



## ADC710 and ADC710X

1/3-INCH COLOR CCD CAMERA



The ADC710 and ADC710X color 1/3-inch CCD cameras are an excellent choice for general purpose applications.

With 330 TV lines resolution and other advanced features, the camera delivers a clean, sharp picture.

Good low light sensitivity (1.0 lux), along with automatic electronic shutter and automatic gain control, assures the camera will operate in a wide range of lighting conditions. For more extreme lighting conditions, the camera also supports use of DC-type or EE-type auto iris lenses.

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

### FEATURES

- 1/3-inch interline color CCD
- 330 TV lines resolution
- 1.0 lux light sensitivity
- Supports DC-type or EE-type auto iris lenses
- C/CS lens mount
- Aperture correction
- Automatic electronic shutter
- Automatic gain control
- Automatic backlight compensation
- Phase adjustable line-lock
- 24 VAC input
- Internal isolation transformer
- Low power consumption

# SPECIFICATIONS

## Model Numbers

ADC710 ..... Camera, NTSC  
 ADC710X ..... Camera, PAL

## Operational

Imager ..... Interline transfer 1/3-inch CCD array  
 Video Output ..... 1.0 Vp-p / 75  $\Omega$ , composite  
 Active Pixel Count  
   EIA ..... 512 (H) x 492 (V) pixels  
   CCIR ..... 512 (H) x 582 (V) pixels  
 Minimum Scene  
   Illumination ..... 1.0 lux (f1.2 lens)  
   Horizontal Resolution ..... 330 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  
 Backlight Compensation ..... On/Off selectable  
 Synchronization Modes ..... Internal/Line-lock with phase adjustment  
 White Balance ..... Auto  
 Geometric Distortion ..... None  
 S/N Ratio ..... > -46 dB

## Controls

ELC ..... On/Off  
 BLC ..... On/Off  
 Back Focus ..... Self-locking adjustment screw  
 Auto Iris ..... DC/EE-type, switchable  
 DC Iris ..... Level control  
 AGC ..... On/Off  
 V-Phase ..... Level control

## Connectors

Input Power ..... Screw terminals  
 Composite Video ..... BNC  
 Video Iris ..... 3 pin screw terminal  
 DC-type ..... 4 pin square connector

## Electrical

Voltage ..... 24 VAC  $\pm$ 20%  
                     60 Hz (NTSC)  
                     50 Hz (PAL)  
 Power Consumption ..... 4.8 watts

## Mechanical

Lens Mount ..... CS standard with C adapter included  
 Camera Mount ..... 1/4-inch - 20 (top or bottom)  
 Dimensions (H x W x L) ..... 55 x 55 x 120 mm  
   (2.16 x 2.16 x 4.72 in)  
 Unit Weight ..... 400 g (0.9 lbs)  
 Shipping Weight ..... 550 g (1.2 lbs)  
 Color ..... Light gray

## Environmental

Operating Temperature ..... -10° to 50° C (14° to 122° F)  
 Humidity ..... 85% RH (non-condensing)  
 Storage Temperature ..... -30° to 60° C (-22° to 140° F)

## Regulatory

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

## Recommended Housings\*

AD1301, AD1303, AD1305, AD1314, AD1315  
 AD1317, AD1335, AD1337, AD1348  
 \*Dependent on lens dimensions.

## Recommended Camera Mounts

ADMC1361, ADCM1362, ADCM1363, ADCM1365  
 ADCM1366, ADCM100T

