



### IX-4000L and IX-4000H Day/Night Cameras with Wide Dynamic Range

- 1/3-inch double (progressive) scan CCD
- High resolution of 480 TV lines
- Removable IR filter for true day/night functionality
- Integrated Wide Dynamic Range function
- 12 VDC/24 VAC or 230 VAC
- Backlight compensation; automatic white balance
- Digital Slow Shutter (DSS), OSD and privacy zones
- Line-locking synchronization in AC mode

The IX-4000 day/night camera combines the latest cutting edge technology with a uniform and attractive product design. The IX-4000 cameras offer exceptional picture quality together with a superb feature range that will meet the needs of any security and surveillance application.

A high resolution of 480 TV lines coupled with very high sensitivity of 0.01 fc (0.1 lux) in color or 0.0001 fc (0.001 lux) in B&W, 2X DSS combine with features such as backlight compensation to provide superb picture quality even in areas with difficult lighting or difficult environments.

The integrated WDR function (Wide Dynamic Range) ensures that problems such as smearing and blooming effects in the image resulting from strong backlight are eliminated and that pictures are displayed in clear detail. The integrated 1/3- inch CCD image sensor with double scan technology allows recording of pictures with a great deal of activity. The complete picture is transmitted at an increased picture frequency instead of two half pictures, allowing for more clarity and detail.

Features such as convenient on-screen menus, privacy zones, frame integration and electronic zoom make the IX-4000 an exceptionally full feature and high value choice. The integrated RS-485 interface allows remote set up of the camera via optional application software. The camera is available as IX-4000L with 12/24 V (dual) input voltage or IX-4000H with 230 VAC input and is suitable for 1/3" lens type (manual or DC). The AC model camera features adjustable line locking synchronization.

Model	Product Code	Description
IX-4000L	9005-03	1/3-in. day/night camera; 480 TVL resolution, wide dynamic range, 12 VDC/24 VAC; isolated power input; PAL
IX-4000H	9005-06	1/3-in. day/night camera; 480 TVL resolution, wide dynamic range, 230 VAC; isolated power input; PAL

**Table 1: Models, Product Codes and Descriptions**

## Technical Information

### ELECTRICAL

**Input Voltage:** IX-4000L: 12 VDC/24 VAC  
IX-4000H: 230 VAC.  
Isolated power input.

**Current:** IX-4000L: 12 VDC: 500 mA,  
24 VAC: 250 mA, max.  
IX-4000H: 27 mA.

**Power Consumption:** IX-4000L: 6.0 W max.  
IX-4000H: 6.0 W max.

**Heat Equivalent:** IX-4000L: 0.34 btu/min  
(0.09 kg-cal/min).  
IX-4000H: 0.34 btu/min  
(0.09 kg-cal/min).  
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of the heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

**Output to Autoiris:** DC drive.

**Radio Frequency Emission Rating:** EN61000-6-3:2002-08.  
Generic Standards:  
EN55022:2003-09,  
EN61000-3-2:2001-12,  
EN61000-3-3:2002-05.

**Safety Standard:** CE.

### VIDEO CHARACTERISTICS

**Image Device:** 1/3-inch double scan CCD,  
2:1 interlace.

**Active Picture Elements:** 440,000;  
752 (H) x 582 (V).

**Sensitivity:** 0.01 fc (0.1 lux), color;  
0.0001 fc (0.001 lux), 2X, DSS,  
B&W mode.

**Horizontal Resolution:** 480 TV lines.

**Electronic Iris:** 1/50 – 1/100,000.

**Signal-to-Noise Ratio:** >50 dB, AGC OFF/S/W mode.

**White Balance:** ATW/AWB/MWB.

**Video Output:** 1.0 V p-p/75 ohm composite.

**Scanning System:** 625 lines, 50 fields/sec.

**Synchronization:** IX-4000L: 12 VDC, Internal;  
24 VAC, Line locking.  
IX-4000H: Line locking.

**Gain Control:** AGC, adjustable, 10 dB, 20 dB,  
30 dB.

**Day/Night Function:** AUTO/Day/Night/EXT,  
selectable.

### Backlight

**Compensation:** WDR/BLC, adjustable.

**Gamma Correction:** 0.45.

**Digital Slow Shutter:** Up to 160X.

**Flickerless:** 1/100 sec.

**Remote Access:** Via integrated RS-485 interface.

**Privacy Zones:** 4, adjustable.

**Digital Zoom:** Up to 4X.

**Flip:** Up/down, left/right/rotate 180°.

### CONTROLS AND CONNECTORS

**External Controls:** OSD Menu.

**Connectors:** Power: 2-pin terminal block,  
cord with plug.  
Video: BNC.  
Autoiris Lens: 4-pin connector.

### MECHANICAL

**Mounting:** ¼-20 threaded hole in camera  
bottom and camera top.

**Lens Mount:** C/CS mount with adapter ring.

**Flange Back Adjustment:** Screw thread.

**Dimensions:** Height (H): 2.6 in. (65 mm).  
Width (W): 2.6 in. (65 mm).  
Depth (D): 4.9 in. (125 mm).

**Weight:** IX-4000L: 0.8 lb (0.37 kg).  
IX-4000H: 1.2 lb (0.55 kg).

**Finish:** Brushed aluminum and black.

**Shipping Dimensions:**

IX-4000L:  
Height: 3.7 in. (93 mm).  
Width: 6.85 in. (174 mm).  
Depth: 3.7 in. (93 mm).  
IX-4000H:  
Height: 3.7 in. (93 mm).  
Width: 7.2 in. (183 mm).  
Depth: 5.2 in. (133 mm).

**Shipping Weight:** IX-4000L: 1.1 lb (0.49 kg).  
IX-4000H: 1.5 lb (0.7 kg).

**Shipping Volume:** IX-4000L: 0.05 ft<sup>3</sup> (0.0015 m<sup>3</sup>).  
IX-4000H: 0.08 ft<sup>3</sup> (0.0023 m<sup>3</sup>).

### ENVIRONMENTAL

**Operating Temperature Range:** +14 to 122° F  
(-10 to 50° C).



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