



PIRAMID XL2V-WC-IRS

Model: SDI-77XL2V-WC-IRS

**Black and White
Infrared Sensitive Camera**

GENERAL

The XL2V-WC-IRS version of the PIRAMID features an internally mounted 1/2" Black and White Infrared Sensitive Camera. This high performance camera is ideal for surveillance applications and provides super picture quality and high sensitivity with minimum illumination 0.0075 lux at F1.2 or 0.01 lux at F1.4. The PIRAMID XL2V-WC-IRS offers a form C relay output to activate various video switching equipment and is ideal for remote video monitoring applications.

Model SDI-77XL2V-WC-IRS is a dual technology sensor combining PROTECH's proprietary "Stereo Doppler" microwave technology with a dual-element passive infrared sensor. The independent sensor modules are "And Gated" and must activate simultaneously to create an overall sensor alarm.

The XL2V-WC-IRS version of PIRAMID has a very broad application range. The key to success is PROTECH's proprietary dual-channel "Stereo Doppler" microwave portion and its ability to ignore vibration and randomly moving objects. An internal sensitivity switch selects the distance an intruder must move to initiate an alarm. This built-in flexibility affords a high level of security while virtually eliminating nuisance false alarms.

FEATURES

Day/Night Camera - 1/2" Monochrome, Infrared Sensitive Camera is mounted within the sensor housing and provides a field of view that matches the sensor protection pattern of 90 ft. x 50 ft.

Heater - 24V, 1A heater is mounted near the camera aperture to eliminate condensation and moisture on the viewing window.

Stereo Doppler Microwave Detector - Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of false alarms.

Dual Element Infrared Detector - Ignores normal temperature variations yet is very responsive to rapid infrared changes created by an intruder.

Microprocessor Controlled - Proprietary integrated circuit design provides enhanced digital signal processing for both microwave and passive infrared technologies.

Balanced Temperature Compensation - Stereo Doppler Microwave and Passive Infrared portions automatically adjust detection parameters to compensate for the loss of range that occurs at elevated temperatures.

Stereo Doppler Supervision - A component failure will cause the sensor to lock-in alarm.

Digital Range Control - Ten-position digital switch adjusts how far the sensor detects (to its maximum range).

Digital Sensitivity Control - Ten-position digital switch adjusts the amount of movement required to initiate an alarm condition.

Enhanced Bird/Animal Immunity Control - Two-position switch adjusts the sensor's immunity to birds and small animals.

Master Alarm LED - Displayed on the face of the unit indicating the alarm relay status.

Analytic LED's - Alarm and Environmental Caution LED's for both technologies are displayed on the face of the sensor. An internal switch can disable both Master and Analytic LED's.

Walk-Test Sounder - Optional audible tester to assist in the walk-test and initial sensor set-up. The **XL-Sounder** greatly simplifies the installation as it enables walk-testing and adjustment by a single installer.

Swivel Mounting - 180° Horizontal Adjustment
90° Vertical Adjustment

Tamper Proof - Tamper switch with terminal connection.

All Solid State Relay - User selectable form C relay output. A Solid State relay is flexible, silent and more reliable than an electromechanical relay.

Metal Housing - Rugged, weather-proof housing offers maximum protection against RFI and EMI interference.

Weather Shroud - Metal hood that routes rain away from sensor's face and provides maximum protection from ice, snow, wind and sun loading.

SENSOR SPECIFICATIONS

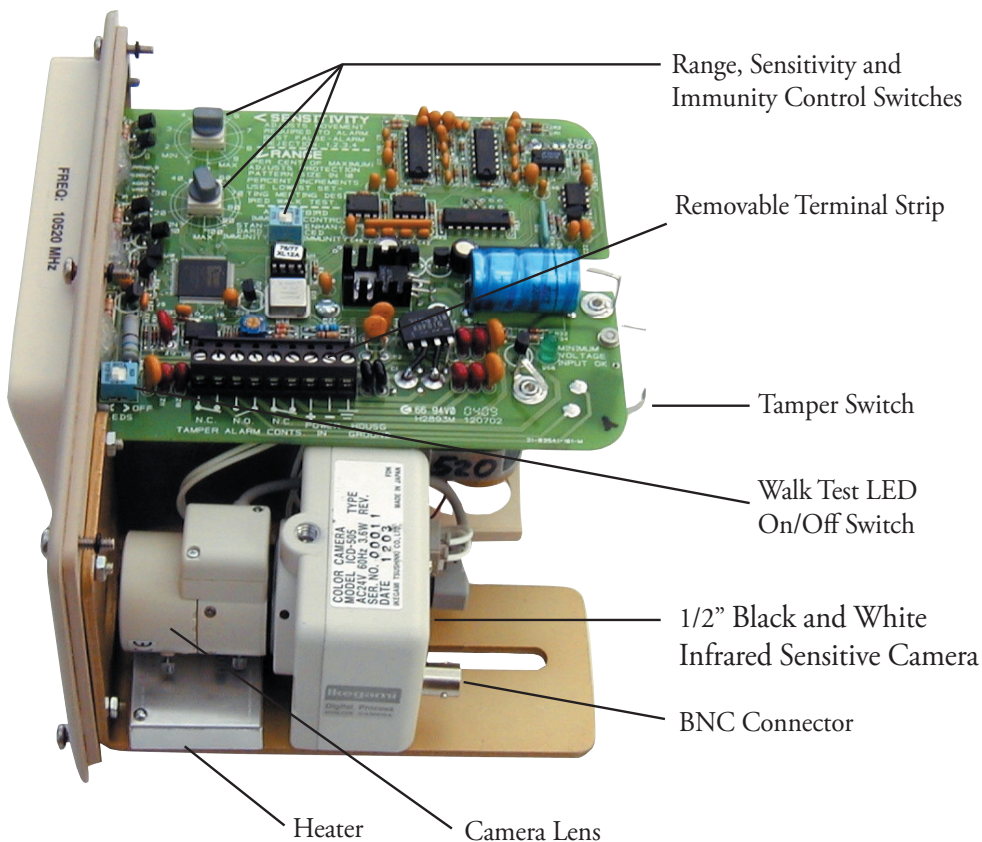
Input Voltage:	8.5 to 20 VDC
Current Consumption:	150mA @ 12VDC (LED's off)
RF Power Density:	120 uW/cm ² max. at the face of the unit
Heater Current:	500mA @ 24V (AC or DC)
Operating Temperature:	-30 F to 130 F -34 C to 54 C
Operating Humidity:	0 to 100% Relative Humidity
Relay Contact Rating:	0.1A, 50V
Housing Dimensions:	6.25" L x 8.0" W x 4.75" H
Shroud Dimensions:	10.0" L x 8.5" W x 5.25" H
Microwave Frequency:	Factory adjusted to one of the following frequencies: 10,525 MHz USA 10,587 MHz International 9,900 MHz International 9,470 MHz International

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SDI-77XL2V-WC-IRS ELECTRONIC ASSEMBLY



Camera Rear View

CAMERA SPECIFICATIONS

Imaging Device:	1/2" Interline Transfer CCD	Lens Mount:	CS Mount (C mount adaptor can be used)
Effective Pixels:	EIA: 768(H) x 494(V), 380,000 pixels approx. CCIR: 752(H) x 582(V), 440,000 pixels approx.	Camera Mount:	1/4" -20UNC
Scanning System:	EIA: 525 lines at 59.94Hz, 2:1 interlace CCIR: 625 lines at 50Hz, 2:1 interlace	Ambient Operating Temperature:	-10°C – +50°C (14°F – 122°F)
Horizontal Resolution:	EIA: 570 TV lines CCIR: 560 TV lines	Power Requirement:	EIA: AC24V +/- 10% 60Hz/DC 12V (10.5V to 15V) CCIR: AC24V +/- 10% 50Hz/DC 12V (10.5V to 15V)
Minimum Ill:	0.0075lux at F1.2 0.01lux at F1.4 (Light source: Halogen lamp, Color temperature: 2856K)	Power Consumption:	EIA: AC24V/DC12V 3.3W approx. CCIR: AC24V 270mA approx. DC12V 280mA approx.
S/N Ratio:	more than 50 dB (AGC OFF, DETAIL OFF, weight ON)	Input/Output Connectors:	Video Out: BNC Lens: 4P (applicable connector E4-191J-150 or equiv.) AC24V/DC12V Input: 2P (push in terminal)
Sync System:	Internal lock / Line lock	Dimension (WHD):	2.52" x 2.52" x 2.09" (64 x 64 x 53 mm)
Video Output:	VS 1.0 V _{p-p} /75 ohms	Weight:	250g approx. (0.55 lbs)
Backlight Compensation:	On/Off Switchable	Accessories:	Operation Manual C Mount Adaptor Auto Iris Connector – (E4-191J-150 or equivalent, CCIR only)
AES Function:	On/Off Switchable AES range: EIA: 1:1600, CCIR: 1:2000		
AGC (Automatic Gain Control):	On/Off Switchable		
Auto Iris Function:	Video Iris/DC Iris selectable (DC iris level is adjustable)		
Flange Focal Distance Adjustment Function:	Built In		

ORDER INFORMATION

SDI-77XL2V-WC-IRS	90 ft. x 50 ft. (27m x 15m)
PT24	Transformer - 24V, 40VA

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