

## Weatherproof Long Range Outdoor Camera

The ECL-640 uses a premium quality 5-50mm varifocal lens to provide long range (manual) zoom capability and an array of 53 infrared LEDs that reach up to 120' or more on the darkest night. An auto-iris and a 1/3" Sony CCD video sensor with a digital processing chipset generates clear images in a wide range of light levels. An adjustable automatic mechanical IR filter helps keep images in focus, minimizing IR shift when switching from standard to infrared mode. All metal housing and removable sunshield. Bracket (model ECL-210W) not included.



### Easy-to-Access Varifocal Adjustment Rings



The varifocal lens has the normal manual adjustments for focus that you would find on any varifocal lens. To make adjustments, unscrew the knurled barrel cover and slide back, as shown in figure 1. This will expose the internal adjustment rings, as shown in figure 2. Adjust the lens using the inner knurled rings.

### Radiant Infrared Subsystem



The radiant infrared array is under automatic photosensor control. When available light reaches a factory preset threshold, the photosensor switches the camera into infrared mode.

The inner surface of the optically clear front glass panel has an integrated opaque ring to prevent infrared light contamination during IR mode. This prevents hazing and image degradation when the infrared LEDs are ON.

## General Specifications

### Video Sensor: 1/3" Sony HQ1 IR sensitive CCD

High Resolution: 540 lines

Effective Pixels: NTSC 768 x 494 (379K), PAL 752 x 582 (437K)

Built-in Digital Signal Processing

IR LED Array: 53 Units operating at 850nm wavelength

IR Range: 120' (36+ meters), depending on atmospheric conditions

Automatic Mechanical IR Filter

Photosensor Controlled IR

Light Level Sensitivity: 0.0 Lux w/IR on

Video Signal Synchronization: Internal

Video Signal Level: 1Vp-p, 75 Ohm impedance

Scanning System: 2:1 Interlace

Signal to Noise Ratio: >48dB

Auto-White Balance (AWB)

Auto-Gain Control with Super-Gain Control (AGC)

Backlight Compensation (BLC)

Electronic Shutter: Auto, 1/60 up to 1/100,000 sec.

Dual Power: 12VDC / 24VAC @ 950mA with IR on (nominal)

## Optical Specifications

Lens: 5-50mm manual varifocal

Control: Auto-Iris (selectable)

Material: optical quality glass with anti-reflection coating

## Environmental Specifications

Operating Temperature: -5 degrees to +50 degrees (C)  
23 degrees to +122 degrees (F)

Storage Temperature: -30 degrees to +60 degrees (C)  
-22 degrees to +140 degrees (F)

## Physical Specifications

Dimensions: Camera body, length - 8.75" (22.23cm)  
Camera body, width - 3.25" (8.26cm)  
Sunshield, top (longest dimension) - 10.75" (27.31cm)  
Sunshield, width - 4.13" (10.49cm)

Weight: Camera - 3.4lbs (0.73kg)

