



PIRAMID XL2V-WC-PEL

Model: SDI-77XL2V-WC-PEL

**Outdoor
Motion Sensor With
Day/Night Camera**

GENERAL

The SDI-XL2V-WC-PEL version of the PIRAMID features an internally mounted 1/3" Ultra High Resolution Day/Night PELCO Camera. This high performance camera is ideal for surveillance applications and provides super picture quality and high sensitivity with minimum illumination 0.3 lux F/1.2 in day mode and 0.07 lux F/1.2 in night mode. The PIRAMID XL2V-WC-PEL offers a form C relay output to activate various video switching equipment and is ideal for remote video monitoring applications.

The SDI-77XL2V-WC-PEL 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 SDI-77XL2V-WC-PEL 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 - Pelco C10DN Series Day/Night 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

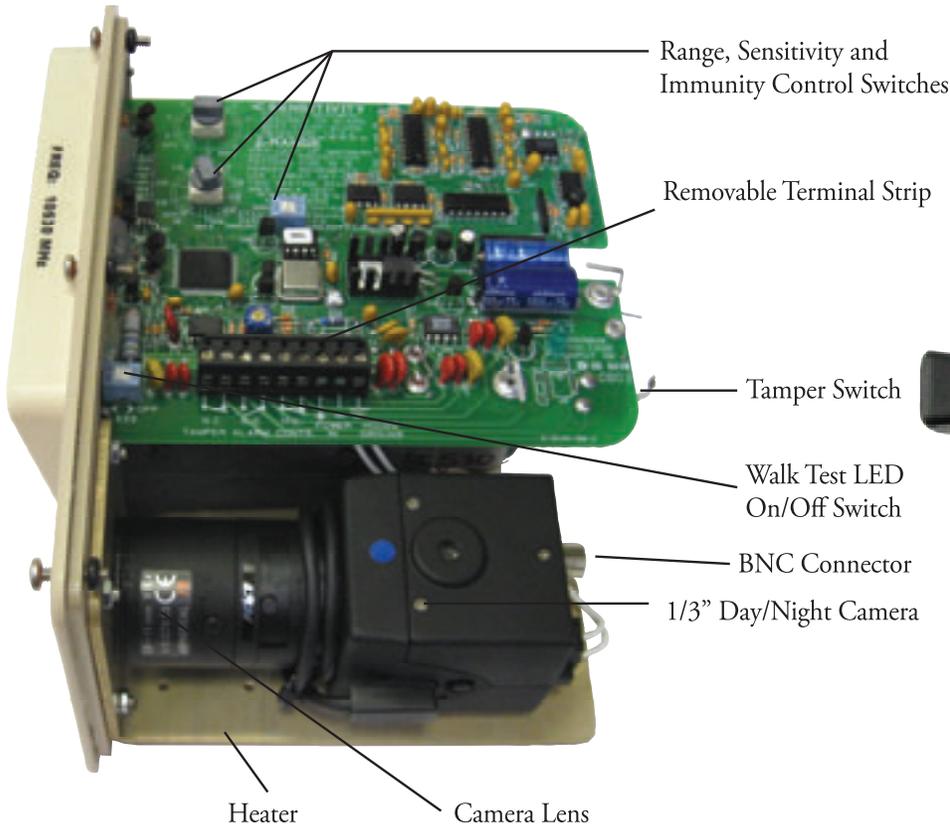
Input Voltage:	8.5 to 20 VDC
Current Consumption:	150mA @ 12VDC (LED's off)
RF Power Density:	120 uW/cm ² max. at the face of the unit
Heater Current:	500mA @ 24V (AC or DC)
Operating Temperature:	-30 F to 130 F -34 C to 54 C
Operating Humidity:	0 to 100% Relative Humidity
Relay Contact Rating:	0.1A, 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-PEL ELECTRONIC ASSEMBLY



Camera Rear View

CAMERA SPECIFICATIONS

Imaging Device:	1/3-inch Interline Transfer CCD
No. of Effective Picture Elements:	Approx. 380,000 pixels, 768(H) x 494(V)
Scanning Area:	3/16 x 1/8-inch (4.7 x 3.5 mm)
Horizontal Resolution:	540 TV Lines
Minimum Ill:	Color: 0.3 lux, f/1.2, 40 IRE, AGC on, 75% scene reflectance B-W: 0.07 lux, f/1.2, 40 IRE, AGC on, 75% scene reflectance
S/N Ratio:	>50 dB
Synch System:	AC line lock/internal
Video Output:	1 Vp-p, 75 ohms
Auto White Balance:	Selectable
Backlight Compensation:	Selectable
Eclipser Function:	Selectable
Internal Synchronization:	Selectable
Flickerless Mode:	Selectable

Auto Iris Lens Type:	DC/video drive (autosensing)
Adjustment Function:	Provided
Lens Mount:	1/4" UNC-20 Screw (top and bottom)
Operating Temp:	-10 - 50 deg. C
Power Requirement:	24 VAC +/- 15%/12VDC +/- 15%
Power Consumption:	3 W
Input/Output Connectors:	(1) Video Output: BNC (2) AC24V/DC 12V: 2-pin Terminal (3) Lens: 4-pin Connector
External Dimension (WHD):	2.52" x 2.52" x 2.09" (64 x 64 x 53 mm)

ORDER INFORMATION

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

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