



## ADCA470CAFN and ADCA470CAFP

### 1/3 INCH COLOR DIGITAL CCD CAMERA WITH ADVANCED FEATURE SET



#### FEATURES

- 1/3-inch interline color CCD
- Digital signal processing
- 470 TV lines resolution
- 0.7 lux low light sensitivity
- Night-Saver™ mode offers color to monochrome switching ability to enhance low light images
- DVR-Saver™ mode saves DVR hard drive space
- Automatic detection of DC or video auto iris lenses
- C/CS mount
- Aperture correction
- Automatic electronic shutter (AES)
- Automatic gain control (AGC)
- 7 backlight compensation zones
- Sync options: line-lock or internal
- 24 VAC or 12 VDC input
- Internal isolation transformer
- Low power consumption

The ADCA470CAFN and ADCA470CAFP digital CCD cameras are the premier choice for virtually any application. A series of new advanced features offer optimal performance right out of the box.

This camera uses a high-resolution 470 TVL imager that can capture images in very low light. There is also a selectable Night-Saver™ color/monochrome mode that automatically enhances images under extremely low light conditions. When ambient light levels are restored, the camera automatically adjusts back to full color viewing. Seven selectable separate backlight compensation (BLC) zones allow for custom positioning of the camera based on the area being observed and specific areas of interest.

The selectable DVR-Saver™ mode saves valuable DVR hard drive space. When using the DVR-Saver mode on an American Dynamics' Intellex®, video file sizes are reduced by up to 30 percent.\*

When using an auto iris lens, the camera will automatically detect whether it is a DC or video type lens. Installation is made easy by an embedded 1/4" x 20 mount in both the top and bottom of the camera.

The camera features internal and phase adjustable line-lock options for "roll-free" switching, and a fully isolated power supply that allows multiple cameras to be connected to a single 24 VAC source. This isolation also helps eliminate ground loops.

\* Results may vary based upon scene content, motion and lighting conditions.

## SPECIFICATIONS

### Model Numbers

ADCA470CAFN	Camera, 1/3-inch, Color DSP, 470 TVL, Adv Features, 0.7 Lux, NTSC, 24 VAC/12 VDC
ADCA470CAFP	Camera, 1/3-inch, Color DSP, 470 TVL, Adv Features, 0.7 Lux, PAL, 24 VAC/12 VDC

### Operational

Imager	1/3 inch interline transfer CCD array
Video Output	1.0 V p-p/75 Ω composite
Active Pixel Count	
NTSC	768 (H) x 494 (V) pixels
PAL	752 (H) x 582 (V) pixels
Minimum Scene Illumination	0.7 lux (f1.2 lens)
Horizontal Resolution	470 TV lines
Light Compensation Modes	Automatic electronic shutter, (On/Off) (NTSC 1/60 - 1/100,000 sec) (PAL 1/50 - 1/100,000 sec)
Auto Iris Drive	DC or EE-type (auto detect)
Backlight Compensation	7 zones, selectable
Aperture Correction	Yes
Synchronization Modes	Internal or line-lock with 360° phase adjustment
White Balance	Auto or manual modes
Geometric Distortion	None
S/N Ratio	> 50 dB

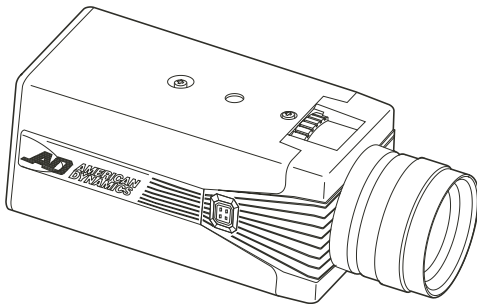
### Electrical

AC Voltage	24 VAC (+33%, -15%) @ 50/60 Hz (PAL/NTSC)
DC Voltage	12 VDC (+15%, -10%)
Power Consumption	4.2 watts maximum

### Mechanical

Lens Mount	C or CS type
Camera Mount	1/4 inch - 20 (top and bottom)
Dimensions (W x H x D)	.52 x .60 x 123 mm (2.05 x 2.36 x 4.84 in)
Unit Weight	350 g (0.77 lbs)
Shipping Weight	450 g (1.0 lbs)
Color	Light gray (body), dark gray (accents)

### Side View



### Environmental

Operating Temperature	-10° to 50° C (14° to 122° F)
Storage Temperature	-20° to 60° C (-4° to 140° F)
Humidity	90% RH (non-condensing)

### Regulatory

Emissions	FCC: Part 15, Class A CE: EN55022, Class B ICES-003
Immunity	CE: EN50130-4
Safety	UL2044

### Controls

Night-Saver™ (Nite - SVR)	On/Off
DVR-Saver™ (DVR - SVR)	On/Off
Backlight Compensation (BLC1)	On/Off
Backlight Compensation (BLC2)	On/Off
Backlight Compensation (BLC3)	On/Off
Automatic Gain Control (AGC)	On/Off
Automatic Electronic Shutter (AES)	On/Off
Synchronization Selection (Sync)	Int/LL
Automatic White Balance (AWB)	Man/Auto
White Balance/Phase Adjust.	WHT BAL/PHASE

### Connectors

Input Power	Screw terminal block
Composite Video	BNC
Video Iris	4 pin square connector
DC Iris	4 pin square connector

### Recommended Housings

ADCH10, ADCH10B, ADCH10H, ADCH10HB, ADCH10MT8, ADCH10HBM8, AD1301, AD1303, AD1305 and AD1314

### Recommended Camera Mounts

ADMC1361, ADMC1362, ADMC1363, ADMC1365, ADMC100T, ADMC1366, ADCMU1312 and ADCMU

### Recommended Camera "Pre-Packs"

Include camera, lens, housing and mount, and are available in multiple configurations. Check [www.americandynamics.net](http://www.americandynamics.net) for a complete list.

### Rear View

