39500570.
- When running on a VideoEdge with a Haswell hardware chipset, The Bosch AutoDome Jr Camera Model will not stream video in a 2x2 surveillance window if it is transcoded to the resolution of 416 X 240. All other transcodes and resolutions will stream as expected.
- Dual H.264 streams are not fully supported on the Bosch MIC IP dynamic 7000 HD camera. It’s a camera limitation. The fps of the second H.264 stream cannot reach the set value when the first stream is ‘H.264 MP 1080p 25/30 Fixed’. Please refer to the camera data sheet ‘http://resource.boschsecurity.us/documents/MIC_IP_dynamic_7000__Data_sheet_enUS_16950850955.pdf’ for the detailed stream options.
- Bosch MIC IP dynamic 7000 HD camera needs an accessory ‘MIC7000 Alarm/Washer Interface Unit’ to support its dry contact inputs. Totally 6 dry contact inputs will be shown on VideoEdge alerts page, but only first 4 of them are real dry contact inputs and the left 2 are temper alarm inputs.
- The PTZ presets function and other functions of Bosch MIC IP dynamic 7000 HD camera may not work correctly until an enough power supply is provided .
- Bosch Dinion HD 1080p D/N IVA - Live video and instant playback may show a slight stutter or skip for 1 second. Recorded video does not display the issue.

Special points

- When using an analog PTZ camera via the encoder please ensure the PTZ address on the camera corresponds with the channel used on the encoder. For example if the camera is attached to channel 3 then the PTZ address on the camera must be 3.
- Bosch camera has 8 profile configurations on the web page, and each profile may configure a set of codec parameters. Handler specifies H.264 Stream 1 on camera to profile Configure 1 and H.264 Stream 2 on camera to profile Configure 2 and the MJPEG stream on camera to profile Configure 3, so when the VideoEdge sets stream codec parameters, the parameter is written in the special profile configured.
- Changes to codec parameters should only be made on the VideoEdge Administration interface and not the camera web page as they may not be implemented.

- The ranges of Brightness and Contrast are 0-255 in Bosch cameras. The Handler converts this value to 0-100 using the following formulae:
- Camera to VideoEdge: Camera (brightness/contrast)*100/255
- VideoEdge to camera: VideoEdge (brightness/contrast)*255/100
- When adding the camera to the VideoEdge, the GOP structure must be set to "IP" in profile configure of the camera web page, so the fps value is usable.
- When enabling audio stream on VideoEdge for all Bosch cameras, ensure audio is enabled on camera's web interface.
- Some cameras may not contain “-“ or “:” or spaces between the MAC address on the VideoEdge properties page. This is only a cosmetic issue.
- The presets/scenes must be set for the Edge Motion Detection to trigger. This applies to Bosch AutoDome 800 HD and the Bosch MIC IP Dynamic 7000 HD cameras. For more information, see the ‘Motion Operation Manual’ at (http://resource.boschsecurity.com/documents/MOTION__Operation_Manual_enUS_19406483595.pdf). It states the following: “You must move the camera to the required position first in each case. When using AUTODOME cameras, the individual presets must be specified before configuring MOTION+ for each preset. All of the settings you make relate to the selected camera position. This means that you must reconfigure MOTION+ for this camera whenever you change the camera's direction or position.”
- It doesn't support dual MJPEG streams on Bosch Cameras.
- Bosch Handler does not support Relay Output feature.

CBC

Supported key functions

- Video Streaming – Single and Dual
- MJPEG and H.264 video codecs
- Query Device

Unsupported key functions

- PTZ Operation
- Audio Streaming
- Dry Contact Events
- Power off devices
- Get device log
- Find Devices
- Reboot
- Reset to factory default

Camera serial number

VideoEdge will use the cameras MAC address as the camera serial number.

Required network ports

Port 80 is for HTTP

Port 554 is for RTSP

Default username and password

Username: admin

Password: <no password required>

Supported resolution

Model	Max resolution	Resolution options on VideoEdge
MP1A	1280 x 1024	1280 x 1024 / 640 x 512
MP1DN	1280 x 1024	1280 x 1024 / 640 x 512
MP2A	1600 x 1200	1600 x 1200 / 800 x 600
MP2DN	1600 x 1200	1600 x 1200 / 800 x 600
MP3DN	2048 x 1536	2048 x 1536 / 1024 x 768 (For MJPEG – only 1024 x 768)
MP5A	2560 x 1920	2560 x 1920 / 1280x960
MP5DN	2560 x 1920	2560 x 1920 / 1280x960 (For MJPEG – only 1280x960)
MP8D-L4	1600 x 1200	1600 x 1200 / 800 x 600

Limitations

ⓘ **Note:** See the Arecont Vision as they also apply for CBC products

- The CBC MP2 model and other CBC models may not be discovered via the auto discovery feature. The CBC cameras should be added manually.
- Due to a VideoEdge limitation, motion detection only handles resolutions of up to 1280x960 for AV1XXX, AV8XXX, AV2100, AV2105 and AV2110, motion detection can only handle resolution as half.
- Due to a camera limitation, for CBC cameras all MJPEG only cameras (Arecont: AVxx00, AV8180, AV8360 – CBC: MP1A, MP2A, MP5A and MP8D-L4) will stream at a higher FPS (reaching max FPS) when setting to 15FPS. FPS of 14 and lower are not affected by this issue.
- When upgrading to latest camera handler pack, note that the parameters of video streams may be changed to the default values. It is recommended to recheck video codec parameters when upgrading or restoring configuration backups.

Known issues

ⓘ **Note:** See the Arecont Vision as they also apply for CBC products.

- Live view and playback streaming (instant playback) on the VideoEdge does not "pace" delivery of large amounts of data well, causing overflows in network buffers at the VEclient. This issue is more noticeable when using higher bitrate cameras and will cause skipping in live video and playback on the VEclient. For video retrieval on higher bitrate cameras it is advisable to search and retrieve the clip, this will display the recorded video without this issue.
- VideoEdge receiving H.264 with timestamp prior to last one received. This is a firmware issue. Beta firmware has been received from Arecont and resolved the issue, awaiting formal release (Arecont Ticket: TECHSUP: 15516).

Special points

CBC model cameras with firmware version 62414 will be configured as their Arecont equivalent, also taking the Arecont model. In firmware 64238 CBC model cameras will be identified as a CBC model, but for codec parameters. CBC model cameras still correspond with Arecont model cameras.

Dahua

Supported key functions

- Video Streaming - Single and Dual
- Video Codec - H.264, MJPEG
- Audio Streaming
- Audio Codec - G711A, G711U, G726, AAC
- PTZ
- Dry Contact Events
- Query Device
- Edge Device Motion Detection
- Edge Device Face Detection

Required network ports

Port 80 is for HTTP

Port 554 is for RTSP

Default username and password

Username: admin

Password: admin

Supported camera firmware and model

Model	Minimum camera firmware version
IPC-HFW4231SP	2.460.0000000.16.R,build:2017-09-04
IPC-HDBW2421RP-ZS	2.620.0000002.0.R,build:2017-08-30
IPC-HFW5431EP-Z	2.460.0000000.16.R,build:2017-09-04
IPC-EBW81230P	2.600.0000.3.R,build:2017-08-30
SD5943OU-HNI	2.600.0000000.10.R,build:2017-09-06
NVS0104HDC	3.210.0001.6,build:2017-01-03

ⓘ **Note:** The Dahua camera handler supports Generic camera for those unlisted models. If one camera is not in the supported list but compatible with the Dahua CGI interface "DAHUA_HTTP_API_FOR_IPC_V1.30", it can be supported as a Generic camera.

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The specific Video stream feature characteristics by model families are:

Model family	Video stream feature
All Models	Dual Stream: H.264, MJPEG
Generic	Dual Stream: H.264, MJPEG

Audio stream feature

The specific Audio stream feature characteristics by model families are:

Model family	Audio stream feature
All Models	Dynamically acquire from camera
Generic	Dynamically acquire from camera

ⓘ **Note:** Dahua camera's audio stream is mixed with video stream, handler demux audio stream from "Video Stream 1".

Event stream feature

The handler uses HTTP polling mode to get the dry contact status. The maximum number of dry contact events supported by each camera family:

Model family	Max # of Dry Contact supported
All Models	Dynamically acquire from camera
Generic	Dynamically acquire from camera

Special points

- When you first login to the NVS, you must change the password and the password can’t be the same as the username, therefore s security group is required to be created on VideoEdge before you can add the NVS to VideoEdge.
- This handler will support Edge device Motion Detection and Alarm output directly from the camera.
- User needs to enable Edge based motion detection on the camera Web GUI before enabling on the VideoEdge.
- Camera Audio and Dry Contact will need enabled on the camera prior to enabling these on the VideoEdge, as the handler cannot directly enable these features
- The Camera handler will report an incorrect Bitrate range of 1 ~ 32000 Kbps (camera issue) its suggested user refers to camera WebGUI to determine correct supported bitrate range (1~24000 Kbps). If an incorrect Bitrate is set via the VideoEdge the camera will retain the previous valid bitrate setting and may not display the correct value on the VideoEdge GUI
- On the VideoEdge "Function & Streams" page, Stream 1 is associated to camera's "Main Stream" profile; Stream 2 is associated to camera's "Sub Stream" profile.
- Camera is set to auto-reboot for 60 seconds by 2:00AM everyday by default setting (this will result in a 60 seconds video loss), however this can be disable in camera WebGUI.

Limitations

Model	Limitations	Work around
IPC-HFW4231SP IPC-HDBW2421RP-ZS IPC-HFW5431EP-Z IPC-EBW81230P SD5943OU-HNI NVS0104HDC	(Bug 517545) Camera model will display as Generic with the latest Dahua Handler.	Upgrade the Firmware to the Firmware versions listed in the Supported Camera Firmware & Models table.
All	(Bug 519652) Camera Firmware issue : All camera resolutions cannot be changed from the VideoEdge Admin GUI.	To change the resolution on the cameras, navigate to the camera webpage, select Camera > Video, and save the new resolution value. This will update the resolution on the VideoEdge Admin GUI.
	(Bug 517415) The cameras fps on stream 1 cannot be less than stream 2. Reason: Camera Limitation	Set the fps on stream 1 to a higher fps value than what is set on Stream 2.
	[Bug 104409] Stream 2 (MJPEG) quality may be reduce automatically when dual streaming at high resolution. Reason: Camera limitation	User can control Bitrate in the camera WebGUI to ensure the MJPEG's image quality is acceptable.
	MJPEG quality will not display on VideoEdge web page however camera will not support it - to control MJPEG use camera's web interface Bitrate setting.	
HDB3300 HFW3202C	[Bug 104101] There will be periodic frame loss when dual stream is enabled with these settings (H.264 25fps/1080P + MJPEG 25fps/D1 +audio).	Lowering MJPEG will prevent a high loss of fps

Model	Limitations	Work around
HFW3202C	[Bug 104103] When camera is set to dual stream, user will observed missing frame during test due to low fps. Reason: Camera limitation	Lowering MJPEG will prevent a high loss of fps
	[Bug 104543] fps will drop and mosaic image will be observed when user triggers Dry Contacts. Reason: Camera limitation	N/A
	[Bug 104598] fps for both codec will be reduced when dual steam enabled. Reason: Camera limitation	N/A

Model	Limitations	Work around
	Due to camera limitations the resolution settings available depend on the bitrate settings configured. See recommended settings for H.264. MJPEG bitrate settings cannot be changed via the VideoEdge.	For Codec H.264: Recommended Bitrate settings for a good quality image – please configure as required: For Resolutions at 4CIF the best bitrate is 4096 as set by VideoEdge GUI. For Resolutions at 1280 X 720 Bitrates should be set to 8192 as set by VideoEdge GUI. For Resolutions at 1280 X 960 Bitrates should be set to 8192 as set by VideoEdge GUI. MJPEG bitrate settings should be set via the camera web interface before adding the camera to the VideoEdge.
NVS	Due to the Dahua lock policy where you are required to change the camera password, when using auto discovery after a password change, there will be instances of “UNKNOWN” to be displayed for the camera properties on VideoEdge. This is due to the failed attempts for VideoEdge auto discovery to query the camera but the password has been changed on set up. This is due to Dahua lock out policy and is seen if the default password is changed and auto-discovery is enabled on the VideoEdge.	To Limit the problem caused by this issue please disable auto-discovery

Known issues

Model	Known issue	Work around
All	The FW shows as empty in the camera list. Reason: Camera issue	N/A
	Camera Web GUI H.264 Bitrate different from CGI's return when user set an invalid Bitrate to camera. Camera will not report error. Reason: Camera issue	It's suggested user refers to camera Web GUI to determine correct supported bitrate range
	Users may not be able to apply large incremental fps changes at one go. Reason: This is a camera issue.	Change the fps using smaller increments, for example, 30fps > 20fps > 15fps > 10fps
	When adding a camera which is very slow like IPC-HDB33000 to the VideoEdge, it may report a "No VE Text response after waiting 5000 milliseconds" but action will still be successful. Note: This will also cause the issue in TFS104504- when add IP camera with default association, audio cannot be added successfully together. Reason: Camera issue	N/A
	VideoEdge web page may report "Server error"/ VideoEdge generate core file when user operate some camera which is very slow like HDB3300.	User should go back to the previous page to configure it again.
	VideoEdge web may show "server error" when user is trying to access the following tabs: Alerts, Function & Stream, and Image Settings.	User should navigate back to the previous page and try again.
	A/V is out of syncs during live view on both audio codecs (G.711a and G.711u) in VE Hybrid local client.	N/A
	Search and retrieve in victor sometimes fail, many "exportClip" process will be generated and VideoEdge CPU will reach to 100%	N/A

Model	Known issue	Work around
	When enabling VideoEdge "Motion Detection" from a single stream configuration, the webpage may report "server error" with a core dump file but motion detection we still work.	User should enable the 2nd MJPEG stream manually before enable VideoEdge "Motion Detection" functions
	During test we experienced audio [PCMA] loss (40%) when checking VideoEdge audio record statistics. Reason: Camera issue	User should use PCMU for live only, If user wants to record video we recommend using PCMA.
	When Edge based is enabled and user deletes the camera, the camera shows as “Unknown” in the Video List and stream will not display in victor unified client. Reason: VideoEdge issue	Restart the VideoEdge Services in the VideoEdge Web GUI (VideoEdge Web GUI>Advanced>Shutdown>Restart VideoEdge Services>Apply)
	There is no auto-configured second stream when the camera is first added to the VideoEdge after being factor defaulted	There are 3 options: 1. Delete and re-add the camera 2. Enable stream 2 manually 3. Disable and re-enable auto-configuration
HFW5431EP-Z	Due to a camera limitation on camera performance, the camera fps can fluctuate from 25fps to 15fps. The fluctuation is seen for approximately 1 second. If you have video Analytics enabled the issue will be more frequent.	This is a camera limitation.
SD6582A-HN	When adding the camera into VideoEdge, the module name shows as "SD65XX-HN" in the VideoEdge. Reason: Camera issue	N/A
	Video contrast cannot be modified through VideoEdge Image Settings. Reason: Camera issue	User should set the video contrast in the camera Web GUI.
	The camera cannot be added into VideoEdge using personalized password groups Reason: Camera issue	Always use default password for this camera

Model	Known issue	Work around
SD6582A-HN IPC-K100W	Audio [PCMA]/video are not synced in Search and Retrieve or downloaded clip from victor Client. Reason: Camera issue	User should use PCMU for live only, If user wants to record video we recommend using PCMA
	When 2 alarms are triggered simultaneously, only one alarm event will be notified in the victor Client Activity log. Reason: Camera issue	N/A
HDB3300	When Search and retrieving clip in victor, video & audio cannot be retrieved successfully. Reason: VideoEdge issue	N/A
	When associating audio to video on this camera VideoEdge may report "cannot update resource stream parameters" error but the action will still be successful.	User should refresh the VideoEdge web page.
HFW3202C	We are unable to support Zoom functionality on this camera - buttons may shows but this will not work as expected. Reason: Camera issue	N/A
	We do not support Focus functionality on this camera	User should perform focus adjustments on the camera Web GUI.
IPC-K100W	The VideoEdge will show the IPC-K100 model to incorrectly support 2 Dry Contact inputs when camera only has 1 Dry Contact input.	User should ignore the 2nd Dry Contact input.
	On the Image Settings Page, the following Error message will state : “could not retrieve the video or lens properties” The Lens/Sensors Day/night dropdown is blank.	Configure the day/night settings via the camera's web interface: Camera GUI -> Setup -> Camera -> Conditions -> Day & Night. These settings will remain configured when the camera is added to the VideoEdge.

Model	Known issue	Work around
HDB3300 HF3101	When adding IP camera with default association, audio cannot be added successfully together.	Audio stream can be added separately and later associated to the camera. User should click the "Add New Device" button in the "Audio List" page and enter camera details. User can then associate the audio stream to the video stream manually from the "Function & Stream" page by selecting it from the "Associate Audio" dropdown list.
NVS	Edge based motion alarms are only triggered on one channel of the encoder, not all channels will receive the alarms. This is due to a VideoEdge known issues and is fixed in VideoEdge 5.0 and later.	N/A

exacqVision

Supported key functions

- Video Streaming – Single and Dual
- Video Codec –H.264, MJPEG, MP4V
- Audio Streaming
- Audio codec supported depends on camera functionality
- PTZ
- Dry Contact Events
- Query Device
- Reboot Device

Unsupported key features

Edge Motion and Metadata

Supported camera API and models

Model	Minimum camera firmware version
Encoders E-ADE1C, E-ADE4C	V1.2.0.140801

Note: Generic model is fully featured for unlisted models supporting dual video streaming, audio stream, PTZ, dry contact events and query device to discover camera capabilities. For specific models, the handler dynamically queries the capabilities from the camera.

Required network ports

Port 443 is for HTTPS

Port 554 is for RTSP

Default username and password

- Username: admin
- Password: admin256

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The specific Video stream feature characteristics by model families are:

Model family	Video stream feature
E-ADE1C, E-ADE4C	Single/Dual stream supported codecs: H.264, MJPEG, MP4V
Generic	Depends on camera capability

Audio stream feature

The specific Audio stream feature characteristics by model families are:

Model family	Audio stream feature
E-ADE1C, E-ADE4C	G711mulaw
Generic	Depends on camera capability

Event stream feature

Handler uses HTTPS polling mode to get the dry contact status. The maximum number of dry contact events supported by each camera family:

Model	Max # of Dry Contacts supported
E-ADE1C	1
E-ADE4C	4
Generic	Depends on camera capability

Special points

1. Before adding the camera into VideoEdge, users should restore camera to factory default through camera web page. To Change the IP address if not known or set to default please use the camera IP tool that is supplied with the camera.
2. Before using Dry Contact Events function, users should configure alarm input "Arming Schedule" on the camera's web page via Configuration -> Alarm Settings -> Arming Schedule (for example, configure schedule to 7x24 hours.).
3. The Conversion from camera web interface to VideoEdge for MJPEG Quality are as follows:

- Lowest -20
- Lower - 30
- Low - 45
- Medium - 60
- Higher - 75
- Highest - 90

- Limitations

Model	Limitations	Work around
All	Can't change MJPEG quality on VideoEdge web page if the Bitrate Type is set to “Constant” on camera web page.	User should first go to camera web page change Bitrate Type from “Constant” to “Variable” (Configuration -> Video Settings -> Bitrate Type) before user can change MJPEG quality on VideoEdge web page.
	Changing active state for dry contacts from the VideoEdge web page will cause the encoder to reboot. The same behavior can be observed on the encoder’s web page.	N/A – This is an encoder issue.

Known issues

Model	Known issues	Work around
All	Patterns are not supported for UD8 due to an encoder limitation	N/A
All	PTZ Speed is slow when encoder is used with Bosch and Pelco cameras. This is an encoder issue.	This is only for the victor/Local client dome control. User can use the keyboard or click and drag function through victor/ Local client to achieve faster PTZ speed for Pelco cameras. Bosch Camera PTZ cannot be made faster.
All	When the encoder is first added to the VideoEdge the resolution of the second stream is set to the highest resolution.	For the User to enable motion detection the second stream configuration should be enabled and the resolution decreased before motion detection can be enabled.
E-ADE4C	When 2 or more cameras are connected to the encoder, the PTZ action is carried out on both cameras. This is an encoder issue as the encoder has an issue when two channels operate with the same baud rate.	User configures different baud rate for each PTZ channel by changing the baud rate for the selected “Channel No.” (Configuration -> Serial Port Settings)
All	VideoEdge Auto Discovery Snapshot displays a gray screen	This maybe be displayed after refreshing the snapshot

Model	Known issues	Work around
E-ADE4C	Max fps is determined by the camera connected to channel one. This will display as either 25fps (PAL) or 30 fps (NTSC) depending on what this camera supports. The fps range on Channels 2-4 will match the fps range on Channel 1, no matter what the camera capability.	If one camera supports a higher Max fps than other cameras on the encoder, it is recommended to add this to Channel 1.
All	At default for the cameras the I Frame Interval is set to 100, this may cause streaming issues for the 1 & 4 channel Encoder for playback function. To reduce the impact the User should modify the I Frame option on the Encoder Web GUI so it is in sync with the FPS value set on the camera.	To reduce the interval, access the encoders web GUI, navigate to: Configuration > Remote Configuration > Camera Settings > Video Settings edit “I Frame Interval”Set the I Frame Interval to the same value as the FPS

FLIR

Supported key functions

- Video Streaming – Single and Dual
- Video Codec - H.264, MJPEG and MPEG4
- PTZ
- Query Device
- Dry Contact Events
- Edge Device Motion Detection

Unsupported key functions

- Reset to factory default
- Audio Streaming
- Reboot Device

Required ports

- Port 8090 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: fliradmin

Firmware requirements

PT-602CZ	Nexus server must be at least v2.5.32.0
Nexus Server F, D & PT-Series	Nexus server must be at least v2.5.17.14.
F, D & PT-Series	FLIR Camera Firmware must be ww1.4.1 or later with Tyco_VE44_Compatibility_patch.sh.
FC-S & FC-R Series	Nexus server must be at least v2.5.27.9
PT-HD Series	Nexus server must be at least v2.5.30.29
FC-ID Series	Nexus server must be at least v2.5.29.12
A310pt	Nexus server must be at least v2.5.29.3

Video stream feature

Dual streams are supported by all models.

For PT-Series, F-Series, D Series & A310pt, only MJPEG can be used for second stream whether single or dual streaming

Some FLIR cameras require additional patch

Some FLIR cameras require additional patch Tyco_VE44_Compatibility_patch.sh, this patch applies to the following models and firmware versions:

- F-Series, WW1.4.1 firmware

- PT-Series, WW1.4.1 firmware

- D-Series, WW1.4.1 firmware

To install the additional patch, please follow the procedures out-lined below:

Upgrade the Camera Firmware to ww1.4.1

Upload the additional Patch (Tyco_VE44_Compatibility_patch.sh) after the camera is upgraded to ww1.4.1

Check the Firmware has upgraded.

Firmware upgrade procedure:

1. Upgrade the Camera Firmware to ww1.4.1
    a. Upgrade the FLIR camera using the FLIR Firmware Update Tool (FFUT) available for download in the FLIR website, http://ns.flir.com under the Downloads section. Install and run the FFUT, Follow the steps 1-4 below to upgrade camera:
    b. Setup: Click on “Setup” and select your camera models.
    c. Check for updates: Click on “Check for Updates” and the tool will connect to the Internet and download to your computer the latest firmware version for your camera models.
    d. Detect & Upgrade: Click on “Detect & Upgrade” my FLIR Device in order to discover the cameras on the network.
    e. Begin the upgrade: Select the camera model you want to upgrade and click on “Upgrade” to begin the upgrade.

2. Upgrade for installation site with no internet access:
    a. Download the firmware corresponding to the D-series/PT-Series/F-Series in your office to a PC which will be performing the installation.
    b. Go to settings and make sure the D-series/PT-Series/F-Series is checked.

c. Go back to Check for updates and this process will download the firmware for this camera.
d. Go to the installation site and click on Detect & Upgrade to search your camera.
e. Select the camera and upgrade.

✓ **Tip:** Or alternatively, contact FLIR support (nexus.support@flir.com) who will upgrade/ provide support to upgrade the camera firmware:

3. Upload Tyco_VE44_Compatibility_patch.sh using the following steps:
   a. Unzip file 141_Tyco_VE44
   b. Access camera web interface
   c. Select Maintenance ->Files ->Firmware
   d. Stop Nexus Server via green control (Bottom left corner of camera web interface)
   e. Scroll down Firmware page to Firmware section
   f. Click Brown button
   g. Select file Tyco_VE44_Compatibility_patch.sh
   h. Select Upload button

   ⓘ **Note:** This will take a few minutes and the web interface will not respond until the upload is complete. Camera will reboot.

4. To check if camera has upgrade correctly:
   a. Wait for camera to reboot
   b. Access camera web interface
   c. Select Help ->Scroll down page

ⓘ **Note:** The following should appear below Hardware Information:

Tyco VideoEdge 44 Compatibility PatchCreated on Thu Mar 27 2014

Fixes and enhancements

FLIR's F, PT, D Series cameras (refer to section "Some FLIR Cameras require additional patch") need to be upgraded with specified FLIR Release Firmware (ww.1.4.1 with the Tyco_VE44_Compatibility_patch and Nexus Server 2.5.17.14) to work with VideoEdge.

Nexus Server Version

2.5.17.14

FLIR Firmware Version

ww.1.4.1 with additional Tyco_VE44_Compatibility_patch

Table 43: Fixed issues and enhancements

Issues	Root cause and resolution
Zoom in and Zoom out not working for the D/PT series camera as a result of firmware upgrade.	Required re-implementation of zoom support using new CGI command sequence which was recommended by FLIR.
PTZ controls not working for D/PT series cameras as a result of firmware upgrade.	Required adjustment to time of retry CGI commands.
Bit Rate Range on VideoEdge 4.4 is different to Camera Bit Rate Range.	VideoEdge Bit rate range required modification to correspond with camera bit rate range.

Known issues and limitations

Table 44: Known issues

Issue	Description	Comment
FLIR D-324 – The DLTV lens for the camera will not stream on victor.	The DLTV lens for the camera will not stream on victor.	To stream video, enable TCP model on victor client or TCP mode on VideoEdge for FLIR, this will allow the lens to stream correctly.
Camera issue: Edge motion detection is not supported for FC-644-ID camera.	It may trigger once when turned on, but no alerts will be received after the initial trigger.	Seems to be an issue with the camera or the firmware version.
When Zoom levels are set at minimum zoom for presets, switching between presets will not retain different zoom settings	Set up each preset with a minimum of +1 click zoom level across the presets	.
When fps is set at 16 or above, the fps will fluctuate based on the scene and environment for the FC-324-R camera.	Set the fps to max 15, to reduce fps fluctuation	The stream will not keep a steady fps even with low camera CPU usage.
FC-R Models support Edge motion, spot temperature and area temperature but only one alert is received in victor.	If all three edge events are enabled only the first alarm enabled will be displayed in victor.	This means that only one edge alarm will work at once.
There are issues with PTZ on both PT/D-series models on local client on the VE Hybrid whereby the camera will occasionally freeze when PTZ controls are being used	The camera may freeze for a few seconds during PTZ movement on either the IR/ DLTV lens.	This only happens on local client. The issues may be caused by slow decoding speed on local client.
Camera limitation: Dual streaming H.264 / H.264 or MP4V / MP4V gives an error message; "Could not update stream 1 video codec" This is expected behavior due to the Camera limitation for Supported Codecs.	The camera does not support H.264 / H.264 or MPEG4 / MPEG4 combinations. Therefore the VideoEdge will provide an Error message as expected when a Users tries to configure these settings.	Due to the VideoEdge VE API limitation, the VideoEdge Web GUI will show all three resolutions on the 2nd Stream. However only MJPEG is supported on the second stream and so only MJPEG as the second stream can be used for dual streaming. See table below stating the Supported Dual Stream Configurations & Resolutions

Table 44: Known issues

Issue	Description	Comment
Issues with MP4V configuration for Single and Dual Streaming. If a User tries to configure the MP4V Stream for Single or Dual Streaming Configuration the settings may not apply.	MP4V codec configuration for Single or Dual Streaming may not configure correctly.	Users are recommended to limit the codec settings to H.264 and MJPEG. Users are not recommended to use MP4V codec for Single or Dual Streaming configuration. Please refer to the table below on the Limitation on Configuring on MP4V Codec for Single or Dual Stream(s)
For D-series, PT-Series and F-Series cameras, the resolution list on the VideoEdge is not correct for the second stream (MJPEG).	Due to changes to the supported resolutions of 2nd stream on both IR/DLTV Lens, unsupported resolutions appear in the resolution list for the second stream.	See table below stating the Supported Dual Stream Configurations & Resolutions.
Users should only open one preset control at a time.	When adding/editing presets on IR/DLTV lens, user must close the preset controls on the other lens.	
MJPEG stream appears blank when you add second stream with different video standard.	Stream #2's resolution is blank when stream #1 and stream #2's video standard is different. For example: Stream 0 = PAL Stream 1 = NTSC	Camera should not be configured to different video standards on each stream as this is not supported by FLIR cameras.
When enabling motion detection the second stream is automatically configured to MP4V.	The second stream must then be manually changed to MJPEG. Click edit > change the codec on the second stream to MJPEG> Click save.	
F Series Model shows different resolution in Quick Time than resolutions which has been set on VideoEdge	When camera is opened on Quick Time resolution is incorrect	This is a Quick Time issue

Camera limitations

	Camera limitation
Camera issue: The Pan and Tilt controls may become unresponsive intermittently on the D-Series cameras. This is also on the camera web interface.	Camera issue which FLIR have created a patch for in ww1.4.1 Compatibility Patch firmware which resolved the issue in Nexus Server 2.5.17.14. Ensure the “Tyco_VE44_Compatibility_patch” is installed on top of the ww1.4.1 firmware.
The updated FLIR cameras with Camera Firmware version ww1.4.1 has the NTSC/PAL Suffix removed from the camera.	The handler has been updated to reflect the extension removal as part of the camera firmware release: ww1.4.1 The suffix extensions have also been resolved by the ww1.4.1 Compatibility Patch.
IR/DLTV lens for all D/PT/F-series cameras support MJPEG only as 2nd stream. This is due to the change in Camera firmware version ww1.4.1	The FLIR cameras with Firmware version 1.4.1 will only support MJPEG as its second stream. This is the only second stream codec that the FLIR camera supports. Therefore the supported dual stream combination on VideoEdge is: H.264 / MJPEG MJPEG / MJPEG MP4V / MJPEG Any other combination is NOT supported by the camera and the VideoEdge will produce an error message stating; “Could not update stream 1 video codec.”
D/PT/F series cameras only. The camera web interface video profiles work as following to reflect the different streams: Video 0/1 refers to stream 1 and 2 of the IR video. Video 2/3 refers to stream 1 and 2 of the DLTV video.	The following are the Video Profiles and supported configurations: Video 0: Configurable H.264 / MJPEG / MP4V IR stream Video 1: Non-Configurable MJPEG IR stream Video 2: Configurable H.264 / MJPEG / MP4V DLTV stream Video 3: Non-Configurable MJPEG DLTV stream
With cameras which have both an IR and DLTV lens, any changes on one stream will cause the camera to go offline on both streams for the new settings to take effect.	This is expected behavior of the camera as the Nexus Server restarts when stream settings are saved.
On device list page for D-324 the firmware is showing as 2.5.13.3 instead of 2.5.16.0 which is reflected on the Camera Web GUI.	Camera issue: Cosmetic issue from the camera sending the information to the VideoEdge.

	Camera limitation
Camera resolution 176 x 144 is no longer a resolution option on the VideoEdge for the F-Series camera. This is due to the new Camera Firmware ww1.4.1 which does not support this resolution.	See table below stating the Supported Dual Stream Configurations & Resolutions.
When streaming codec H.264 at a low fps/ resolution, the camera does not stream a clear image; It may appear gray or black on victor. After a while the image may appear as normal.	This is a camera limitation as the camera does not stream when configured to these settings.

Compatibility issues

	Compatibility issue as result of upgrade
Camera Nexus CGI interface and web service share same port: 8090	User must close the camera web interface before adding FLIR cameras to VideoEdge. Opening the camera web interface and running FLIR handler on VideoEdge at the same time may affect CGI communications between the camera and VideoEdge causing video loss or other undesired results.

Supported dual stream combinations and resolutions

Camera	Video Standard	Stream 1 Codec (Video Profile 0/2)	Stream 1 Resolution (Video Profile 0/2)	Stream 2 Codec (Video Profile 1/3)	Stream 2 Resolution (Video Profile 1/3)
D-Series PT-Series F-Series	NTSC	H.264 MJPEG MP4V	720 x 480 704 x 480 640 x 480 352 x 240 320 x 240	MJPEG	640 x 480 320 x 240
	PAL	H.264 MJPEG MP4V	720 x 576 704 x 576 352 x 288	MJPEG	704 x 576 352 x 288

Limitations on configuring MP4V codec for single or dual stream(s)

In some cases due to camera limitations, the First and Second stream profiles may not support the same Codec, fps and Resolution. When editing such streams on VideoEdge this may perform a stream swapping, where a swap of the stream index may occur. This will cause VideoEdge to swap stream 1 (which should usually index to the primary stream) to a secondary stream profile which will have specific limitations. This swap cannot be detected by the VideoEdge camera configuration page so both streams will give full configurable video configuration options.

For example for FLIR Cameras, Stream 1 supports 3 (H.264 / MP4V / MJPEG) codec but the Second stream only supports 1 (MJPEG) codec, the handler would try to do its best to maintain a stable resource to stream mapping. In some cases, the mapping may switch between Stream 1 and Stream 2. When the codec is selected on the first stream which supports H.264 / MP4V, stream

swapping may occur causing the first stream to fail streaming H.264 / MP4V codec as H.264 / MP4V is not supported on the second stream.

Model	Description	Root cause	Recommend workaround
D-Series PT-Series F-Series FC-Series	1. This issue relates to MP4V configuration. This issue occurs if cameras only support a subset of H.264 / MJPEG / MP4V on camera 2nd stream. 2. Note: The latest FLIR firmware (ww 1.4.1) only supports MJPEG on camera stream 2. 3. Occasionally, changing codec from H.264, MJPEG to MP4V on VideoEdge will not result on an actual stream configuration change in the camera. Live view may not occur after camera re-boot after user applies the codec change to MP4V via VideoEdge's Camera Configuration Page.	1. Camera handler provides camera Stream ID to VideoEdge based on the availability of a specific camera stream ID. Camera handler doesn't have any knowledge of the associated VideoEdge stream ID. 2. Stream swapping may occur within VideoEdge system in the background as design. 3. In the case when FLIR camera handler requests MP4V on camera stream 2, the camera will return "permission denied" as error. This is because MP4V is no longer a supported codec on camera stream for the latest FLIR camera firmware (ww1.4.1) As a result, the codec change selected by user is rejected by camera. User will notice that Live View will not come back as expected after camera reboot.	User is recommended to limit the codec settings to H.264 and MJPEG. If User has selected MP4V for any reason and finds the camera rejecting the change request, the User may try to re-add the camera to VideoEdge and re-configure camera to the desired stream settings.

Hikvision Corp

Supported key functions

- Video Streaming - Single and Dual
- Video Codec - H.264, MJPEG, MP4V
- Audio Streaming
- Audio Codec - G711mulaw
- PTZ
- Dry Contact Events
- Edge Based Motion Events
- Query Device
- Reboot Device

Unsupported key functions

Profile Change

VBR Bitrate Control

Supported camera API and models

Model	Minimum camera firmware
Fixed Camera DS-2CD4135F-IZ DS-2CD4132FWD-IZ	V5.2.2 build 140928
Fixed Camera DS-2CD2132F- I(W)(S) DS-2CD2120F- IWS	V5.2.3 build 141024
SpeedDome DS-2DF5284-A DS-6704HFI	V5.2.4 build 141009
Fisheye DS-2CD6362F-IVS	V5.0.9 build 141009
Encoder DS-6701HFI	V1.2.0 build 140414

Required network ports

- Port 443 is for HTTPS
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: 12345

Camera serial number

The VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The specific video stream feature characteristics by model families are:

Model family	Video stream feature
DS-6701HFI DS-6704HFI	Single stream H.264 / MJPEG / MP4V Dual stream H.264 / MJPEG / MP4V + H.264 / MJPEG / MP4V
DS-2CD4132FWD-IZ DS-2DF5284-A	Single stream First stream H.264 / MP4V Second stream H.264 / MJPEG / MP4V Dual stream H.264 / MP4V + H.264 / MJPEG / MP4V
DS-2CD2120F-IWS DS-2CD4135F-IZ DS-2CD2132F-I(W)(S)	Single stream First stream H.264 Second stream H.264, MJPEG Dual stream H.264 + H.264, MJPEG
DS-2CD6362F-IVS	Depends on camera source image mode
Generic	Depends on camera capability

Audio stream feature

The specific audio stream feature characteristics by model families are:

Model family	Audio stream feature
All	G711mulaw
Generic	Depends on camera capability

Event stream feature

The handler uses HTTP pushing mode to get the dry contact status of each camera. The maximum number of dry contact events supported by each camera family are:

Model	Max # of dry contact supported
DS-2CD2132F-I(W)(S), DS-2CD4132FWD-IZ, DS-2CD2120F-IWS, DS-2CD4135F-IZ, DS-2CD753F-E(I), DS-2CD853F-E(W) DS-2CD793PF(NF)-E(I)	1
DS-2CD7264FWD-E(I)Z(H)(S)	0
DS-2CD6362F-IVS	1
DS-2DF5284-A	7
DS-6701HFI	1
DS-6704HFI	4
DS-6708HFI	8
Generic	Dynamically acquire from camera

Special points

Before using Dry Contact Events and Edge Based Motion, users must first enable them on the camera's web GUI.

Dry Contact Events

1. Set “Arming Schedule”Advanced Configuration -> Basic Event -> Alarm Input -> Arming Schedule
2. Enable “Notify Surveillance Center”Advanced Configuration -> Basic Event -> Alarm Input -> Linkage Method -> Normal Linkage -> Notify Surveillance Center

Edge Based Motion

1. Enable Motion DetectionAdvanced Configuration -> Basic Event -> Motion Detection -> Enable Motion Detection
2. Set motion detection areaAdvanced Configuration -> Basic Event -> Motion Detection -> Draw Area
3. Set “Arming Schedule”Advanced Configuration -> Basic Event -> Motion Detection -> Arming Schedule
4. Enable “Notify Surveillance Center”Advanced Configuration -> Basic Event -> Motion Detection -> Linkage Method -> Normal Linkage -> Notify Surveillance Center

For the PTZ camera DS-2DF5284-A, if the user wants to control iris on victor client, they should change the Exposure Mode to “Manual” on camera’s web GUI before adding to the VideoEdge.

When the fisheye camera (DS-2CD636F-IVS) is first added to the VideoEdge, there will be five channels, however this will not allow for streaming. The user can either delete the fisheye stream to allow for streaming on the other four channels or if they wish to use the fisheye stream, streams two to five should be deleted from the VideoEdge.

Quality values are displayed as integers on the camera’s web GUI, however the VideoEdge uses six levels of quality to display these (Lowest – Highest). This is mapped depending on the values offered by the camera.

All Hikvision cameras will fail to add to VideoEdge if the check box “Enable Hikvision-CGI” is not enabled. This can be found on the camera web GUI under Configuration > Network > Advanced Settings > Integration protocol.

Limitations

Model	Limitations	Work around
DS-2CD2H55FWD-IZS DS-2TD2136-15 DS-2CD2635FWD-IZS	While the maximum resolution is set, the cameras will experience fps fluctuation and video skipping if the fps is set to 20, or below 6. Reason: Camera Limitation	Set the fps to a value between 8 and 20, or use a resolution below the highest.
All models	The camera cannot be added when H.264 is in use. Reason: Camera Limitation	The camera should be added using MJPEG. Then after the camera is added to the VideoEdge the user can go back to the camera’s web GUI and set the H.264 profile which will then be applied on the VideoEdge This issue is fixed in release 4.6.0.742

Model	Limitations	Work around
All models	If the user were to edit the bitrate control from VBR to CBR then to VBR, quality may be reset to its default value Reason: Camera Limitation	The user will have to manually change the quality setting via the VideoEdge GUI
All models	If Bitrate is set to CBR on the camera's web GUI, the user will be unable to set MJPEG quality on the VideoEdge Reason: Camera Limitation	The user should first go to the camera's web page and change Bitrate from CBR to VBR (Configuration -> Video Settings -> Bitrate Type). The user should now be able to edit the MJPEG quality
All encoders	Changing the state of the dry contacts feature will cause the encoder to reboot Reason: Encoder behavior	N/A
DS-2CD4132FWD-IZ	The fps for stream 2 cannot be set to 22/25 while stream 1 is under the highest resolution Reason: Camera Limitation	Lower the resolution of stream 1 to enable a higher fps on stream 2
DS-2CD4135F-IZ	The VideoEdge doesn't support fps 50 so this shouldn't be set on the camera Reason: Camera Limitation	N/A
DS-2CD2132F-I(W)(S) DS-2CD2120F-IWS DS-2CD4135F-IZ DS-2CD6362F-IVS	Wide Dynamic Range (WDR) should be enabled when the camera is added. Reason: Camera Limitation	WDR can be disabled after the camera is added to the VideoEdge. On the camera's GUI go to Advanced Configuration -> Image -> Backlight Settings -> WDR. Once WDR is closed on the camera's GUI, the feature will no longer be enabled on the VideoEdge
DS-2CD6362F-IVS	HTTPS is not supported for this camera Reason: Camera limitation	N/A
DS-2DF5284-A	The iris function works as a nudge, not as continuous Reason: Camera limitation	N/A
DS-2CD6362F-IVS	Edge Based Motion is not supported on Source Image 4 on this model Reason: Camera Limitation	N/A

Known issues

Model	Known issues	Work around
All models	Profile cannot be selected on the Functions & Streams page on the VideoEdge. Reason: VideoEdge Issue	Navigate to the camera web-page, under Configuration > Video/Audio. Select the required Profile from the Profile dropdown, and select Save.
All models	Adding a camera using HTTPS protocol. Due to a camera limitation, there is an extended delay when adding the cameras to VideoEdge when using HTTPS protocol. This will result in the camera not adding to VideoEdge. Reason: VideoEdge Issue	Add the camera with HTTP. Once added, navigate to Setup > General, and change the security group of the camera to a group with HTTPS enabled.
All models	When VBR is selected as the Bit Rate Control, the Bit Rate value cannot be saved. Reason: Camera Issue	To use VBR, navigate to the camera web-page, configuration > Video/Audio. Select the required Bit Rate in the Max Bitrate drop-down list, and select Save.
All models	When adding the camera to a micro VideoEdge sometimes the default settings are not applied properly, i.e. motion detection is not applied correctly and the recording mode is set to Recording Always Reason: VideoEdge issue	The user will have to reconfigure the camera to their desired settings. If they wish to set up motion detection they should follow these steps: 1. Enable Alarm on the second stream, click save.2. Set the codec of the second stream to MJPEG, click save.3. Change the fps and resolution to the required settings i.e. 7fps and 320 x 240 resolution, click save.4. Select your preferred recording mode and select Motion Detection in the Video Analysis dropdown, click save.
DS-2CD6362F-IVS	The audio volume is always 100 on the VideoEdge's web GUI, this is regardless of the volume on the camera Reason: Camera issue	N/A
All encoders	For the multi-channel encoder, the VideoEdge can only receive the Edge Based Motion event of the first channel. Reason: VideoEdge's issue	If the user wants to use Edge Based on a particular camera, this camera will have to be in channel one.

Model	Known issues	Work around
All encoders	PTZ pattern setting are invalid for UD8 analogue camera Reason: Encoder's issue	N/A
All encoders	PTZ Speed is slow when encoder is used with Bosch and Pelco cameras. Reason: Encoder's issue	This issue is only present in victor and the Local Client dome control. The user can use a keyboard or click and drag function through victor/Local Client to achieve faster PTZ speed for Pelco cameras. Bosch Camera PTZ can't be made faster.
All encoders	When 2 or more PTZ cameras are connected to the encoder, the PTZ action is carried out on both cameras. Reason: Encoder's issue	N/A
All encoders	PTZ works abnormally for Pelco cameras under Pelco-D protocol. For the pan and tilt, sometimes the PTZ fails to stop in time. Reason: Encoder's issue	N/A
Cameras that support 1 stream or Fisheye models	When a camera only supports one stream or does not support motion detection when adding it the VideoEdge please disable the 'Enable Smart Search' check box as these camera will not support this feature. If this is not disabled then it may cause the camera to take longer to add and require a refresh of the browser	As some fisheye models support 4 channels and 3 of them are single stream this can take the camera longer to add please disable the 'Enable Smart Search' check box before adding. After adding you can then enable motion detection on channel 1.

ONVIF

The ONVIF Camera Handler will allow the VideoEdge to be compliant with the standardization initiative for IP-based video cameras defined by ONVIF Profile S Specifications [1] illustrate the level of compliance currently supported by the ONVIF handler.

By complying with these standards, the VideoEdge should be able to communicate and interact with the majority of ONVIF compliant IP-based cameras.

Note: You must pre-configure each camera before you add it to the VideoEdge – see Mandatory ONVIF Camera Prerequisites. The configuration will be on a camera to camera basis, with the minimal configuration consisting of an IP address & password ranging up to various different settings (e.g. video codecs, audio and dry contact settings) which normally require a camera unit reboot in order for the new settings to take effect.

The appendix outlines the specific configuration steps required for one particular camera i.e. the HikVision Speed dome camera.

Mandatory ONVIF camera prerequisites

Step	Configuration	Description
1	Camera Web Page	Assign Camera IP Address (and password) User must first assign an IP address to the camera (follow the manufacturer's instructions).Optional - For increased security, change the camera's default password. (Do not lose the new password – otherwise follow the manufacturer's instructions to reset the camera to factory defaults).
2	Camera Web Page	Date and Time/Time zone User must go to the camera web page and change the Date & Time/Time zone to match the VideoEdge recorder. (CRITICAL) Otherwise the camera's WS-Username token authentication protocol will reject all ONVIF requests from VideoEdge if the time is greater than 5 minutes drift. VideoEdge will be unable to add the camera.

Step	Configuration	Description
3	Camera Web Page	Disable RTSP authentication User must go to the camera web page and disable the additional RTSP authentication (if supported). The normal camera authentication (WS-Username token) will still apply – VideoEdge does not support the extra RTSP authentication. (CRITICAL) Otherwise VideoEdge will be able to add the camera using the WS-Username authentication but will be unable to stream media off the camera.
4	Camera Web Page	Dual Streaming User must go to the camera web page and configure the main stream as H.264 (or MPEG4). (CRITICAL) If dual streaming is supported by the camera then the secondary stream must be configured as MJPEG. The camera must be rebooted to commit the new codec settings. [Digital Watchdog]See Camera Limitations for Digital Watchdog devices.
5	Camera Web Page	Audio User must go to the camera web page and enable the Audio stream (if supported). (CRITICAL) If audio is supported by the camera then the camera must be configured to enable audio. Please follow the manufacturer's instructions to enable Audio

Step	Configuration	Description
6	Camera Web Page	Dry Contact Alerts User must go to the camera web page and configure 1 or more dry contacts (if supported). E.g., some alerts will be configured to trigger when normally open (NO) or normally closed (NC) (CRITICAL) The camera must be rebooted to commit the new dry contact settings.
7	Camera Web Page	Auto Iris/Focus If a camera supports the Iris and Focus features then these settings can be either set to auto or manually adjusted within victor GUI. However, disabling the auto feature is only supported in the VideoEdge Administration interface. Therefore, if the user is manually adjusting these settings then the auto Iris and Focus settings in the VideoEdge GUI image settings page must be disabled.
8	VideoEdge Admin GUI	Security User Account User must go to the VideoEdge Admin GUI and configure a Security User Account using the camera's username & password. The user account is required in order to add the camera to VideoEdge. [Digital Watchdog](CRITICAL) See Camera Limitations for Digital Watchdog devices.

Step	Configuration	Description
9	Mobotix	To add Mobotix camera to VideoEdge, follow the steps below; On the camera webpage, navigate to Admin Menu > Integration Profiles (under Camera Administration). Ensure ONVIF check box is selected. All changes require a save and reboot. On VideoEdge, create a security group with ONVIF RTSP Authentication enabled, and port assigned as 8080. Finally, add the camera with the above security group, and select Enable ONVIF.
10	Oncam	To add Oncam cameras to VideoEdge, follow the steps below; Create a security group with ONVIF RTSP Authentication enabled. A timeout issue results in the camera not adding first time. So retry several times to add the camera.

ONVIF Profile S

The ONVIF Profile S standard [1, 2] consists of a number of mandatory and optional features regarding video and audio streaming, multicast, PTZ and event/metadata support. The mandatory features are further subdivided into two areas:

Profile Mandatory Features – these are guaranteed to be supported between a device and client that are both conforming to the profile.

Profile Conditional Features – these shall be implemented if the device or client supports the feature.

All of i) and a large subset of ii) of the mandatory features are supported by the VideoEdge ONVIF handler.None of the optional features are supported by the VideoEdge ONVIF handler.

Enhancements and fixes

Fixed a core in the ONVIF handler where ONVIF Profile T device API requests were being rejected and improved robustness in dealing with API failures for the future.

Supported key functions

- Video Streaming – Single and Dual
- Video Codec - H.264 primary stream (or MPEG4),
- MJPEG as secondary stream (where supported)
- Audio Streaming
- Audio Codec - AAC, G711 and G726 (where supported)
- PTZ – applies to cameras with mechanical pan, tilt and optical zoom
- Dry contact events
- WS-Username Authentication
- Edge Motion Detection (Mandatory ONVIF Camera Prerequisites must be followed for full functionality)

Audio/Video stream feature

Changing the stream settings such as codec, resolution, fps or quality of a selected video stream may require up to 5 seconds of time delay to re-establish the video stream.

Video quality settings for MJPEG can differ across different manufacturers e.g. HikVision: 1-5, Illustra625: 1-100

Default username and password

- Username: admin
- Password: ADMIN

Limitations

The ONVIF standard can be interpreted in many slightly different ways by the various manufacturers who provide ONVIF enabled IP cameras. The VideoEdge ONVIF handler has been written to accommodate these differences but it’s been necessary to devise a number of configuration guidelines to aid with supporting an ONVIF enabled camera.

The 5.7.100 handler can only be installed on VideoEdge version 5.7.0.628 or higher. If you have an older 5.7 version currently install you must upgrade before applying any new handlers.

Table 45: Generic

Manufacturer	Known issue	Workaround
Generic (Camera limitation)	ONVIF Cameras that support Edge require all criteria to be met in order to throw motion alert. This means not all cameras that are ONVIF compliant will actually support Edge Analytics. The three criteria that need to be met are: GetEventProperties (Not all cameras have the API implemented) Subscription (Not all cameras support subscriptions) Pull Requests from subscription (Some cameras that have subscriptions may not support Pull Requests)	It is important to note that just because a camera may say they are ONVIF compliant, this does not always mean that they are. Checking on the ONVIF compliance site and for its compliant features is the way to determine this or by using the ONVIF device conformance tool.
Generic Across a number of manufacturers e.g. HikVision, Panasonic, Samsung, Truen (Camera limitation)	Frame Rates	Some camera models have a limitation with regard to their advertised frame rates. E.g., the frame rates available through the camera web page may range from 1/16, 1/8, ¼, ½, 1, 2, 4, 6, 8, 10, 12, 15, 16, 18, 20, 22, 25 fps. The frame rate available through the ONVIF protocol comes in the range min – max e.g. 1 – 25 fps. If the user attempts to configure an invalid fps e.g. 7 the device will e.g. accept the next lowest value (6 fps) but the web GUI will display 7 fps.

Table 45: Generic

Manufacturer	Known issue	Workaround
Generic (Camera limitation)	Resolution	Some camera models have a limitation with regard to their advertised resolution. E.g., the resolution available through the camera web page could be 4 available resolutions. The resolution available through the ONVIF protocol provides up to 8 resolution options on VideoEdge. If the user attempts to configure an invalid resolution, the device will e.g. accept the next lowest value available on the camera but the web GUI will display the resolution selected in the VideoEdge Administration Interface.
Generic (Camera limitation)	Camera Edge Motion Detection not supported	Camera Edge Motion Detection is not supported. We recommend it should NOT be enabled directly on the camera. Motion Detection can be enabled via the web VideoEdge GUI for the camera
Generic (Camera limitation)	Dry Contacts and Presets- Zero or one based issue	Dry Contacts and Presets – zero or one based issue. Some ONVIF camera manufacturers have different offsets for Dry contacts presets etc. Some use zero-based indexing, while others are one-based. The VideoEdge allows the user to fine tune the appropriate numbering offset on a per camera basis.
Generic (Camera Limitation)	All Camera Models- More resolutions appear on the VideoEdge resolution drop down list than the camera supports.	N/A

Bug fixes version 6.1

Release component:NVR_Handler_Pack-6.1.0.264.x86_64.isoThe following tables shows important bug fixes that support the adding of ONVIF devices .

	Description	Fix
	ONVIF Profile T device API requests were being rejected	Fixed a core in the ONVIF handler where ONVIF Profile T device API requests were being rejected and improved robustness in dealing with API failures for the future

Bug fixes version 5.7.2

Release component: NVR_Handler_ONVIF-5.7.200.18.x86_64.iso

For VideoEdge version 5.71, no new cameras were qualified for the ONVIF handler release. The following tables shows important bug fixes that support the adding of ONVIF devices .

Table 46: Bug fixes

ID	Description	Fix
769328	NVR failing to add more than one Digital Watchdog camera "DWC-MF21M4TIR"	Some Digital Watchdog camera older Firmware did not return model and hardware information and this caused an issue when adding more than one camera of the same type.
773790	Update Fix to support Profile S Username Token ONVIF requests.	Fix to support authorization of ONVIF requests for Profile S.
770084	ONVIF handler returns cached information after fw upgrade.	Update to re-query latest device information after a Firmware Upgrade.
773727	Fix for duplicate nonce in gSOAP requests.	Fix to further support authorization of ONVIF requests for Profile S.
773726	Fix NVR Bitrate Lockup issue via Axis device add.	When adding Axis devices using ONVIF it was found that the Bit rate information returned contained unexpected values and caused an issue within the NVR.
775017	TRUEN encoder will not add to 5.7.0 using ONVIF.	A small fix to support faster adding of the TRUEN encoder via the ONVIF handler.

Mobotix

Manufacturer	Known issue	Workaround
Mobotix	1. Camera will time out when adding to VideoEdge. 2. Video streaming with incorrect fps value. 3. No error appears on VideoEdge if an invalid bitrate value is saved.	1. To add the camera, create a security group with ONVIF RTSP Authentication selected, and the port specified. By default, the port is 8080. The full list of steps to add the camera, is found under the "Mandatory ONVIF camera Prerequisites" at the top of this section, under Point 9. 2. H.264 can be set to an fps of 42 on VideoEdge, while MJPEG can reach 30 fps on VideoEdge. However both codecs will stream at a maximum fps of 25 fps. There is no work around for this. 3. On VideoEdge, if a bitrate value that exceeds the maximum allowed bitrate is saved, no error will appear. Instead the bitrate will go back to its previously set value.

Oncam

Manufacturer	Known Issue	Workaround
Oncam	1. Camera will not add to VideoEdge 2. Saving MJPEG on EVO-05NCD will cause the camera to go offline 3. Cameras are added to VideoEdge as Fixed cameras, not as Fisheyes. 4. Video freezing 5. Cannot save Resolution values on VideoEdge 6. fps fluctuates 7. Bitrate values cannot be changed on VideoEdge 8. False positive motion alerts received	1. There is a timeout issue when adding Oncam cameras to VideoEdge. When adding the camera, an error will appear. Simply cancel and retry several times and the camera will add. The full list of steps to add the camera, is found under the "Mandatory ONVIF camera Prerequisites" at the top of this section, under Point 10. 2. Do not select ,MJPEG on VideoEdge. H.264 should be used for this model. 3. N/A 4. On both models, the highest resolutions cause video freezing. User should select the lowest available resolution to get stable video. 5. On EVO-12NCD, any resolution below 1472 x 1384 cannot be saved on VideoEdge. On EVO-05NCD, all resolutions can be saved, but the camera will only stream at 528 x 480. 6. fps values will fluctuate, and greater amounts of motion will causes a greater fluctuation. No workaround. 7. Bitrate values cannot be changed from the VideoEdge. The user should change the Bitrate from the camera webpage. 8. On VideoEdge, under Devices > Alarms, the user should edit the motion alarm, and select "Amount of Motion" to under 10%. This will prevent false positive motion alerts.

Avigilon

Manufacturer	Known issue	Workaround
Avigilon	1. RTSP Authentication: unable to stream camera via VideoEdge. 2. Video codec will not change from H.264 to MJPEG. 3. On the 5.0-H3-D1 model, cannot stream below 5 fps on H.264 codec. 4. On the 2.0-H3-D1 model, resolutions below 768 x 432 cannot be saved on VideoEdge 5. On 12W-H3-4MH-DO1-B, resolution values below 2048 x 1152 cannot be saved on VideoEdge 6. On the 5.0-H3-D1 model, some resolutions cannot be saved on VideoEdge 7. On the 12.0-H4F-DO1-IR model only the first Audio stream is supported.	1. In VideoEdge, RTSP Authentication is disabled by default. Normally, ONVIF cameras allow the user to enable or disable their RTSP authentication setting. However, RTSP authentication is mandatory for Avigilon devices's video & audio streams. Therefore, to add Avigilon devices to VideoEdge the user must configure the VideoEdge to handle RTSP Authentication. Change the RTSP as follows login as a support user > Support > Control RTSP Auth > Enable > Save. Then add the camera to the VideoEdge recorder 2. Change the codec to MJPEG on the VideoEdge Administration interface, and then change the codec to MJPEG on the camera web interface. 3. H.264 cannot stream below 5 fps. MJPEG can be used to stream all fps values below 5. 4. Cannot save resolution values below 768 x 432 for both H.264 and MJPEG. It is recommended that the resolution is changed on the camera webpage for the lowest resolutions. 5. Resolution values below 2048 x 1152 cannot be saved. It is recommended that these resolutions are changed on the camera web interface. 6. On H.264, resolutions under 768 x 432 cannot be saved on VideoEdge. For MJPEG, resolutions under 768 x 432 or above 1920x1080 cannot be saved on VideoEdge. It is recommended that these resolutions are changed from the camera webpage.

Canon

Manufacturer	Known Issue	Workaround
Canon (Camera limitation)	WS-Security: Check Time on Authentication. PTZ Presets. Image Pixelation during PTZ	If supported by the Canon camera then disable the WS-Security: Check Time on Authentication – otherwise VideoEdge will not be able to add the camera. PTZ Presets do not work with version VideoEdge 4.6. Go to the camera menu and change 'Target Bitrate' to greater than 12000, reboot camera after change.

Digital WatchDog

Manufacturer	Known issue	Workaround
Digital Watchdog (Camera limitation)	Port Number Dual streaming	Use port 8032 instead of port 80 ONVIF entry point for device management uses port 80. User can change the port entry via Admin GUI Devices/Security

FLIR

Manufacturer	Known issue	Workaround
FLIR	Camera may not add to VideoEdge 4.8.1. Camera may not add to VideoEdge release 4.9.0 onwards. PTZ Speed is slow and there may be a noticeable delay with presets being triggered Video maybe unstable. Resolution list on the VideoEdge may not be the same as the camera supports. Bitrate setting are not supported on the VideoEdge.	Please contact technical support on how to add to VideoEdge 4.8.1 Please use the prefer onvif check box to add via onvif successfully. There is no work around as this is a camera limitation We recommend using the following settings Stream 1: H.264 at 30 fps and a resolution of 1280 x 1024 Stream 2: MJPEG at 7 fps and a resolution of CIF (please set this up on the camera before adding) Please check the camera web page when selecting a resolution on the VideoEdge to ensure it is supported. Please change these setting on the camera webpage

Huawei

Model	Known issue	Work Around
IPC6224-VRZ	VideoEdge Motion Detection cannot be enabled	N/A

Predator Vision 360 HD

Manufacturer	Known issue	Workaround
Vision 360 Predator HD (Camera limitation)	PTZ Presets Video Loss	Choose “Presets as ’Number Only’” within the Predator camera's web interface Change the RTP Block Size to 1448 Select Video > Stream 1 > Advanced > Change the RTP Block Size to 1448 > Click OK

Redvision

Manufacturer	Known Issue	Workaround
Redvision (Camera limitation)	Dual streaming Set up ONVIF profiles for dual stream and stream configuration. Dry Contacts are not available on VideoEdge	Dual Streaming – Redvision cameras will respond incorrectly to a query determining the number of simultaneous streams the device supports. However there is a workaround available in VideoEdge to set the number of simultaneous streams to ‘two’. Please contact your installer for further details. To allow for dual stream please upgrade to the latest firmware. On the camera webpage, go to Video stream profile. Scroll to ONVIF Profile Sync, then click Sync. Firmware version 1.3.2280 must be installed on the camera for VideoEdge to receive Dry Contact alarms.

Sony

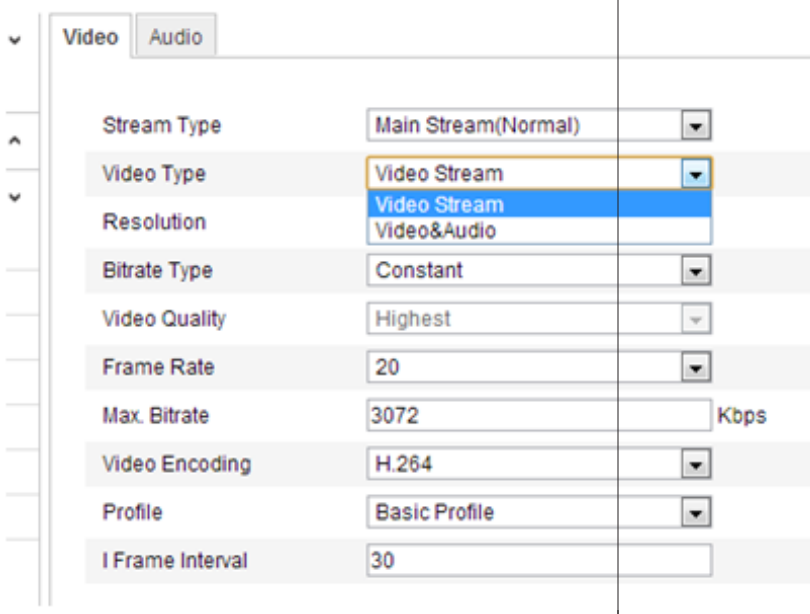
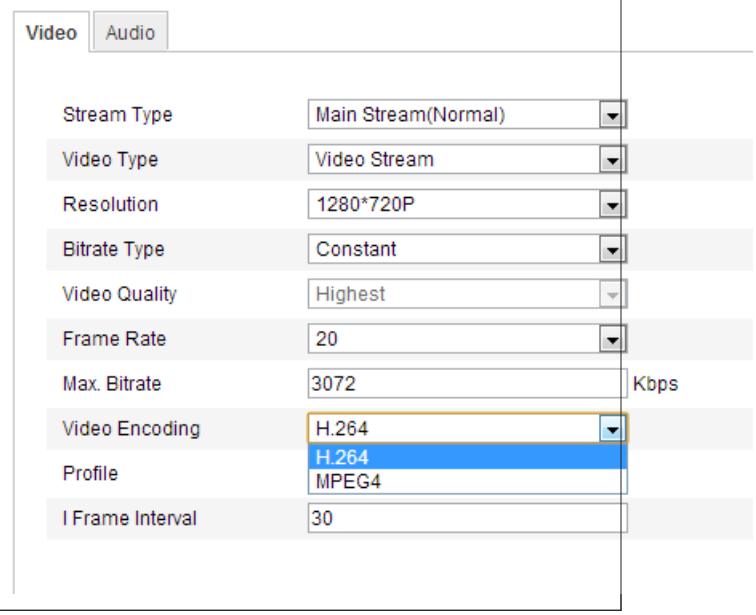
Manufacturer	Known Issue	Workaround
Sony 6th Generation	Dry contact alerts are not displayed on the VideoEdge Recorder. 726 Audio does not work. Camera will not add to the VideoEdge. No volume option on the VideoEdge. The bit rate does not work on the VideoEdge. The error “No Video Codec to select” is displayed on adding the camera. Focus and Iris displayed on victor Web and Local Client.	Sony ONVIF profiles only support the push mechanisms where the VideoEdge supports the Pull mechanisms. The Sony ONVIF profile is not fully ONVIF compliant Please use G711 or AAC Please ensure the fps and Resolution are at the lowest setting before adding. The camera is slow to respond to the request at the highest resolution and fps. If the camera fails to add at the lower resolution please try to re-add again. Please change the volume on the camera web page. Please change the bit rate option on the Camera web page. Please contact support. This is because the camera is partly added to the VideoEdge (usually if a high resolution was set and the camera did not respond) the camera can be seen in the database but not on the VideoEdge please use the remove camera script and re add with a lower fps. This are not supported and do not work.

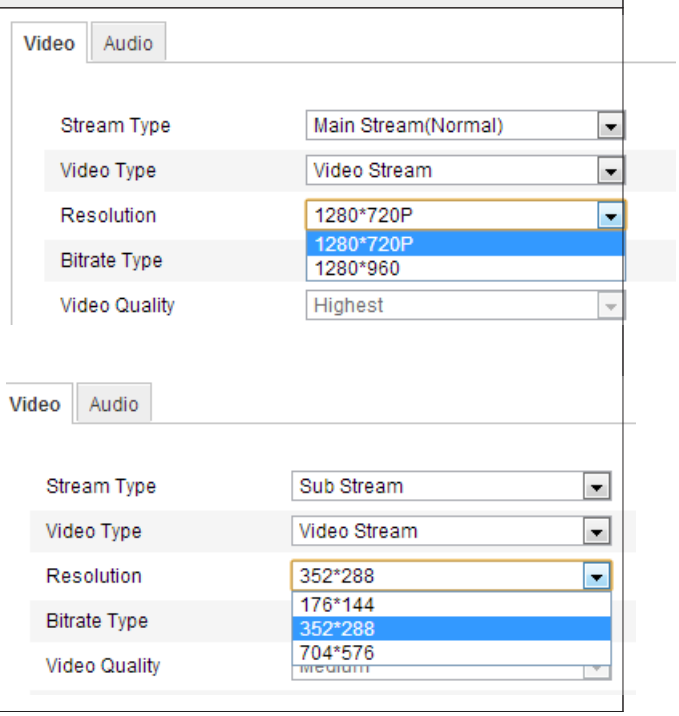
Hikvision

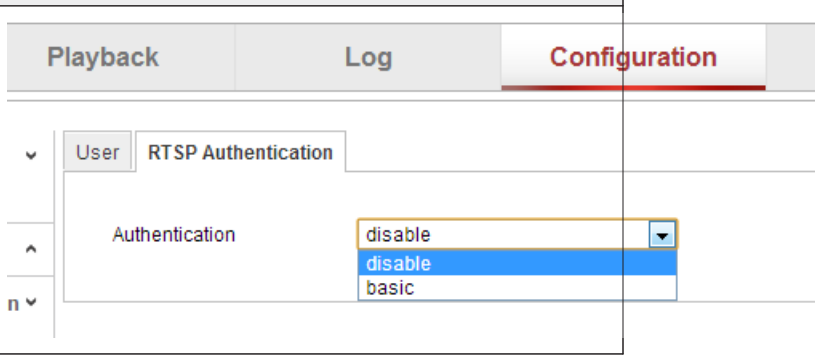
Manufacturer	Known Issue	Workaround
Hikvision (Camera limitation)	Adding the camera using ONVIF requires the following authentication changes to be made. Security Service - Uncheck "Enable Illegal Login Lock" Authentication must be on Digest Navigate to Network Advanced All boxes must be checked Authentication must be set on this page to digest/basic. Another User must be created on this page. This is the user that will be used to add the camera to VideoEdge.	

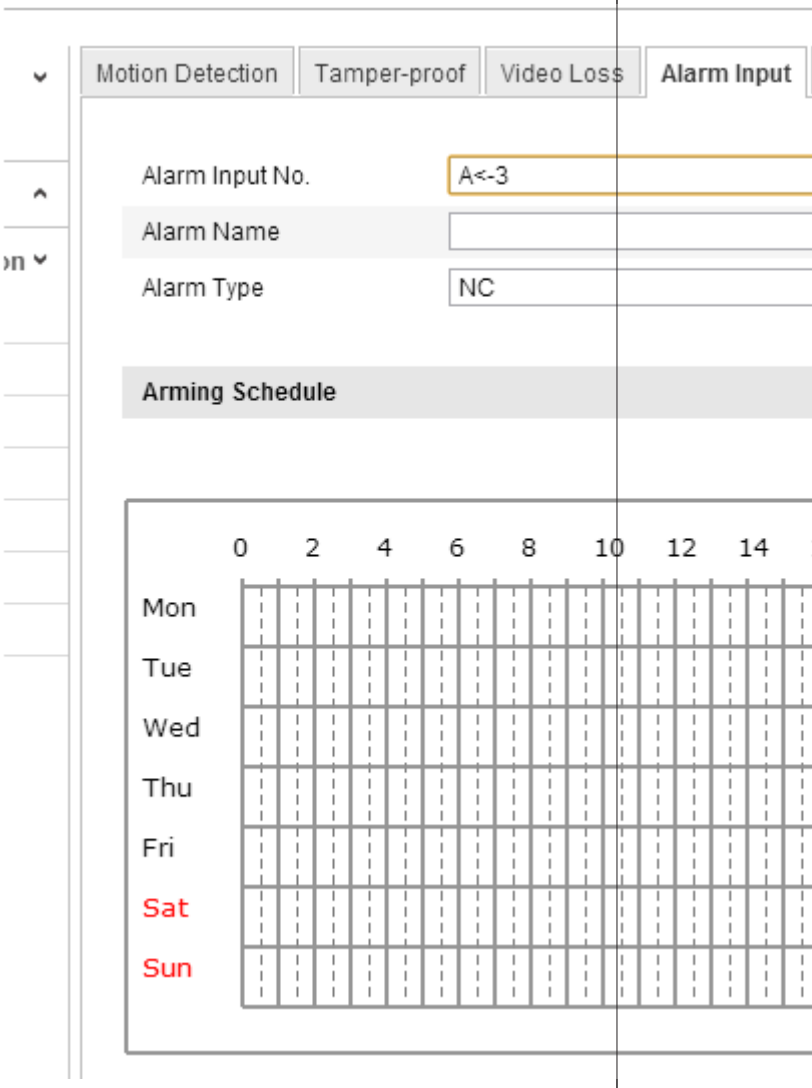
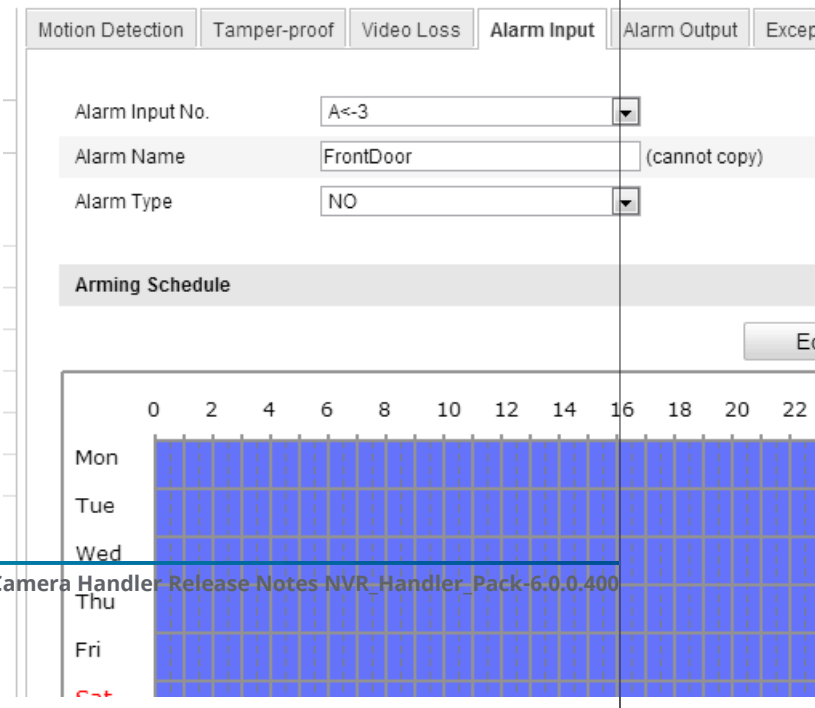
Appendix

This section outlines the specific configuration steps required for one particular camera i.e. the HikVision Speed dome camera.

Camera feature	Pre-configure camera settings
Video Streaming By default the video stream is multiplexed with audio – this must be set to Video only	
Codecs Primary stream advertises support for H.264 and MPEG4 but in practice only seems to support H.264 Secondary stream codec must be MJPEG - change requires a unit reboot	

Camera feature	Pre-configure camera settings
Resolutions For H.264 codec: Primary stream supports 2 largest resolutions Secondary stream supports 3 smallest resolutions An ONVIF request for resolution list for H.264 will return all the resolutions. The user should be aware that the primary stream can only support the 2 large largest resolutions and similarly for the secondary stream	

Camera feature	Pre-configure camera settings
RTSP Authentication Must disable RTSP authentication NOTE doesn't affect the WS-Username authentication	

Camera feature	Pre-configure camera settings
RTSP Authentication Must disable RTSP authentication NOTE doesn't affect tDry Contacts Must configure the dry contact: State = NC (Normally Closed) or NO (Normally Opened) Configure the times when the sensor is active Reboot the unit to take effect	BEFORE  AFTER 

SightLogix ONVIF setup

Table 47: SightLogix HD236-220

Device model	Notes
SightLogix HD236-220	Supported on VideoEdge v5.9.0 and higher. Ensure the latest version of the VideoEdge Handler Pack is installed for your version of VideoEdge.

Adding SightLogix HD236-220 Video Inputs to VideoEdge using ONVIF

Before you begin:
make sure the SightLogix camera and VideoEdge NVR are synced to an NTP server

1. Log on to the VideoEdge Admin GUI
2. From the **Devices** panel select **List**.
3. Click the **Add** icon.
4. From the **add device** dialog, complete the input fields:
   a. Enter a **Device name**.
   b. In the **Device address** field, enter the device IP address.
   c. In the **Maufacturer** field, enter ONVIF.
   d. From the **Security group** dropdown select SL Security Defaults.
   e. In additional settings section, enter the following fields:
      - In **Device type** enter camera.
      - In the **Autoconfiguration Streams** field enter Additional Live Streams.
      - In the **Slot** field enter Auto.
5. Click the **Save** icon.
6. **Optional:** From the VideoEdge Web User Interface, from **Advanced**>**Stream Statistics** verify the video stream .

Add SightLogix IO Inputs to VideoEdge

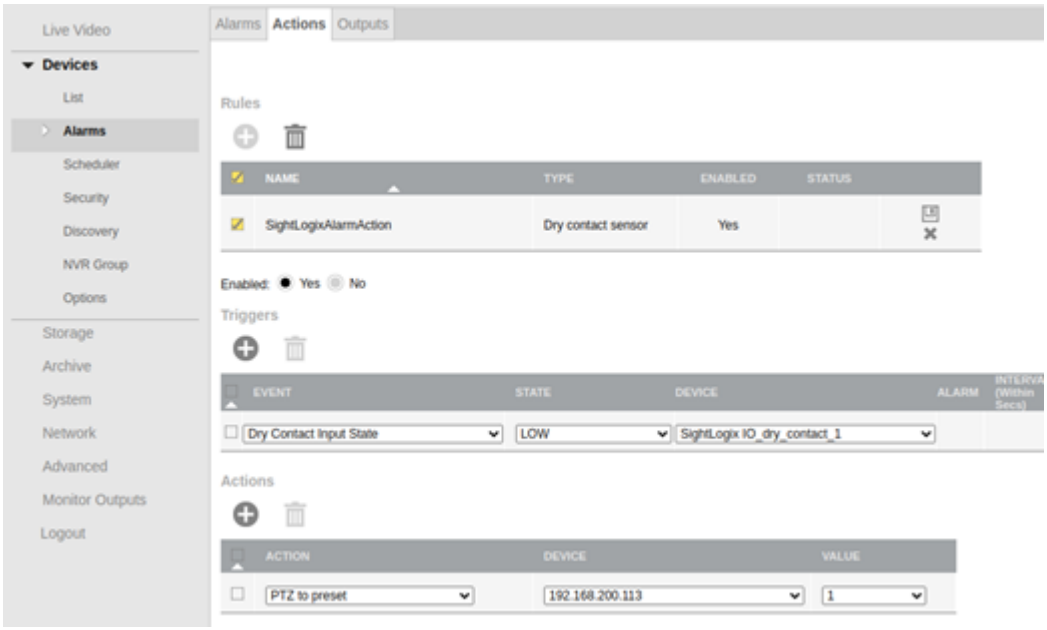
1. From the **Devices** menu select **List** > **IO List**
2. Click the **Add** icon.
3. From the **Add relay/Dry contact device** window, in the **IO Device name** field, add the Device name.
4. In the **IP Address** field, enter the IP address.
5. Uncheck the Enable ONVIF checkbox.
6. In the **Security Group** dropdown, select a VideoEdge security group that specifies a user with Administrative Access.

   ⓘ **Note:** The SightLogix camera web UI allows the user to set the Administrative Access username and password to match the ONVIF user credentials, therefore one VideoEdge security group may be used for the camera's video and IO inputs.
7. From the **Select interfaces to add** window, select IO devices by checking the type box next to each IP address and for each IO device, optionally select a camera association from the dropdown.

Configuring alarms: triggers, rules and actions

Before you begin:
On the camera's Web UI, from the **Device**page, configure SightLogix HD236-220 camera's Relay Out Mode to Alarm.

1. From **Devices** panel, select **Alarms** > **Actions**
2. Click the **Add** icon and in the **Trigger Event and Action** tables, from the dropdown menu, configure the alarm.



> **Note:** When an alarm is fully configured, the **Rules** table status column should display a green indicator.

3. Optional: to confirm that the alarm rule is functioning as expected, log on to the SightLogix HD236-220 Web UI, navigate to the **Device** page and use the **Alarm Test** feature to trigger an alarm.
   For more information on configuring events on VideoEdge, refer to the *VideoEdge Installation and User Guide* for the version of VideoEdge you have installed.
   For information on configuration of events on VideoEdge via victor VMS (Video Management System), refer to the latest version of the victor client manual relating to your version of victor.

> **Note:** VideoEdge's ONVIF device handler will be enhanced to support receiving video motion alerts /motion alarms from SightLogix devices. This documentation will be updated once the support has been added and re-tested with the SightLogix HD236-220.

Panasonic Corp

Supported key functions

- Video Streaming – Single and Dual (R)
- Audio Streaming – Audio codec supported depending on the camera.
- PTZ – Applies to cameras that have mechanical Pan and Tilt and Optical Zoom.
- Events (Dry Contacts, Edge Motion, and edge Face detection)
- Metadata (Edge Motion and Edge Face)
- Query Device

- Reboot Device

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: 12345

Supported camera API and models

Model	Minimum Camera Firmware Version
SF438	2.47
SFN480	2.54
S2131	1.46
SW598A	2.54
GXE500 (Encoder)	1.36
SW559/SF549/SF539/SP509 SW558/SF548/SF538/SP508	1.30
SC386/SC396/SC384/SC385/SW395 SW316/SW316L SP334/SP304/SW314/SW155/SW152 SF332/SF335/SF336/SF342/SF346 SP302/SP305/SP306/SW352/SW355 SP102/SP105/SF135/SF132 ST162/SW172/ST165/SW174W/SW175 NW484/NW502S/NP502	1.66
NW960/NW964/NS950/NS954	1.64E (Discontinued Models)
NP304/NF302/NP244/NF284	1.64 (Discontinued Models)
NS202/NS202A	2.74P0 (Discontinued Models)
Generic Fixed - for all unlisted Panasonic IP Fixed Cameras	N/A

Note: The Panasonic camera handler supports Generic camera for those unlisted models. If one camera is not in the supported list but compatible with the Panasonic CGI interface "External interface specifications of Panasonic WV-Series Network Camera Ver.1.35", it can be supported as a Generic camera.

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Audio/Video stream feature

The specific Video stream feature characteristics by model families are:

Model	Video stream feature
GXE500 SF332, SF335, SF336, SF342, SF346, SP302, SP305, SP306, SW352, SW355, NW502S, NP502, SW316, SW316L, SP334, SP304, SW314, SC386, SC396, SC384, SC385, SW395	Dual stream When camera is in H.264 mode, H.264 + H.264 H.264 + MJPEG When camera is in MPEG4 mode, MPEG4 + MPEG4 MPEG4 + MJPEG
SW559, SF549, SF539, SP509, SW558, SF548, SF538, SP508, SW155, SW152, SF135, SF132, ST162, SW172, ST165, SW174W, SW175, SP102, SP105	Dual stream: H.264 + H.264 H.264 + MJPEG
NW484, NW960, NW964, NS950, NS954, NP304, NF302, NP244, NF284, NS202, NS202A	Single stream: MPEG4 or MJPEG
Generic	Single stream: H.264 or MPEG4 or MJPEG (Depends on camera capability)

Note:

- Changing the resolution/bitrate/quality/fps settings of the current codec will restart the codec and will affect all the video streams from this camera.
- Video quality settings for MJPEG ranges from 0 - 9, while for MPEG4, camera has low, normal and fine. Normalized values in the VideoEdge for the same is 0 - 100, this makes the increment step for MJPEG being 10 and that of MPEG4 being 50.
- Video quality and bit rate control settings for H.264 must be done via the camera web page.

The specific Audio Stream feature characteristics by model families are:

Model	Audio stream feature
GXE500 SW559, SF549, SF539, SP509, SC386, SC396, SW316, W316L,SP334, SP304, SW314, ST162, SW172, ST165, SW174W, SW175, NW502S, NP502, NW960, NW964, NS950,NS954, SF332, SF335, SF336, SF342, SF346, SP302, SP305, SP306, SW352, SW355, NP304, NF302, NP244, NF284, NS202, NS202A, SC384,SC385, SW395	G726
SW558, SF548, SF538, SP508, SW155, SW152, SF135, SF132, NW484, SP102, SP105	No Audio
Generic	Depends on camera capability

Note: The creation/deletion/modification of audio streams does not affect previously created video streams

Event stream feature

HTTP Server push functionality available in Panasonic is used to efficiently obtain the dry contact event. The maximum number of dry contact events supported by each camera family:

Model	Max No. of dry Contact supported
NW484, SF332, SF335, SF336, SF342, SF346, SP302, SP305, SP306, SW352, SW355, NP304, NF302, NS202, NS202A, NP244, NF284, SW316, SW316L, SP334, SP304, SW314, ST162, SW172, ST165, SW174W, SW175,	1
NW502S, NP502, NW960, NW964, NS950, NS954, SC384, SC385, SW395, GXE500, SW559, SF549, SF539, SP509, SW558, SF548, SF538, SP508, SC386, SC396	3
SP102, SP105, SW155, SW152, SF135, SF132	0
Generic	Dynamically acquire from camera

Limitations

Model	Limitations
All	If no video is being recorded on H.264 for any Panasonic camera, please ensure multicasting on the camera webpage configuration page is turned OFF by navigating to Setup > Image/ Audio > Transmission type > Unicast port, only then will VideoEdge start to record the H.264 stream correctly. There can be no more than 5 connections to the camera including the web browser and VLC etc. Please ensure all camera web page connections are closed to get the best performance and streaming results. Due to a camera limitation the fps of the MJPEG is no greater than 5fps. If you require the MJPEG stream to have a higher fps than 5, please disable all H.264 streams from the camera web page. Only one pattern can be set on victor Client (for example camera WV-SW598A and may apply to all other PTZ cameras). This is a camera limitation as the camera(s) can only support one pattern. For All fisheye models if the capture mode requires 2 channels, the fps will reach a maximum of 15 fps. This is a camera limitation and outlined in the camera manual. When changing the audio volume on the SW598A,SF438 and SFN480 the VideoEdge does not display the new saved value, but displays the old value however the volume has been changed. Some cameras cannot reach higher than 15fps for the MJPEG stream. Even if H.264 is disabled on the camera web interface. This is a camera limitation. The model prefix of every Panasonic camera is irrelevant when it is added to the VideoEdge. For example, a Japanese model "DG-SC385" is expected to have the same characteristics as the world wide model "WV-SC385". Fractional frame rate settings are not supported by the VideoEdge. VideoEdge admin webpage allows the Sharpness/Brightness/Saturation (under Image Settings, Video Properties) to be changed. If the value is changed and saved then the new displayed value may slightly differ from the value that was saved. That slight difference is expected behavior. The difference is due to the conversion of a 0 to 100 value to a different range value that is actually stored on the camera. For example, the actual sharpness (or aperture) range on the camera could be 0 to 31 or 0 to 63. As cache mechanisms have been used to cache

Model	Limitations
NW502S, NP502, SP334, SP304, SW314, SC386, SC396, SC384, SC385, SW395,SW559, SF549, SF539, SP509, SW558, SF548, SF538, SP508, SW155, SW152, SF135, SF132, ST162, SW172, ST165, SW174W, SW175, SW316,SW316L	When Wide Dynamic Range is enabled (under Image Settings, Lens/Sensor properties), these camera models have a defined limitation that Back Light Compensation (under Image Settings, Video Properties) is not available. These camera models will display Back Light Compensation as read only setting "0".
GXE500, SF332, SF335, SF336, SF342, SF346, SP302, SP305, SP306, SW352, SW355, NW502S, NP502, SW316, SW316L, SP334, SP304, SW314, SC386, SC396, SC384, SC385, SW395,SW559, SF549, SF539, SP509, SW558, SF548, SF538, SP508, SW155, SW152, SF135, SF132, ST162, SW172, ST165, SW174W, SW175, SP102, SP105	The camera models which can support either H.264 with MJPEG or support MPEG-4 with MJPEG must be switched between those modes using the camera direct web interface. Note that with certain models, an audio stream occurs as part of either an H.264 or MPEG-4 stream, The audio stream will fail if the video-stream format is switched off. It is best to settle on a video encoding format before the camera is added to the VideoEdge. Due to the performance limitation of the multi-codec models which can support MJPEG with either H.264 or MPEG-4, while streaming MJPEG with H.264 or MPEG-4 simultaneously, the camera might not deliver the requested frame rate. Please refer to the Panasonic product catalog for details.
SW355	A change in the audio bit-rate can take a long time for a response on the WV-SW355 (and perhaps other models) for unknown reasons. The bit-rate change request can be successful in which case the audio configuration page for the camera will display after 10-12 seconds displaying updated bit rate value. Bit rate changes may not be successful due to various timing constraints. In this case there would be an error message - “Failure to set Bitrate = XX for audio input”. (Whereby XX = 16 or 32) Further error messages: “Device handler internal error” or “No VE Text response after waiting 5000 milliseconds” may display
SC386,SC396, SC384, SC385, SW395, NS202, NS202A, NW960, NW964, NS950, NS954	Some cameras have an Auto-Focus function that can be triggered, such as the SC386, using the Image Settings Lens/Sensor properties web-page. The Auto-Focus check box does not show the current auto-focus status and will always appear as unchecked; the check box can just be used as a button to trigger one time auto focus.

Model	Limitations
SW559, SF549, SF539, SP509, SC386, SC396, SW316, W316L,SP334, SP304, ST165, SW174W, SW175, NW502S, NP502, SF335, SF336, SF346, SP305, SP306, SW352, SW355, SC384,SC385, SW395, SW558, SF548, SF538, SP508, SW155, SF135, SP105	For some cameras whose highest MJPEG resolution is 1280x960 or higher, when using MJPEG if a high quality setting is used while using the highest resolution, it results in streaming at a very high bit rate. This results in problems with Quick time playing out the stream, as there is limitation of playback of streams with high bit rate. However VLC seems to play it out normally. Solution is to use lower quality settings or enabling the Traffic Smoothing in VideoEdge Dynamic Bandwidth page.
WV-NS950, WV-NF284 and NW964	Due to the camera limitation, the bitrate for these models does not update on camera's web interface after changed on VideoEdge.
SF342, NW960, NW964, NS950, NS954	Due to the camera limitation, the quality of MPEG4 can't be changed. Changing of MPEG4 quality from VideoEdge web page will not take effect and the quality value will always be 50.
Generic	Generic camera handler provides video (single stream only), audio and events. No PTZ functions are supported.

ⓘ **Note:** Please refer to Panasonic cameras release notes published on the Panasonic website for more information about Panasonic cameras and limitations.

Known issues

Model	Known issues
All	For the models that support both of H.264 and MPEG-4 codecs, they can't support these codec simultaneously. The real currently supported codec needs to be explicitly set at the camera. If audio bit rate is modified while streaming live in victor client, live audio may become corrupt; re-adding the camera to the live view pane will fix this issue. On victor client you may rarely experience that the screen will be black once you exit form instant play back this may happen if you change the resolution on the VideoEdge while in instant playback If the camera supports PTZ then there will be no relative focus or iris supported Dual streaming of MJPEG stream is unsupported for all camera models If adding any of the fisheye models with the Quad and xxx + xxx image capture mode please clear the “Enable Smart Search” check box. If this is selected it may take the camera longer to add and the VideoEdge webpage may become unresponsive for a period of time. It is suggested that you clear the “Enable Smart Search” check box for all fisheye models with all image capture mode When using the 3M image capture mode for all cameras which support this option, for example on the WV-SF438 camera, MJPEG is not supported as the only resolution available is higher than what is supported on the VideoEdge. Fraction frame rate are not supported by the VideoEdge so any fraction fps values shown on the camera are not displayed on the fps drop down list. Bit rate values 64 and 128 are not displayed on the VideoEdge drop down list with a lot of cameras G726 audio recording is not supported G726 audio is not recommended. Bit rate setting do not save if changed on the VideoEdge please use the Camera webpage. When the bitrate is set to 256, the camera will fail to stream on Victor.

Model	Known issues
NW484, NW960, NW964, NS950, NS954, NP304, NF302, NP244, NF284, NS202, NS202A	By default, the MPEG-4 capability is turned off programmatically. This will effectively disabled the audio capability, since the Panasonic handler utilizes MPEG-4 stream for audio streaming. MJPEG frame rate can be reduced if customer manually enables the MPEG-4 capability directly through the camera's web interface.
NW502S, NP502	Max frame rate for dual streaming is 15fps for VGA and 10 fps for QVGA. For single video stream, when the resolution is 1.3 mega pixels, the maximum frame rate for H.264 is 30fps. When the resolution is 3 mega pixels, the maximum frame rate for H.264 is 15fps
SF332, SF335, SF336, SW352, SW355, SP302, SP305, SP306, SF342, SF346, SP102, SP105, NP304, NF302, NP244, NF284, SW559, ST162, ST165	These cameras support two aspect ratios 4:3 & 16:9. MPEG-4 is not available when 16:9 is selected When either H.264 or MPEG-4 transmission is set to On, the maximum frame rate for MJPEG is 5fps
NP304, NF302, NP244, NF284	It is not recommended to use audio with these models, due to the camera limitation on the number of RTSP session. Using audio might result in losing live video. At very low frame-rate settings for MPEG-4, i.e. 1fps - 3 fps it has been observed that the actual frame-rate is much lower, between 0.5 fps - 1.5 fps. It is recommended to use higher frame-rate settings in these models.
SC384, SC385, SW395, SC386, SW396	In order to enable all four patterns, user needs to change the pattern setup by camera's web interface, otherwise only part of the patterns can be used.

Model	Known issues
NP244, NF284, NS202A, NW484, NS954, NW964, NF302, NP304	In MPEG-4 mode, while streaming at more than 2048 Kbps these camera models only support 1 effective stream in RTSP (Documented in "Function list of camera_encoder.pdf" from Panasonic or Section 8.1 in "CGI Common Ref Panasonic_Network_camera ver1.35.pdf"). Any access to the camera's web interface while using the camera in VideoEdge might result in an error message "Too many concurrent session" displayed on the camera's web interface. This shall result in display of blue screen instead of the actual video. Selection of MJPEG in the camera's web interface should restore the video. Because the audio stream is also attached with video stream, the audio may be always inaccessible in this case.
NW960, NW964, NS950, NS954	Due to a Camera limitation, Patterns cannot be canceled during its set up phase. The "X" button is recommended not to be used in this case and the user should instead use the Stop button. If the user does click on the "X" button, the user should wait till the counter counts down to zero. The user can then add the pattern again using the start and stop buttons Due to camera limitation, the pattern learning process cannot be canceled and stopped during adding a pattern via victor client. User can do subsequent pattern operations until the learning process completed.
NW964	It has been rarely observed that the camera may reboot, when creating/editing a preset or pattern operation with victor client. Due to the camera limitation on its API, the active statuses of the second and third dry contact are not available. They are just showed as "NA" on the VideoEdge web page.
ST162, ST165	In victor client, if user does a quick nudge of the pan/tilt button, the pan/tilt will keep on moving until it reaches its axis limited During PTZ control on the ST165 the motor will cause a lot of noise via the internal mic, The audio output will be muted automatically by the camera at that time. User can either use the external mic and/or disable this muting feature via camera web page. Refer to the camera operation manual for the details.

Model	Known issues
SF132, ST152, SC385	It has been rarely observed that there may be 5 seconds of video loss on the MJPEG stream of these cameras due to the camera firmware issue.
SF132	Due to the camera limitation, the Back Light Compensation setting will automatically become 0 after changing the Wide Dynamic Range.
SW314	In rare cases SW314 PTZ details page on VideoEdge Administration interface may wrongly display the "Enable PTZ" button. After refreshing the page, the button will disappear.

Model	Known issues
GXE500	This camera will only support one stream configuration for these codec across all streams. It means that changing the stream configuration of any one channel will affect all channels. If the dual stream of H.264 or MPEG4 is enabled, changing one stream configuration will affect another. This encoder will only support a single audio stream which out handler will associate with the first channel. Due to performance limitation, Panasonic limits the stream by number and bandwidth, to avoid stream loss it is recommended to lower the codec bitrate on the camera web interface Though the encoder supports 256 presets, only 255 presets can be set by victor client this is a victor client issue to do with the video overlay. Due to the slow response from the camera, the active status of some of the dry contacts will appear as "NA" on the VideoEdge web page. If the web page is refreshed then the normal status will show. Encoder firmware v1.36 does not support Pelco-P protocol. Therefore it is recommended to upgrade to encoder firmware v1.40 which support Pelco-P protocol. The default Pan/Tilt speed Panasonic provided in the Pelco-D protocol file for GXE500 is relatively slow. It is recommended to change the speed in the protocol file before uploading the file into Encoder. Please refer to the Panasonic GXE500 Installation Guide for details.
SF342 NW960 NW964 NS950 NS954	Due to the camera limitation, the quality of MPEG4 is always ‘Normal’ and can’t be changed. So changing of MPEG4 quality from VideoEdge web page will not take effect and the quality value will always be 50.

Special points

The handler will ignore the model prefix of every camera. So for example, "WV-SC385" and "DG-SC385" will be regarded as the same camera with same features. Currently four prefixes have been seen for Panasonic cameras, they are WV/DG/WJ/BB.

It is recommended when the camera is added to the VideoEdge, not to change any property parameters on the camera's web interface (unless specified on the release notes)

When a camera is added, the default video codec will be H.264 if it is supported by the camera and selected as the Video encoding format on the camera-direct web-page. If not, then MJPEG will be used to establish the first video stream. If not, MPEG-4 will be used if it is available.

For the cameras that support pattern, the supported pattern count is based on configuration of the camera which might be 1, 2 or 4.

For those cameras that support image white-balance, the option supports 3 settings, namely

“1” - Automatic white balance control mode. (AWC)

“2” - Automatic tracing white balance mode.(ATW1)

“3” - Automatic tracing white balance mode under a sodium lamp.(ATW2)

Some Video Properties like Brightness/Saturation/Sharpness are normalized to percentage (0-100), but the real value in camera is range from nCameraMin to nCameraMax which result in the values in VideoEdge not covering all values in Camera.

For edge motion and metadata function the user should first turn it on from the cameras webpage, then add the camera to VideoEdge.

When enabling edge metadata please enable the “additional Information” check box on the VMD setup screen of the camera webpage.

Customer should contact Panasonic to add an application for the face detection. Please refer to the camera’s manual.

Pelco

Supported key functions

- Video Streaming - Single and Dual
- Video Codec - H.264, MJPEG, MPEG4
- Audio Streaming
- Supported audio codec G711MU
- PTZ
- Dry Contact Events
- Query Device
- Edge device motion detection

Note:

- Whether above functions are all supported or not depends on the camera capabilities.
- The camera capabilities will be dynamically acquired from Pelco cameras.
- Pelco Handler will enable or disable some function based on the camera's capability feedback.
- Motion Metadata is not supported
- Relay output is not supported.

Required network ports

Port 80 is for HTTP

Port 554 is for RTSP

Note: Only basic HTTP authentication is supported. HTTPS is not supported.

Default username and password

- Username: admin
- Password: admin

Supported camera API and models

Model	Minimum camera firmware version
IM10LW-1	1.9.2.2-20130717-1.8270-O1.9926
S5118	1.9.1.0-20130523-1.9310-A1.9721
NET5401T	1.8.2.18-20121109-1.8270-O1.8503
IXE32	0.6.3.0.5
IME329	0.6.3.0.5
S6230	2.11.0.7.9340-A0.0
IMM12036	2.11.0.7.8360-A0.0
NET5504	2.1.9.2

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The specific Video stream feature characteristics by model families are:

Model family	Video stream feature
All models	Dual stream: H.264, MJPEG or MPEG4

Note:

- MPEG4 is not supported by many Pelco devices.
- The actual codecs supported will be dependent on the camera

Audio stream feature

The specific Audio stream feature characteristics by model families are:

Model family	Audio stream feature
All models	G711mulaw

Note:

- Pelco camera’s audio stream is mixed with video stream, handler demux audio stream from “Video Stream 1”.
- For some Pelco cameras, they support audio on their web GUI, but don’t supply Audio in the API, so handler doesn’t support audio.

Event stream feature

The handler uses UPNP GENA to get the dry contact status. GENA can be understood as one kind of HTTP pushing mode. The maximum number of dry contact events supported by each camera family:

Model family	Max number of dry contact supported
All models	Dynamically acquire from camera

Special points

When the camera is added to VideoEdge, it is recommended not to change settings via the camera's web interface, especially video and audio settings, because the changes may need to reboot the video codec and this will affect the VideoEdge.

Pelco handler will support Edge device Motion Detection Event and Alarm input directly from the camera.

User need to enable Edge based motion detection on camera Web GUI before enabling on VideoEdge.

User need to ensure that at least one alarm input is configured for use on the camera's web interface.

Camera Audio and Dry Contact will need enabled on the camera prior to enabling these on the VideoEdge, as the handler cannot directly enable these features.

On the VideoEdge "Function & Streams" page, Stream 1 is associated to camera's "primary Stream" profile; Stream 2 is associated to camera's "secondary stream" profile.

The Pelco camera web interface does not use the Pelco API to set its values. This means that some settings will be different between the camera web interface and VideoEdge, especially when dealing with MJPEG.

Limitations

The limitations listed apply to all models.

Video standard change is not supported. TV format returns PAL, even if the camera is configured for NTSC. This is a known issue of Pelco camera firmware.Reason: Camera limitation.

Bitrate value displaying on VideoEdge may be different from the camera's web interface.Reason: Pelco API limitation. Work around: None

Quality is not supported for H.264 or MJPEG for any cameras on VideoEdge.Reason: VideoEdge limitation conflict with Pelco camera limitation. VideoEdge support quality for MJPEG codec while Pelco support quality of service for H.264.Work around: Use camera WEB GUI

White Balance, Back Light Compensation, WDR, and Day/Night mode cannot be modified via the APIReason: Camera limitation.Work around: Use camera WEB GUI

PTZ Pattern is not supportedReason: Camera limitation

Audio PCMA not supportedReason: Camera limitation.

Audio Codec can't set or change.Reason: Camera limitation.

D5118] Sometimes focus function of camera stops working unless factory default.Reason: Camera LimitationWork around: Camera factory default

Sometimes, VideoEdge page pop up hint "Could not update the camera video properties”Reason: Camera response is slow.Work around: Refresh VideoEdge webpage.

Sharpness is not supported. This may be different with the camera's web interface.Reason: Pelco API limitation.

Sometimes cameras cannot be found in discovered device list after auto-discovery.Reason: Slow camera response and VideoEdge can only wait for 5 seconds.Work around: Check the network environment and retry again.

[IM10LW-1] To enable edge-based motion, it is recommended to set the fps less than 30 and resolution less than 640 x 352. Once edge-based motion is enabled, if the user wish to go back to 720p the fps needs to be set to 12fps click "Apply" and change the resolution to 720p.Reason: Camera limitation.

[IXE32, IME329] Setting bitrate on these models will produce a result negated by 1 For example, setting CBR = 9010kbps will save as 9009kbps.Reason: Camera limitation.

[IXE32, IME329] Camera configurations should be set-up properly on the camera web interface in order to retrieve Dry Contact alerts in VideoEdge. To enable this a user must set an alarm under Events > Sources and set-up a handler in Events > Handlers.

[IMM12036] This camera does not support MJPEG on VideoEdge due to a RTP header limitation, so it is recommended to add this camera without Smart SearchReason: VideoEdge limitation

[IME329] MJPEG fps value cannot be set through VideoEdge, this is a camera firmware problemReason: Camera limitation.Work around: Change the MJPEG fps value on the camera web interface

Known issues

Edge motion detection will stop working when the camera's PTZ options are usedReason: Camera LimitationWorkaround: PTZ to your desired image and then enable edge motion detection

Hanwha / Samsung

Supported key functions

Video Streaming - Single and Dual

Video Codec - H.264, MJPEG, and MPEG4

Video Codec – H.264, MJPEG for P, Q, and X series

Audio Streaming

Supports audio codec G.711 ulaw

PTZ

Dry Contact Events

Query Device

Edge Device Motion Detection and face detection

Required network ports

- Port 80 for HTTP
- Port 554 for RTSP

Default username and password

- Username: admin
- Password: 4321

Supported camera API and models

Model	Latest Official F/W
SNB-5000/A	snb5000_Series_3.10_130416
SND-5080/F	
SNV-5080	
SNV-5010	snv5010_3.10_130416
SNO-5080R	sno5080r_3.10_130416
SNV-5080R	

Model	Latest Official F/W
SNB-7000	snb7000_Series_2.10_130416
SND-7080/F	
SNV-7080	
SNO-7080R	snv_sno7080R_2.10_130416
SNV-7080R	
SNB-3002	snb3002_Series_2.20_130812
SND-3082/F	
SNV-3082	
SNB-5001	snb5001_series_1.20_130813
SND-5011	
SND-5061	
SND-5010	
SNB-7001	snb7001_series_1.21_131002
SND-7011	
SND-7061	
SNB-7002	snb7002_series_1.21_131002
SND-7082/F	
SNV-7082	
SNO-7082R	
SNB-6004	snb6004_Series_2.21_131008
SNB-6003	
SND-6084	
SND-6083	
SND-6084R	
SNV-6084R	
SNO-6084R	
SNV-6084	snv6012m_snv6084_1.11_131011
SNB-5004	snb5004_Series_1.12_131031
SNB-5003	
SND-5084	
SND-5083	
SNV-5084	
SNO-6011R	sno_snd_6011r_1.11_131011
SND-6011R	
SNV-6012M	snv6012m_snv6084_1.11_131011
SNF-7010	snf7010_Series_1.00_130806
SNF-7010V	No official release
SNP-3120/V/VH	fw_SNP3120_1.29_130107
SNV-3120	fw_SNV3120_INT_1.24_110816

Model	Latest Official F/W
SNP-3371/H/TH	snp3371_snp3302_2.20_130930
SNP-3302/H	
SNP-5200/H	snp5200_snz5200_2.10_130523
SNZ-5200	snz5200_2.11_130816
SNP-6200/H	snp6200_1.20_130930
SNP-5300/H	snp5300_1.20_130930
SNP-6201/H	snp6201_1.01_131002
SNP-6200RH	snp6200rh_1.11_131002
SPE-100	SPE-100_400_101_v2.30_130820
SPE-400/B	
SPE-101	
PNM-9081VQ	1.01_170904
PNP-9200RH	1.03_170531
SNB-5000	3.10_130416
XNB-6001	1.12_180124
XNF-8010R	1.14_180417

Note: The Samsung camera handler supports Generic camera for those unlisted models. If one camera is not in the supported list but compatible with the Samsung CGI interface "STW_Network_Device_EN_v2.8.3_ALL_FINAL", it can be supported as a Generic camera. The Samsung camera handler Include 4 Series :S,P, Q & X series. S series is compatible with the Samsung CGI interface “STW_Network_Device_EN_v2.8.3_ALL_FINAL” P & Q & X is compatible with the Samsung CGI interface“SUNAPI2.0_EN_v2.5.1”

RTSP URL

Video and audio streamrtsp://<username>:<password>@<ip>:<port>/profile<profile no>/media.smp

• Samsung camera's audio stream is mixed with video stream, handler demux audio stream from video stream profile 2.• <username>: user name, default value is admin• <password> :Password, default value is 4321• <ip> : IP address of the camera• <port> : RTSP port number, default value is 554• <profile no> : profile no number. 1 - MJPEG; 2 - H.264; 3 - MPEG4

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number.

Video stream feature

The following table shows the video stream feature characteristics for each model family.

Model family	Video stream feature
All models	Single stream and dual stream: H.264 + MJPEG, H.264 + MPEG4, MJPEG + MPEG4 (Some devices aren't able to provide MPEG4)
P, Q, and X series models	H.264 + MJPEG
Generic	Single stream and dual stream: H.264 + MJPEG, H.264 + MPEG4, MJPEG + MPEG4 (Some devices aren't able to provide MPEG4)

Audio stream feature

The following table shows the audio stream feature characteristics for each model family.

Model family	Audio stream feature
All models	G.711 ulaw if applicable
Generic	G.711 ulaw if applicable

ⓘ **Note:** The Samsung camera's audio stream is mixed with the video stream. The handler will extract the audio stream from video stream profile 2.

Event stream feature

The handler uses HTTP polling mode to get the dry contact status. The following table shows the maximum number of dry contact events supported by each camera family.

Model family	Event stream feature
All models	Dynamically acquire from camera
Generic	Dynamically acquire from camera

Special points

- If added to a VideoEdge, we recommend not modifying the camera outside of the VideoEdge, or the VideoEdge may not work properly.
- As confirmed by Samsung, F/W upgrade/downgrade problems happen frequently with SNP-3120 series. Please use the Supported Firmware Version only, and take care when upgrading /downgrading camera of SNP-3120 series. Downgrading to 1.22_110120_1 firmware also resets the camera to default IP.
- For some Samsung cameras, the MJPEG fps range is 1-5, the user should make sure the MJPEG fps on VideoEdge Administration interface is the same as that on the camera's web GUI.

Limitations

Model	Limitations	Workaround
All	There is a limitation set on all Hanwha camera models by default, that limits the fps on the MJPEG stream to MAX 5. We do not recommend using both Edge face detection and Edge motion detection in the same instance. Otherwise you will not receive any motion detection alerts. This is a camera firmware issue. Interface 'CameraName' is not supported as the camera has no CGI command for this interface. The SND 3080, SNP 3120, SNB 3002 are fixed PAL / NTSC. For other cameras there is a setting for changing PAL/NTSC on the Camera webpage but this only changes the analog output. Samsung cameras have no CGI command for getting autofocus status, and only a few cameras support setting it to on. The handler does not support autofocus property. Samsung cameras do not directly support video codec quality, but use compression rate on the MJPEG stream for this purpose. A high level of compression equals a low level of quality. The cameras' valid compression value range is 1-20. VideoEdge reverse converts it to 5-100%. Quality is not supported for H.264 or MJPEG4 for any cameras. SND-3080 does not support MJPEG stream compression. The camera's web page has a quality setting, but there is no specified API. So, the handler will not support MJPEG stream quality for this camera. Do not change the camera's video profile settings on the Camera web page when the camera is added to VideoEdge. Otherwise changing fps, resolution, bitrate or creating video stream may fail. Also after the camera is added into	Before adding camera to VideoEdge, disable the MJPEG profile's "email/FTP profile" by creating a new MJPEG profile and tick the email/FTP profile and record check boxes on the camera web page. This will allow the user to select all Frame Rates available. use only one Edge analytic at a time. N/A N/A N/A N/A If these setting need change please delete and re add the camera to VideoEdge. N/A N/A Reducing the fps on Stream 2 will increase the fps on Stream 1. This has been confirmed as a camera limitation by Samsung N/A Disable stream 2, and change codec of stream 1, before enabling dual stream again. N/A

Model	Limitations	Workaround
XNB-6001, XNF-8010R & their respective families	After a network cable pull or if the camera is disconnected/ powered down, Edge motion alerts may not work after the camera comes back online. No Edge motion alerts will be sent from the recorder to victor client.	Disable Edge Motion Detection on the VideoEdge and re-enable it.
XNF-8010R & respective families	There is a camera mount type option on VideoEdge, that causes video loss when modified. If more than 2 channels are used at 30 fps then there may be a drop displayed in fps for all channels as the camera has an aggregate of 60 fps for all channels used.	User must select the appropriate camera mount setting on the camera web page before adding the camera to VideoEdge. If you require 30 fps, only use two channels.
PNP-9200RH	Sometimes when PNP-9200RH is added to the VideoEdge, it adds with an fps of 5 and a resolution of 320 x 240. PTZ zoom speed is slow on the camera If you add the camera with smart search enabled, Motion Detection will not be automatically set up once the camera is added to VideoEdge. Workaround: Once the camera is added you can enable motion detection from the functions and streams page if required. The camera web GUI has a minimum bitrate of 1, however on VideoEdge the minimum bitrate is 2000.	Once the camera has been successfully added to VideoEdge, the user can change the fps and resolution to the desired values. N/A N/A If you require a bitrate lower than 2000, use the camera web GUI to configure it.
X-series	Current firmware version (1.01_170520) when the fps is set smaller than 6(H.264 stream) , the camera reverts back to the previous set fps. Dry-contact function . If the power has no AC 24V , Then the state of the dry contact can not be changed on the VideoEdge .	Next X-series firmware will solve it . User should make sure the AC 24 voltage is inserted .

Model	Limitations	Workaround
All Encoders	For Samsung encoders, each channel has an independent IP. To add an encoder to the VideoEdge, the user should add every channel one by one. For the encoders can provide audio-in, only the first channel supports audio. For the encoders can provide AlarmIn, each channel supports 1 AlarmIn	N/A
SNP-3120 series SNB-5200 series SNB-5000 series SNB-7000 series	On the VideoEdge functions and streams page, when making changes to the stream configuration and analytics, an error message saying “Could not update resource stream parameters, error returned from database.” This is a camera firmware issue due to this camera response being too slow. The changes are still made successfully.	N/A The changes are still applied and motion detection triggers.
SPE-410 Encoder	All Hanwha encoders running a firmware earlier than version 1.11 will not be able to use dry contacts. As they contain a bug in the hardware and firmware of the device which affects the dry contacts.	N/A
All devices only support an MJPEG stream of 6 FPS or less	The VideoEdge displays 7 FPS as an option in the MJPEG stream configuration section but the device does not support up to 7.	N/A
SNP-6200	There is a known limitation in the firmware of this camera whereby the fps cannot be set to lower than 4. Hanwha have confirmed that issue will no be fixed as there will be no more firmware releases for this camera	N/A

Model	Limitations	Workaround
PVM-9030V	There is an ongoing issue with this camera; when 25 FPS is selected, the camera is actually only streaming at 10 FPS.	N/A
PNM-9002VQ	It can take 8+ minutes to add the camera if there is an issue with any of the lenses, such as incorrect installation. If there is an issue, a red light displays on the camera.	Ensure that all 4 lenses are installed correctly before attempting to add a camera.

Known issues

Model	Known Issues	Work Around
All	Changing bitrate control form CBR to VBR may not work from VideoEdge. If the MJPEG resolution is set to the highest resolution when adding it the VideoEdge, it may result in an error appearing or the camera will only add with only one stream. If the scene is very noisy or busy it may result in bursts of video which may result in video loss. Otherwise setting resolutions from 1MP or higher for MJPEG, this may result in bursts of video which may result in video loss. Due to the slow response from the camera APIs some cameras may not add using HTTPS. When the resolution is lower than 800 x 600, the image's bottom edge may have a mosaic or color block. There seems to be duplicate Timestamps on VideoEdge, especially with a higher fps. This issue causes the VideoEdge to sometimes restart the video stream. At higher fps, the count of duplicate timestamps is increased. When the issue happens, VideoEdge log will report a [isLargeTimeChange] issue. The vendor confirmed they have found this issue. Live view latency is about 500ms (H.264, MJPEG, MPEG4). Video and audio are sometimes out of sync on Instant Playback and Search & Retrieve in victor. Changing property may fail to update correctly if the following operations are done together, before clicking [Apply] button: enable secondary stream, change the codec type to MJPEG, change the property (fps, resolution, etc). TPS107329, TPS109801, Most of Samsung camera's VPA properties' valid value are not set as a percentage. Therefore	Please make bitrate control changes from the camera web page. To reduce this issue please set the camera to a low resolution using the camera webpage and when adding to VideoEdge un-check the "Enable smart search (Motion metadata)" option. If the camera does not successfully add please try adding the camera to VideoEdge again. We recommend setting the MJPEG resolution to below 1MP To add the camera via HTTPs please use the following steps. Add camera via HTTP to VideoEdge > Change camera to HTTPS on camera webpage > Move camera on VideoEdge to a security group with the correct security setting Use a resolution other than 800 x 600. If this issue occurs reduce the fps. N/A. N/A. If this issue occurs, change the property again one at a time. For example SNB models, set brightness to any number that ends in 0 ,for example 50, 60, 70, the VideoEdge will display 51, 61, 71 instead. Please retry the operation. The workaround for this is to refresh the page once all the other cameras have been loaded. Once camera has resolved, navigating through different features of the camera will display "Server error" page. Clicking back or refreshing the browser is a workaround to this. Set the fps to a value higher than 3 . Will be fixed in future VideoEdge Release. Enable dual stream before enabling motion detection. Refreshing the general web

Model	Known Issues	Work Around
SNP-6200	The volume for the audio cannot be increased/decreased through the audio list on the VideoEdge Admin GUI.	Use the camera web GUI to increase or decrease the volume.
XNF-8010R	H.265 is not supported on this camera on VideoEdge.	N/A.
SNF-8010	Displays more fps option on the VideoEdge than is supported on the camera. These will fail to set and return to the previous value. Please reference the camera web interface or manual for supported fps settings. This is a camera limitation. After a cable pull or lost of power to the SNF-8010 the audio stream may not return.	N/A Please disabled and re enabled on the VideoEdge audio list.
SNZ-5200, SND-5080, SNP-3430H, SNP-5200, SNV-5010, SNZ-5200 SNP-5300	Cameras' valid resolutions may not list in min-max (image width) order. It is because the VideoEdge uses resolution index to communicate with the camera, and their resolutions may not ordered from min to max.	N/A
SND-3080, SND-7080	Although the key cameras in some groups (SND-3080, SND-7080) support brightness, some cameras covered by them do not support it, so the VideoEdge web image page will display the brightness property value as BLANK.	N/A
SPE series and SNB-3000 series	For SPE series and SNB-3000 series (for example, SND-3080), AlarmIn reacts very slowly. It can be up to 4 seconds from manually triggering AlarmIn pins before the camera reports the alarm.	N/A

Model	Known Issues	Work Around
SND-3080	For SND-3080, camera may report false alarms for both AlarmIns when setting active state for any AlarmIn. When the active state is set to HIGH, the camera randomly reports false alarm status, which will cause wrong alarms in VideoEdge.	N/A
SNV-5010SND-7080SND-3002SND-5080	If fps is too low, RTSP connects to camera may timeout and then the VideoEdge will have no video. The following cameras were found to have this issue: For SNV-5010 and SND-7080, the MJPEG video will not display when the user sets fps to 1 and resolution to less than 1280*720. For SND-3002 and SND-5080, the MPEG4 video will not display when the user sets fps to <=5.	N/A
SND-7080 SNB-5000 SND-5080 SND-5080F SNV-5080 SNV-5080R SNV-5010 SNO-5080R SNB-7000 SND-7080F SNV-7080 SNV-7080R SNP5200 SNO-7080R SNP-6002	These models give a blurry / melting screen on victor at 320 x 180, 640 x 480, 800 x 600, 800x450 and 1920x1080 resolutions on H.264 stream. This is a confirmed issue with Samsung due to a multi-slice algorithm which is not supported by the VideoEdge. Enabling a second stream or an audio stream fixes this. These models show an incorrect TimeStamp on victor when on single stream. This is also due to the multi-slice algorithm.	Try to enabling a second stream or an audio stream. N/A
SNP-3120	PTZ Controls will not work using 1.26_120402 firmware. This is a camera firmware bug.	Upgrade Firmware
SNP-5200	Quickly adding PTZ presets causes the SNP 5200 to auto zoom in.	N/A
SPE-400	When connecting to UD8 analog camera, Samsung encoder SPE-400 combined PTZ not working with keyboard control.	N/A

Model	Known Issues	Work Around
SND-7011, SND-7082 and SNB-7002, with fw 1.06-400	Some cameras (SND-7011, SND-7082 and SNB-7002, with fw 1.06) sometimes cannot correctly provide H.264 + MJPEG streams (streams keep restarting). When this issue happens, disable MJPEG's "FTP/ Email, Record" functions may fix this issue. After upgrade the fw to 1.20, the cameras can provide two streams, but with video freezes and the fps drops (Dual stream when H.264 with highest resolution, fps<=5; Single stream, fps may be half of setting fps.) or not stable (SND-7082, dual streams, fps is vary between 4-30).	Disable MJPEGs FTP/Email and Record profile may fix the dual stream issue
SNP-3430H	The handler does not support SNP-3430H's sharpness function, due to this model is EOL and newer API does not have enough information to create sharpness property.	N/A
All models which support audio	All models which support audio will only support G711 codec, even if camera supports G726.	N/A
SNB 6004	VideoEdge 4.4: Samsung Handler: Local Client: SNB 6004 audio is out of sync on VE Local Client, but is in sync on victor unified client. This is a confirmed VE local client issue.	N/A
SNB-5000SNB-5000TJ	When MPV4 is set to 7fps or below is selected; no video streams for any resolution. The issue is confirmed by vendor, it is caused by very slow RTSP response when fps is set to less than 8. This limitation can cause issues when dual streaming with MPV4.	Increase fps to 8 or above

Model	Known Issues	Work Around
SNB-5000	, VideoEdge 4.4: Samsung SNB-5000: dual stream does not appear to be picking up the second stream settings, when live and alarm are set to stream 1, and stream 2 is set to record, when using victor playback, the record and live will be the same. This occurs occasionally. This can cause the fps to be unstable and may fluctuate between both stream fps settings.	Set the record stream as alarm stream.
SND-5080 SNP-3371	On VideoEdge Image Settings page, a “could not retrieve the video or lens properties” error message is occurring and the sharpness drop down menu is appearing blank.	Change the sharpness settings via the camera web interface: Camera GUI -> Setup -> Camera set up -> Special -> Sharpness level When added to the VideoEdge the settings will remain configured.

Model	Known Issues	Work Around
Encoders	Some cameras can support a max fps of 25 or 30. In either case the resolution available in the resolution list shall always be the same. However, when a camera that supports only 25fps is added to the encoder, the resolution streamed shall be the selected resolution on the camera web interface, but the resolution list will be different. When a camera of 25 max fps is added to the Encoder the resolution list on the VideoEdge GUI will display the resolution for a camera that supports 30fps but the cameras GUI will display the correct resolution list.	Set the required resolution on the camera web interface
SND-7001	When dual streams are enabled for this camera, the camera is unable to stream at the settings set for the first stream - there are no palettes available for this stream. It may take two attempts to successfully add this camera to the recorder.	Configure the camera for single stream only. Disable the 'auto-config' option for the camera on the VideoEdge recorder. To disable Auto Configure: Select Devices > Video List > Select the camera setup icon > Function & Streams > Select the 'Disabled' radio button. N/A

SONY

Camera generation

Generation	Model family
3rd Generation Cameras	SNC-CS50N/P, DF50N/P SNC-DF80N/P, DF85N/P SNC-RZ50N/P, RX530N/P SNC-RX550N/P, RX570N/P
4th Generation Cameras	SNC-CM120 SNC-CS20 SNC-DM110, DM160 SNC-DS10, DS60

Generation	Model family
5th Generation Cameras	SNC-CH110, DH110, DH110T SNC-CH210, DH210, DH210T SNC-CH120, CH160, CH220 SNC-DH120, DH120T, DH160 SNC-DH220, DH220T, DH260 SNC-CH140, CH180, CH240 SNC-CH280, DH140, DH140T SNC-DH180 SNC-DH240, DH240T, DH240 SNC-CH260, DH260, DH280 SNC-RH124, RH164, RS46N/P SNC-RS44N/P, RS86N/P, RS84N/P SNT-EX101, EX101E, EX104 SNT-EX154, EP104, EP154 SNC-EP520 SNC-EP521 SNC-EP550 SNC-EP580 SNC-EP585 SNC-EP585H SNC-ER520 SNC-ER521 SNC-ER550 SNC-ER580 SNC-EB520 SNC-EM520 SNC- EM521
6th Generation Cameras	SNC-WR630,SNC-WR632C,SNC-WR600, SNC-WR602,CSNC-VB630,SNC-VM600, SNC-VB635,SNC-VM630,SNC-VM631, SNC-VM632R,SNC-VB600,SNC-VM601, SNC-VM641,SNC-V-642R,SNC-VB640, SNC-VB642D,SNC-CH135SNC-VM602R, SNC-VB600B,SNC-VM600B,SNC-VM601B, SNC-VB632D,SNC-EB630,SNC-EM600, SNC-EB632R,SNC-EB602R,SNC-EB630B, SNC-EM630,SNC-EM631,SNC-EM632RC, SNC-EM641,SNC-EM642R,SNC-EB600, SNC-EB600B,SNC-EB640,SNC-EB642R, SNC-CH115SNC-EM601,SNC-EM602RC, SNC-XM632,SNC-XM631,SNC-XM636, SNC-XM637SNC-CX600,SNC-CX600W, SNC-HM662
7th Generation Cameras	SNC-VB770, SNC-VM772R

Supported key functions

- Video Streaming – Single and Dual
- Video Codec – MJPEG, MP4V and H.264

- Audio Streaming
- Audio codec supported depends on camera functionality
- PTZ – applies to cameras with mechanical pan, tilt and optical zoom
- Edge Based Motion Detection
- Edge Based Motion Metadata
- Edge Based Face Detection
- Edge Based Face Metadata
- Dry contact events – HTTP server push functionality is available for increase in efficiency and speed of obtaining dry contact events

Unsupported key functions

- Find devices
- Power-off devices
- Get device log
- Reset to factory default
- Digital PTZ – on cameras that support internal digital PTZ
- Reboot device

Audio/Video stream feature

Changing the stream settings such as codec, resolution, fps or quality of a selected video stream may require up to five seconds of time delay to re-establish the video stream.

MJPEG video quality settings can range from 1 - 10. VideoEdge normalized values range from 10 - 100, with incremental steps of 10. The video quality setting is not applicable for MP4V or H.264 codecs.

Video bit-rate control settings for MP4V and H.264 must be done via the camera web page.

Required network parts

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: admin
- Password: admin

Setting up 6th and 7th generation cameras for use on VideoEdge

Only the first camera stream is enabled by default. To enable dual streaming, enable the second stream on the camera's web page before you add the camera to VideoEdge.

If using Edge-based Motion detection or Face detection you must enable and set respective windows on the camera web page before you add the camera to VideoEdge.

(Camera limitation) Some cameras have Stabilizer functionality. This feature is not compatible with Motion detection. You must disable Stabilizer functionality before you configure Motion Detection on the camera's web interface.(Navigate to System->Installation-> Stabilizer).

(Camera limitation) After you configure motion detection or face detection, you must close any camera browsers opened, especially for the camera Motion/Face detection configuration page after the Motion/Face configuration is finished. Otherwise Edge Based Motion/Face detection will not work. This is a camera limitation.

It is important you close any camera browsers connections to the camera after adding it to the VideoEdge. If there are any open connections to the camera (via camera browsers) it may result in a negative performance impact on the camera, for example video loss or video freezes. This is a camera performance limitation.

Special points

The following table shows the options for day/night mode on the VideoEdge, and the corresponding options on the Camera web page.

VideoEdge	Camera web page
Auto	Auto
Day	Manual (Status Day)
Night	Manual (Status Night)
Schedule	Timer

Limitations

The following limitations which apply to the previously released 5th generation cameras also apply to all new SONY camera models documented in this release:

- For the HM662 the bitrates 20,30,40,50 are not supported.
- For the EP154 if you have stream 1 set to MJPEG @ 30 fps. It will occasionally only stream 1 fps. This is due to a camera limitation
- Cameras prior to the 6th Generation cannot tell the handler which resolutions are available on the camera. Therefore, the handler's resolution list is fixed. When you configure the camera through VideoEdge, if you select an unsupported resolution for the second camera stream, stream swapping may occur. This may also cause streams to swap and settings to change during upgrade. For example, the SNC-CH110 camera through does not support the following resolution: 1280 x 720. If you select this resolution for the second stream, the settings may change after a handler reset.
- For the SNC-WR630 camera, after disabling edge motion alerts on the VideoEdge they may still be received in victor client.This is only in VideoEdge 4.8.1. If you want to remove the alerts, you will need to delete the camera and re-add to VideoEdge. This is fixed in VideoEdge 4.9.0 and later.
- G726 is not supported for all Sony camera, please use G711 or AAC.
- Bit rate control is not supported for MJPEG, only VBR is supported. Please set the Bit rate control to CBR before adding the camera to the VideoEdge and then use the camera web page to make changes to the CBR value.
- For the SNC-HM662 camera, if dual streaming MJPEG is used you may experience instances of video loss using the following configuration but not limited to, 1600 x 1200 on Stream 1 and 640 x 480 on Stream 2. To reduce video loss frequency, we recommend you to reduce the resolutions for both Stream 1 and Stream 2.
- PTZ functions are not supported on all SONY Encoders due to the SONY API performance limitation.
- Relative Focus and Iris are not supported on all SONY Encoders.
- Relative iris is not supported, which means victor client won't be able to adjust the Iris. However the absolute Iris adjustment is available through the Camera web page.
- Due to a limitation in VideoEdge motion detection stream selection algorithm, the MP4V stream cannot be utilized for motion detection. This limitation requires quality setting in the MP4V stream, which is not supported by the cameras.

- The VideoEdge supports dual-streams for SONY 5th generation cameras with some camera performance limitations. Please refer to SONY camera documentation for more information.Recommendations:
- Refer to the Camera web page to determine possible available dual stream combinations before setting the stream configuration in the VideoEdge. Resolution, fps and quality settings in stream 1 will affect the possible configuration settings for stream 2.
- If the resolution of the primary stream is much larger than 640 x 480, create a secondary stream, at 640 x 480 or less.
- On some cameras, configuring Stream 1 to a high resolution and frame rate settings with H.264, the camera may not allow dual stream. In such case, an attempt to enable the motion detection meta data will fail.
- The VideoEdge in some cases may detect an attempt from a user to set a non-supported dual stream combination and will report an error. It will then automatically configure the stream to its known limitation, according to what is shown on the camera web page
- The configuration limits available for a secondary stream might be different between two cameras of the same model, same firmware level, and same primary stream configuration depending on some other camera configuration choices, such as Wide-Dynamic-Range (which, in some implementations, may cut the maximum available frame-rate in half).
- Over-configuration of streams can have different results on different camera models. In some instances, the camera attempts to run the configuration with a result that camera responses to direct commands become slower and slower. To recover from this over-configured settings may require camera reboot using the direct camera web page or camera power-cycle.
- It is recommended to change stream parameters (Codec, fps, Quality, and Resolution) one step at a time, as repeated and excessive stream changes can cause the camera to continuously alarm on the VideoEdge/victor Client. Power cycling or rebooting the camera will normally clear the fail condition.
- The VideoEdge admin client camera details screen will mark MJPEG video resolutions that are greater than 2040 pixels in width or height as “unsupported”. An attempt to select and apply an “unsupported” resolution from the drop down list will fail.
- An unrecognized SONY camera configured as SONY Generic will be assumed to be 5th-generation, with resolution choices comparable to CH220, CH260, DH220, DH260 -- 1920 x 1440 max, 320 x 240 minimum. If that camera is configured (from the camera web interface) to have a max resolution of 1920x1080, then an alternate list of resolutions is used with 320 x 192 min. The available fps are consistent with other 5th-generation cameras. The optional VPA and Lens properties are configured as EMPTY and controls would not be offered. Dual streams with H.264, MP4V, and MJPEG would be available, but there would be no audio and no contact alarms. The PTZ functionality will work if the PTZ camera is compatible with 5th-generation PTZ cameras.
- An invalid password group will cause the MAC address field and some VPA and Lens properties to display “unknown”. Errors will occur when attempting to change the fps, resolution, quality or VPA and Lens properties.
- When there is a MP4V recording, set the resolution and fps value first before enabling audio. If fps or resolution must be changed after the audio, be sure to disable, re-enable and re-configure the audio to avoid 1 second audio lag in play back.
- SONY 5th generation cameras set with motion-detection using MJPEG will present the limitation that if H.264 has been used for the primary stream, it cannot be used for the secondary stream.
- Digital PTZ is not supported.

- Due to the above limitation, it is recommended to set the aspect ratio of CH210, DH210/210T to 16:9 prior to configuring them on VideoEdge. The 4:3 aspect ratios can be set after they are configured on the VideoEdge. However, re-adjusting the fps, resolution may be necessary for them to work properly with the VideoEdge.
- On some Sony cameras the primary and secondary streams configuration will not necessarily reflect stream one and stream two on the VideoEdge. The camera only identifies the streams by the stream codec (ignoring fps and resolution). Therefore Stream one on the cameras web page may reflect the second stream on the VideoEdge.
- Sony cameras that are set to use HTTPS may not be found by the VideoEdge auto-discovery function. These cameras need to be added manually.

Known camera limitations

Model(s)	Known camera limitation/ behavior	Notes
All Cameras 6th and 7th generation	On VideoEdge the bitrate is shown as a text box for H.264. It is important you close any camera browsers connections to the camera after adding it to the VideoEdge. If there are any open connections to the camera (via camera browsers) it may result in a negative performance impact on the camera, for example video loss or video freezes. This is a camera performance limitation. After loss of power to the camera it may take up to 2 minutes for the edge alarms and meta data to come back online, this means there will be no alerts or meta data for these 2 minutes. Adding and changing configuration on the camera may be considerably slower than previous generations.	Please check with the camera web page on settings that the camera supports, this is a camera firmware issue. This is due to a camera performance limitation. This is due to a camera performance limitation This is due to poor camera performance

Model(s)	Known camera limitation/ behavior	Notes
Cameras using HTTPS	You may encounter the following errors when adding or using camera via HTTPS. This is due to camera performance limitations: On add the following popup appears: “No VE Text response after waiting 5000 milliseconds.” On add the following popup appears: “Error adding device.” On add the following popup appears: “Unable to query Video Resource Stream - handler error: A requested resource is missing or unavailable.” On add the following popup appears: “Unable to query number of audio inputs - handler error: unsupported.” Video Properties may not be displayed as expected.	Refresh the VideoEdge web page and your camera will be added. However, the Audio stream is not associated with the Video. You can change this on the advanced edit page. Refresh the VideoEdge web page and confirm that your camera is not on the Video or Audio list. Refresh the VideoEdge web page, go to the Audio list. Delete the audio device and re-add the camera. Refresh the VideoEdge web page and delete the camera from the video list. Then, re-add the camera. Refresh the VideoEdge admin page.
SNC-VM772R	Before adding to the VideoEdge ensure that B-Picture is turned off on the camera web page to ensure video streams as expected Edge metadata is not supported for this camera. The camera add page may be displayed longer than expected or never disappear until a refresh of the page. VideoEdge motion detection is not supported on this camera. Please use Edge Based motion detection. Image setting are displayed on the VideoEdge not all of these are supported by the camera. There may be some latency with the camera when running it on 4k.	On the camera webpage go to Settings > Video/Audio > Video Codec > B-Picture 1 > uncheck the box and press OK This is due to a camera firmware limitation. This is due to a camera limitation where only 1 stream is available when in 4K mode, also the camera does not support MJPEG. Please uncheck “Enable Smart Search (Motion Metadata)” to reduce seeing this issue. This due to the camera not supporting MJPEG codec. Please change all image settings on the camera web page. This is due to a performance limitation on the camera.

Model(s)	Known camera limitation/ behavior	Notes
SNC-HM662	Audio for this camera is not supported. Video displayed on victor Client has a lower fps than is set on VideoEdge, to achieve full fps and Resolution please disable “Auto-configuration” and use “single streaming”. If dual Streaming is required please reduce the resolution on the first and second stream to the lowest resolution available. Please make all image property changes for this camera on the camera webpage. The image property settings are not supported on the VideoEdge admin GUI.) Edge Motion metadata is not supported on this camera Dewarp is not supported on this camera on victor client. This is due to the camera not supporting the required API.	
SNC-WR630	In some instances the camera cannot be added to VideoEdge. (More often after multiple camera configuration changes).	This is a camera performance limitation. Please use the following workaround: Factory default the camera and set the resolutions of all the streams to the lowest resolution.

Model(s)	Known camera limitation/ behavior	Notes
All SONY Cameras	Retrieving camera configuration on VideoEdge does not required authentication. Due to SONY camera over-configuration issues, cameras may not respond to the following resolution change request. If this happens, the camera will return its own setting. For example: From: H.264@5fps 640 x 480 MJPEG@5fps 640 x 480 To: H.264@5fps 720 x 576 MJPEG@5fps 640 x 480 The focus value is set from 0-45056, which is not user-friendly. If one camera with dry contact enable in VideoEdge is offline, it will slow response to click alerts tab and change the dry contact status in VideoEdge. It may take 30s to show the alert page, and take 60 to change dry contact active state.2 Unable to retrieve Stream 1 properties". / "Unable to retrieve camera configuration". The above errors may be displayed on VideoEdge camera stream configuration page after user edits the video stream setting(s). Due to camera limitation, camera fails to response to VideoEdge web page command within predefined VideoEdge timeout of 5 seconds. VideoEdge timeout occurs.	SONY camera CGI Get commands does not require authentication. In this case, user will see the newly requested resolution setting listed on VideoEdge. No error message is displayed on VideoEdge. User must refresh VideoEdge screen and check camera setting via camera web page to confirm if change request is executed successfully. Workaround: Repeat command on VideoEdge Workaround is to enable auto focus, or change settings on Camera Web page. Workaround: Remove offline defects To recover Stream properties, Refresh Camera configuration page

Model(s)	Known camera limitation/ behavior	Notes
All models that support audio	When audio is streaming in victor and audio codec/bitrate is changed through VideoEdge the audio streaming through victor becomes a static noise The VideoEdge & victor client does not support playback G726 audio with bit rate of 24kps.	Disabling and re-enabling audio using the audio icon in victor fixes the issue and it becomes a clear sound again.
All Megapixel Models	The QuickTime plug-in/player may not be able to live view video from the megapixel cameras at their highest resolution and 1fps.	
All encoders	The relative Pan & Tilt are the only two PTZ functions supported. They do not work in victor client	
All 3rd Generation Cameras	Required Set up Procedure for Dry Contacts: • Dry Contact Settings on both camera Web page and VideoEdge must be set to normally closed. SONY 3rd generation cameras do not support dual streams Some Sony 3rd Gen cameras will only provide the maximum fps available on stream 1 when streaming the H.264 codec. When streaming MPEG codec on stream 1 the max fps is not obtainable.	The required set up ensures correct signal being generated when sensor is triggered. MJPEG, MP4V, H.264 are supported
All 4th Generation Cameras	The camera can support only ONE video stream, either MJPEG or MP4V. The victor Client video reverse play back on Search and Retrieve as well as exported clips is not as smooth as expected.	This is due to the camera performance limitation on the RTSP/RTP protocol.

Model(s)	Known camera limitation/ behavior	Notes
All 5th Generation Cameras	Dual Stream Limitation Bitrate control via nvr GUI. Does not support dry contacts being added through HTTPS.	If you have a high stream 1 fps and resolution it will not take the stream 2 fps and resolution set on the NVR it will select its own settings. Workaround: If you want different settings please lower the fps and Resolution of stream 1 for better stream 2 settings If you want to change the bitrate on the camera please use the camera web interface to do so. This is due to a camera limitation. If you require dry contacts to be used through HTTPS, please add the camera using HTTP then change the security group to HTTPS.
SNC-RZ50	PTZ functions are not supported	
SNT-EX101, SNT-EX104	Camera Focus does not work on victor Client. This is because victor Client uses “PTZSpeed” method to implement Focus. SONY Handler does not support PTZSpeed.	Login cam web page to focus
SNT-EX104	Video and audio frame loss may occur in SONY encoder.	This is due to camera performance issue.
SNC-EP580, SNC-ER585	Video becomes unavailable after changing from H.264 to MP4V in some settings, e.g., Sometimes, video may become unavailable after changing H.264@1080p@30fps directly to MP4V@1080p@20fps on VideoEdge. No error message is displayed on VideoEdge admin client but camera codec setting remains un-changed. If you add the cameras' using HTTPS there may be some PTZ lag.	In case the video becomes unavailable after changing Stream 1. The camera must be changed to MP4V using camera’s web page before changing codec from H.264 to MP4V stream on VideoEdge. To fix this issue please add the camera using HTTP protocol.
SNC-EP580, SNC-ER520, SNC-RH124, SNC-ER585	Enabling blc will fail if auto IRIS is disabled.	Required Steps for enabling blc for IRIS: Set Auto Iris mode to auto, Set blc to on.

Model(s)	Known camera limitation/ behavior	Notes
SNC-EB520	MJPEG video can't be streamed simultaneously on both VideoEdge and camera web page On camera web page, the resolution of Image 2 can’t be higher than Image 1. The SONY SNC-ER520 has a slower camera inquiry page response time than other SONY camera models. The camera inquiry CGI response time for this camera is about 0.85 seconds. The focus value range doesn't match with the range of the handler encoder profile. The focus value range is 0-2399 in Sony handler encoder profile, but 0-2345 in VideoEdge web page.	This only applies to the following settings or the following settings: fps30 704 x 576 fps30 720 x 576. If stream 1 resolution is 640 x 480 or higher, the highest fps of both streams is 15. In the case when VideoEdge only has one single stream enabled, you must check if there are 2 streams enabled on the camera via camera web page. You should use the camera web page to disable stream 2 before selecting the max resolution and fps settings for stream 1 on VideoEdge The slower CGI response doesn’t cause any VideoEdge time out issues. User may experience slow VideoEdge response when changing the configuration on VideoEdge. There is no workaround
SNC-EP580, SNC-EP520, SNC-EP521, SNC-EP550, SNC-ER585	MJPEG Single Stream Limitation. When camera resolution is set to MJPEG@1920x1280@any fps greater than 6 on VideoEdge, camera will select its own settings and disregard user’s setting from VideoEdge. MP4V fps Limitation has maximum value of 20. Camera Doesn't support 25 or 30 MP4V Stream Limitation, Video loss may occur when camera is set to mp4v@1080@20fpsc Enabling blc will fail if auto IRIS is disabled.	Please refer to the camera webpage for valid fps settings. N/A. Please use another configuration setting. Required Steps for enabling blc for IRIS: Set Auto Iris mode to auto, and then Set blc to on.
RH124/DH180	When focusing in victor, the image can be focused but the listed focus value on VideoEdge is always 0	

Model(s)	Known camera limitation/ behavior	Notes
SNC-DH180	The focus value range doesn't match with the range of the handler encoder profile. The focus value range is 0-2399 in Sony handler encoder profile, but 0-2345 in VideoEdge web page.	No workaround
SONY Generic	The SONY Camera Handler supports generic cameras for those unlisted models. If one camera is not in the supported list, but is compatible with the SONY interface, it can be supported as a generic camera.	

URLs for acquiring video and audio via RTSP

Camera generation	Video URL	Audio URL
3rd Generation Cameras	rtsp://<user>:<password>@<cam ip address>:554/media	rtsp://<cam ip address>/media/audio
4th Generation Cameras	rtsp://<user>:<password>@<cam ip address>:554/media	rtsp://<cam ip address>/media
5th Generation Cameras	rtsp://<user>:<password>@<cam ip address>:554/media/video<stream ID>	rtsp://<cam ip address>/media/audio
6th Generation Cameras	rtsp://<user>:<password>@<cam ip address>:554/video<stream ID>	rtsp://<cam ip address>/audio

Vivotek Corp.

Supported key functions

- Video Streaming - Single and Dual
- Video Codec - MJPEG, MPEG4 and H.264
- Audio Streaming
- Audio Codec - G711 PCMU
- PTZ
- Applies only to cameras that have mechanical Pan, Tilt and Optical Zoom
- Dry Contact Events
- Query Device

Supported camera API and models

Supported devices are suggested by the vendor and they are divided into two categories: key models and non-key models. Non-key models utilize the same firmware as key models, and are covered by key models. The Handler is developed based on key models. Non-key models were not tested.

Model	Min. camera firmware version
FD8136	0101a
FD8135H FD8335H	0201a
FE8171V FE8171	0100h
FE8172 FE8172V	0101c
SF8172 SF8172V	N/A
AF5127 AF5127V	N/A
IP8362	0101b
SD8313E	0202b
SD8362E	0201c
PZ8111 PZ8121 PZ8111W PZ8121W	0104a 0104a1 (experimental Firmware)
VS8801	0201c
Generic	N/A
FD8369A-V	0100f
FE9181-H	0100i
FD8355EHV	0202a
FD8173-H	0101a
FD8168	0100e
FD8367-TV	0103a
FD8371EV	0302a
SD9161-H	0100i

Note: The Vivotek camera handler supports Generic camera for those unlisted models. Models not listed above can be added as generic models. Handler will provide features according to its capabilities. However, as information that can be dynamically acquired from the models is limited, generic models may not perform as well as models listed above.

Key and non-key models

Key model	Covered non-key model(s)
FD8136	
FD8135H	FD8335H
FE8171V	FE8171

Key model	Covered non-key model(s)
FE8172	FE8172V, SF8172, SF8172V, AF5127, AF5127V
IP8362	
SD8313E	SD8323E, SD8312E, SD8322E, SD8311E, SD8321E
SD8362E	
VS8801	
PZ8111	PZ8121, PZ8111W, PZ8121W
Generic	All other Vivotek models

Required network ports

- Port 80 is for HTTP
- Port 554 is for RTSP

Default username and password

- Username: root
- Password: (none)

Camera serial number

VideoEdge will use the camera's MAC address as the camera serial number

Video/Audio/Event stream feature

Models	Features			
	Video	Audio	Dry Contact	PTZ
Generic	Codec: H.264 or MPEG4 or MJPEG (depends on camera capability) Dual Stream: (depends on camera capability)	(Depends on camera capability)	(Depends on camera capability)	(Depends on camera capability)
FD8136	Single Stream: H.264, MPEG4, MJPEG Dual Stream: H.264+ H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MPEG4 MPEG4+MJPEG MJPEG+MJPEG	Codec: G711 (PCMU)	1 alarm inputs with active status, polling mode	Flip

Models	Features			
	Video	**Audio**	**Dry Contact**	**PTZ**
FD8135H (see notes 1 & 2 below) FD8335H	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MJPEG MJPEG + MJPEG Note: MPEG4 is not supported due to a camera limitation	Codec: G711 (PCMU)	3 alarm inputs with active status, polling mode	Flip
FE8171V (see note 1 below) FE8171	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MJPEG MJPEG + MJPEG Note: MPEG4 Is not supported on dual stream due to camera limitation	Codec: G711 (PCMU)	1 alarm inputs with active status, polling mode	Flip
FE8172 (see notes 1 and 3 below) FE8172V SF8172 SF8172V AF5127 AF5127V	Single Stream: H.264, MJPEG Dual stream: H.264 + H.264 H.264 + MJPEG MJPEG + MJPEG	Codec: G711 (PCMU)	1 alarm inputs with active status, polling mode	Flip

Models	Features			
	Video	Audio	Dry Contact	PTZ
IP8362 (see note 1 below)	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MPEG4 MPEG4 + MJPEG MJPEG + MJPEG	Codec: G711 (PCMU)	1 alarm inputs with active status, polling mode	Flip
SD8313E (see note 1 below) SD8323E SD8312E SD8322E SD8311E SD8321E	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MPEG4 MPEG4 + MJPEG MJPEG + MJPEG	Codec: G711 (PCMU)	3 alarm inputs with active status, polling mode	Absolute, continuous, stepped, zoom, focus, flip, preset
SD8362E (see notes 1 and 4 below)	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MPEG4 MPEG4 + MJPEG MJPEG + MJPEG	Codec: G711 (PCMU)	3 alarm inputs with active status, polling mode	Absolute, continuous, stepped, zoom, focus, flip, preset
VS8801 (see notes 1 below)	Single Stream: H.264, MPEG4, MJPEG Dual stream: N/A	Codec: G711 (PCMU)	8 alarm inputs with active status, polling mode	Stepped, zoom, focus, flip, preset

Models	Features			
	Video	Audio	Dry Contact	PTZ
PZ8111 (see note 1 below) PZ8121 PZ8111W PZ8121W	Single Stream: H.264, MPEG4, MJPEG Dual stream: H.264 + H.264 H.264 + MPEG4 H.264 + MJPEG MPEG4 + MPEG4 MPEG4 + MJPEG MJPEG + MJPEG	Codec: G711 (PCMU)	1 alarm inputs with active status, polling mode	Continuous, stepped, zoom, focus, flip, preset
SD9161-H (see note 5) Group 18(PTZ)	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec:PCMU	4 alarm inputs with active status, Polling mode.	Continuous, stepped, zoom, focus, flip, preset
SD8364E (see note 5) Group 09 (SPD)	Single Stream : H.264, MPEG4, MJPEG Dual Stream: Any combination of above codecs	Codec:PCMU	4 alarm inputs with active status ,Polling mode.	Continuous, stepped, zoom, focus, flip, preset
FD8369A-V (see note 5) Group 16	Single Stream : H.264, MJPEGDual Stream: any combination of above codecs	NA	NA	NA
FE9182-H (see note 5) Group18 Group 09 (Fisheye)	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec: PCMU	1 alarm inputs with active status, Polling mode.	NA
FD8355EHV(see note 5) Group 11	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec: PCMU	1 alarm inputs with active status, Polling mode.	NA
FD8168 (see note 5) Group 02 Group 05	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec: PCMU	NA	NA

Models	Features			
	Video	**Audio**	**Dry Contact**	**PTZ**
FD8367-TV(see note 5) Group 03 Group 07 Group 13 Group 14 Group 14-T	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec: PCMU	1 alarm inputs with active status, Polling mode.	NA
FD8371EV (see note 5) Group 10 Group 15	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec: PCMU	1 alarm inputs with active status, Polling mode.	NA
FD8173-H(see note 5) Group 09 Group 08 (Fisheye)	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec:PCMU	1 alarm inputs with active status, Polling mode.	NA
VC8201 (see note 5) Group 10 (Dual Sensor)	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec:PCMU	2 alarm inputs with active status ,Polling mode.	NA
MS8391-EV(see note 6) Group 14	Single Stream : H.264, MJPEG Dual Stream: Any combination of above codecs	Codec:PCMU	1 alarm inputs with active status, Polling mode.	NA

Note:

- These models are recommended by Vivotek as key models and other models can be covered by these models. Non-key models are supposed to have the same features as their key models.
- Only 'Stream 2' of this model supports the MPEG4 codec.
- The models have two FOV(Field of View) modes: Fisheye mode (MAX 15fps) and 1080p Full HD (MAX 30fps). Changing the FOV option erases the motion detection, privacy mask, and preset positions that you previously configured. In addition, the resolution list and the frame rate list are also changed. This setting should NOT be changed after the device is added to a VideoEdge, as it may cause an error.
- The model has two FOV (Field of View) modes: "Full HD(MAX 1080p 30fps)" and "Exceptional frame rate (720p 60fps)". Changing the FOV option will change the resolution list and the frame rate list. This setting should NOT be changed after the device is added to a VideoEdge, as it may cause an error.
- The models with the bold font are recommended by VIVOTEK as key models. The key model can cover the other models that are listed in their group. For example, FE9182-H can cover the models in Group 18 and Group 09(Fisheye).
- The model MS8391-EV is a special model in group 14, as it is a single key model

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Video

RTSP URL for getting the stream from camera:

rtsp://<ip>/live.sdp for stream 1

rtsp://<ip>/live<num>.sdp for stream 2 or above (<num> = stream number)

Audio

The handler supports the following audio codec:

G711

PCMU;

There is no dedicated URL for audio streaming. Audio and video are originally mixed in the stream out of camera. Handler extracts the audio stream from the mixed stream with the RTSP SETUP command.

Dry contact

The handler supports dry contact:

Interface Count - The dry contact count varies for camera models - it is got dynamically from camera

HTTP Client Polling is used to monitor alarm status. The polling interval is 250ms

Limitations

The VS8801 has the following limitations:

Vivotek encoders do not support PTZ on victor client.

Video stream performance is affected by the number of cameras that you attach to the encoder. If you use all eight encoder channels simultaneously, the combined maximum fps is approximately 20fps. When the encoder reaches this limit, a message appears on the VS8801 web page, in the Overview section of the Audio and Video page.

Frame rates are not guaranteed when all red-marked streams are used

Encoder limitation: If you change the audio codec for one channel, the audio codec also changes for all other encoder channels.

Interlace is not supported on the VideoEdge.

Camera Brightness, Contrast, Sharpness, and Saturation are always shown as zero in the VideoEdge, even after users apply non-zero values to them via VideoEdge Administration Interface. This is caused by a camera limitation. To avoid these errors, configure these values through the camera web client

The mechanical design of the PZ8111 means that Pan and Tilt operations are limited to a certain degree.

For all PTZ models, Diagonal PTZ is NOT supported.

e-PTZ is not supported.

The SD8313E and SD8362E: If continuous pan and tilt set are used, the camera will move up to the top and then slowly move toward the direction of the pan command. This is the camera’s expected behavior.

All PTZ models do not return an error code for PTZ and preset operations, so the handler will not know if the operations are carried out. The handler considers such PTZ operations as correctly carried out. However, the handler can know and will report the error status caused by networking issues.

Panoramic PTZ is not supported. For more information please refer to the Vivotek user manual.

When the FE8172 is added to the VideoEdge, if MJPEG is selected the camera is defaulted to constant bit rate. To increase the image quality the users can change the Bit Rate to Fixed Quality on the camera web client before adding to the VideoEdge however this will mean the user cannot stream the camera at the top two resolutions 1536 x 1536 and 1920 x 1920.

Due to a QuickTime limitation when quality is set to fixed this will cause low frame rates in QuickTime and VideoEdge, this does not affect victor.

Video streaming is unstable at high resolution when light conditions are low. Vivotek suggests setting bit rate control to CBR for more reliable streaming. However users need to be aware that it may produce lower than desired frame rate. In VideoEdge 4.3, 4.4 the bit rate control can only be adjusted through the camera's web interface.

Vivotek has confirmed Switching from Day mode to Night mode may cause frame drops and video loss, depending on the light condition, complexity of the scene and the resolution setting. Setting the bit rate control to CBR may reduce the video loss.

The Models that support Field of View are slightly different from all other models:

The resolution list, default resolution, and fps list vary with FOV setting. Once added into the VideoEdge, FOV should not be changed. Otherwise issues may occur. To change FOV, the camera must be removed from the VideoEdge first and then changed before re-added to the VideoEdge.

Some models support bitrate for MJPEG, Because it’s not common that MJPEG does not support bitrate, The VideoEdge does not support this (same as other cameras).

For all Fisheye Models that Support MPEG4. The VideoEdge cannot play the MPEG4 streams because they have custom data embedded, which will cause The VideoEdge to restart the stream frequently. So for fisheye models, MPEG4 is not supported, but H.264 and MJPEG are still supported.

Some models for example, camera model SD8362 will support fps greater than 30. However VideoEdge will only support up to 30 fps.

The Following camera models SD8313E, SD8323E, SD8312E, SD8322E, SD8311E, SD8321E all use the same firmware and are regarded by the handler as SD83X3.

The Following camera models PZ8111, PZ8121, PZ8111W, PZ8121W all use the same firmware and are regarded by the handler as PZ81X1.

The FD8235H and FD8335H do not support dual stream MPEG4. If the user wants to change the codec of one stream to MPEG4, They should make sure the codec of the other stream is not MPEG4

Back light compensation is not supported.

Due to camera hardware limitation the frame rates may not reach the highest frame rate.

VS8801 Audio not working on all channels (encoder issue) this is due to a camera issue in earlier firmware .Firmware version V0201c or above should be used. However, as the max connection count is limited to 16 by firmware, which just meets the need of VideoEdge, if streams are occupied by any client other than VideoEdge, audio / video may not be streamed to VideoEdge. Users should keep the device dedicated to VideoEdge. For example, if a VLC is streaming video from a VS8801, VideoEdge will only be able to stream 15 streams from this VS8801.

: Vivotek IP8362- in some circumstances due to low frame rate, high bandwidth and complexity of the scene user may experience Significant video freeze in Client Instant Playback throughout long period of video during night/day mode transition. This should not be observed when using Search and Retrieve.

: When adding a Vivotek camera to VideoEdge, the bitrate control will be set by default to CBR. This can be changed on the VideoEdge after adding the camera.

The Vivotek fisheye camera requires a watermark to dewarp. Transcoding is not supported for these cameras as this will remove the watermark.

VIVOTEK does not support GOP setting. VIVOTEK an alternative method; you can configure the TIME period (in seconds) between two I frames. If required, you can configure the TIME period through the camera's web page.

Max frame rate is limited to 30(NTSC, mega pixel) or 25(PAL) due to VideoEdge limitation.

Vivotek suggests distinguishing cameras with API version 0302a from those with prior API versions (NOT firmware version). New cameras follows "OneFw" API sets while the old ones follows "All Series" API sets. Vivotek handler uses http://<IP>/cgi-bin/admin/getparam.cgi?capability_api_httpversion to get the API version of a camera

The VC8201 limitations: As the Video and Audio properties depend on the lens connected to the encoder if these change then the camera has to be removed from the VideoEdge and re added.

Vivotek cameras can support the following WDR options. WDR, WDR Enhance, WDR Pro. All these are dynamically received from the camera (if supported by the camera) with is determined by camera firmware. Please refer to the camera manual on the support of the WDR features.

H.265 is not supported on VideoEdge.

Some models support Rotate Image. When changing image rotate setting, VideoEdge and victor client may have a lag because VideoEdge stops and re-starts the RTSP session.

FD8173-H It is recommended that the white balance setting for this camera should not be changed on the camera web interface after it has been added to the VideoEdge. Any changes should be made through the VideoEdge on the image settings page.

The MJPEG stream that are greater than 2040 pixels in width or height can't play in victor or VideoEdge because the RTP header limitation on MJPEG, so Vivotek handler will filter out the available resolutions which greater than 2048 x 1536

Some Vivotek models cannot reach the fps set on the VideoEdge especially when dual streams are configured, it is camera's performance limitation.

For the model MS8391-EV, changing Mirror image setting will cause frame rate drop to 1fps for a few seconds and may cause video loss

For the MS8391 and all other panoramic models the camera cannot stream above 2560 x 480 resolution.

Fisheye cameras: When you use panoramic dewarping in victor client the fps will drop to as low as 3-4 fps

When the HTTPS is enabled, the camera can respond slowly. If you the camera to VideoEdge and it does not appear in the VideoEdge device list, try adding it again.

VC8201 is a multi-channel camera. It supports two channels, and each channel can be mounted with identical or different sensors. There are two kind of sensor modules available:

CU8171 - fisheye. 3 Mega-pixel sensor with fisheye lens

CU8131 - fixed. 1 Mega-pixel WDR sensor

The service property provided by a channel is dependent on the sensor that is mounted in that channel, and there are multiple sensor combinations.

For example: When the CU8131(fixed) is mounted in channel 1 and the CU8171(fisheye) is mounted in channel 2, the channel 2 fisheye stream dewarp feature will not appear in victor client. If the two sensors are exchanged so that channel 1 is CU8171(fisheye) and channel 2 is CU8131(fixed), the fisheye stream dewarp feature will exist in victor client.

The fisheye stream dewarp feature will only be displayed when channel 1 is the mounted with the fisheye sensor CU8171. This is because the VC8201 is a special encoder device. Other encoders for each channel have the same service property as the first channel, but for VC8201, each channel service property depends on its sensor. If the first channel is a fisheye sensor, the Vivotek handler will regard both channels as fisheye. Therefore the fisheye stream dewarp feature will be displayed

on channel 1. We recommend that channel 1 is mounted with fisheye sensor CU8171 and the sensor must be connected to VC8201 prior to power-on.

Known issues

After a long period the PZ81x1 camera may not show its settings on the VideoEdge camera list web GUI. If the web browser is used to see its web client, it will show “503 Service Unavailable. There are too many connections in use right now. Please try again later.” This has been fixed in Firmware version 0104a1 and later.

The FD8135H may display Video stutter may occur on MJPEG stream. This is a camera hardware limitation.

When enabling motion detection, the second stream is automatically configured to MP4V. The second stream must then be manually changed to MJPEG. Click edit > change the codec on the second stream to MJPEG> Click save.

In the VideoEdge Administration interface, when you change the codec for both streams, occasionally one of the codec changes does not save. If this happens, you must change the stream codec again.

For the FE8171/FE8172, PZ81x1 and other models that support line in and microphones: You should use the camera's web interface to select the correct audio input for your deployment. If you select an internal microphone, you must use the camera web interface to adjust microphone volume. If you select an external microphone, you must use the VideoEdge Administration interface to adjust the microphone volume.

Some newer models such as the FD8367-TV and the CC8130 (which use the All Series API) support wdrc but do not support wdr. The VideoEdge displays wdr and not wdrc

Special points

It is recommended when the camera is added to the VideoEdge, that no property parameters are changed on the camera's web interface (unless specified on the release notes)

For the following camera models FE8171/FE8172, PZ81x1 or any other model supporting mic and line in - Internal or external microphone must be selected on the device or via camera web client respectively before camera is added to the VideoEdge. The volume controls on the VideoEdge control the external mic, the internal mic can be changed on the camera web client.

Wide Dynamic range values are:

FD8135H	0 = off, 1 = on
FE8171, FE8172, IP8362	0 = off, 1 = low, 2 = high
SD8313E, SD8362E	0 = off, 1 = manual, 2 = auto

Vivotek cameras / encoders support three different ways to set / get video quality, and keep the quality value of each way. However, at any time only one of them is taking effect. Every time a new way is used to set quality value, this way will take effect with other two stand by, i.e. the last used way will block values of other two ways from taking effect on video (though they still can be got from camera). The way handler uses is called “percentage mode” by Vivotek. Its valid values range from 1 to 100. And the camera's web interface uses the other two ways.

Vivotek handler enumerates the same bitrate range as the camera's web interface does. But custom value is not supported.

Vivotek handler support s H.264 profile setting, which is not available on the camera's web interface.

The Vivotek handler caches the mount type for the fisheye models. Users should NOT change mount type via the camera's web interface, or dewarping may not work properly.

Relay output:

VideoEdge = High (0)	Camera = Grounded
VideoEdge = Low (1)	Camera = Open

American Dynamics Contact information

If you have any questions, please contact American Dynamics Technical Services.
Contact details for your region can be found at https://support.americandynamics.net/#/contact