

Still The Only Outdoor Motion Sensors That Really Work!

Designed and engineered for dependable outdoor use.

PROTECH manufactures several versions of the PIRAMID XL and XL2 Series that are designed for specific applications and detection requirements. All PIRAMID sensors employ PROTECH's proprietary dual-channel Stereo Doppler microwave technology for unsurpassed performance and reliability.

XL2 – Outdoor – The PIRAMID XL2 Series is the most reliable outdoor motion sensor available in the security industry. The PIRAMID XL2 offers enhanced bird immunity and a new unbelievably effective digital signal processing circuit. Rain, snow, sleet, fog, ice, wind, high temperature or low temperature does not affect the PIRAMID XL2 sensors. In addition, moving vegetation, blowing debris, swinging signs, vibration or randomly moving objects does not affect the PIRAMID XL2 sensors. This PIRAMID XL2 Series offers an excellent combination of detection response and false-alarm-free performance!

MIL – Military – The MIL Series sensors were introduced to offer enhanced detection capability when compared to the standard PIRAMID XL2 versions. The MIL sensors are often used in Government, Military and Corrections applications in place of the XL2. The MIL sensor's detection parameters are altered to enable these sensors to offer greater overall detection capability for slow moving, fast moving and crawling intruders. Special features such as anti-masking and remote self-test are also made available in these versions. The U.S. Military has approved the MIL version of PIRAMID for Protection Level (PL) 1, Nuclear and below.

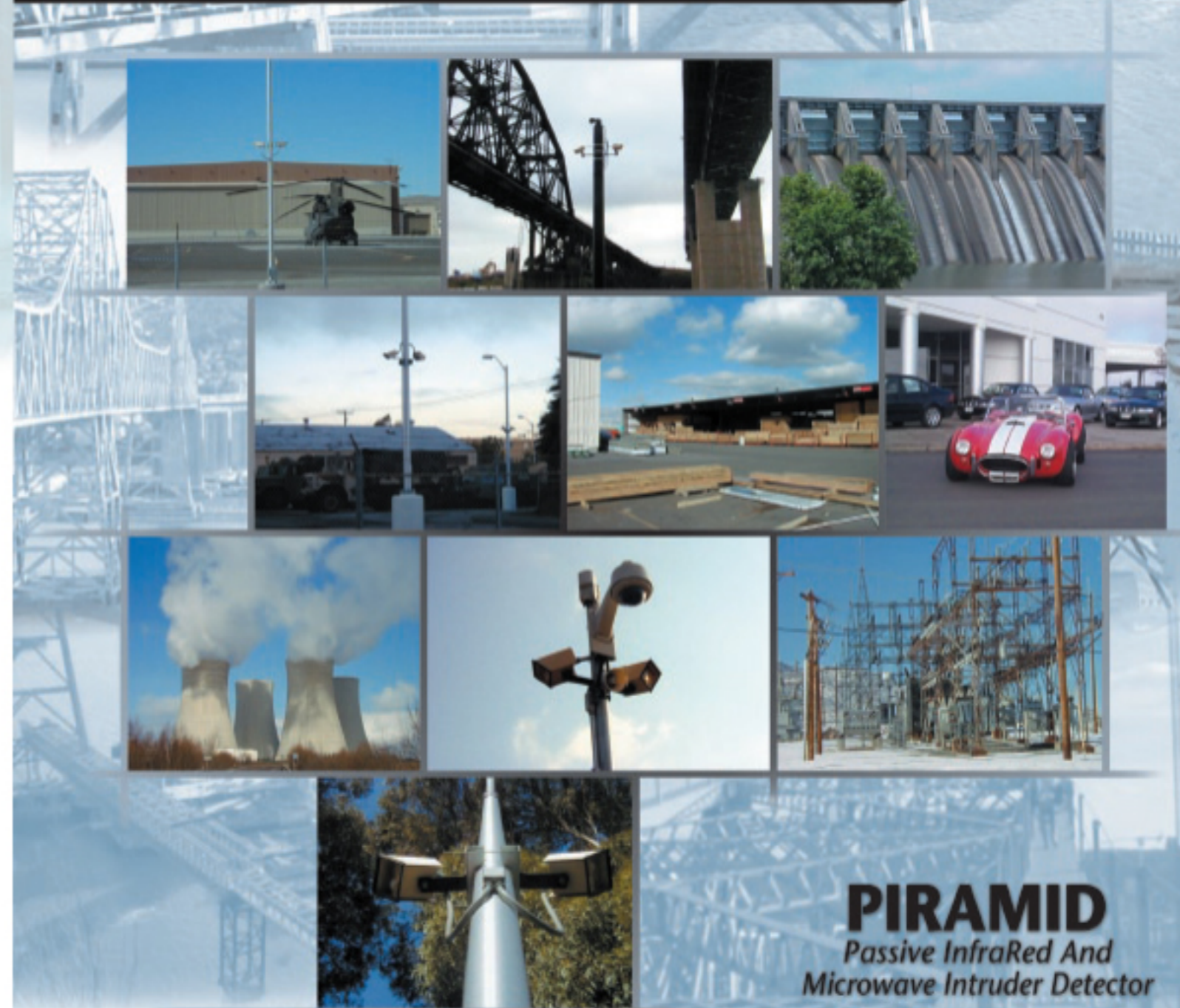


LT – Directional Control – PIRAMID LT Series offers field adjustable direction control and is designed specifically to protect ladders and towers. A three-position digital switch allows the sensor to be set to detect 1) only approaching targets, 2) only receding targets or 3) both approaching and receding targets. The PIRAMID LT sensor is generally mounted at the top of the ladder/tower/structure looking downward. In this configuration the sensor is field adjusted to detect only an approaching target (someone climbing up the ladder or structure).

EX – Explosion-Proof – The EX Series sensor is a single technology Stereo Doppler microwave sensor that was developed to protect hazardous locations due to the presence of flammable gasses or vapors, combustible dusts or easily ignitable fibers or flyings. The sensor is suitable for applications under the following standards: USA NEC - Class I, Div. 1 & 2, Groups C, D – Class II, Div 1 & 2 Groups E, F, G, - Class III – NEMA 7CD, 9EFG, dIIB – European IEC/ATEX - Zones 1, 2, Gas and Dust.

XL2V – Video – The XL2V Series of the PIRAMID features an expanded outdoor housing for the internal mounting of a video camera inside the sensor housing. The XL2V is equipped with an internal universal mounting bracket and the space available to accommodate many of the small CCD cameras available on the market. PROTECH's new PIRAMID XL2V-WC includes an internally mounted 1/3" Super Cube color camera. This high performance camera is ideal for surveillance applications and provides super picture quality and high sensitivity with minimum illumination (0.35 lux/F1.2).

IND – Indoor – The IND Series of the PIRAMID XL2 was designed to accommodate the most hazardous indoor locations. The IND Series offers enhanced bird and animal immunity and is designed with the same low temperature components as the outdoor PIRAMID XL2 sensors. The PIRAMID IND is ideal for applications in unheated warehouses and in areas with considerable bird and animals activity.



PIRAMID
Passive InfraRed And
Microwave Intruder Detector

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Gas Storage Areas



Initiates Video



Correctional Facilities



Water Utilities



Features

- Dual Channel "Stereo Doppler" Microwave
- Dual Element Passive Infrared Sensor
- Microprocessor Controlled
- Digital Signal Processing
- Balanced Temperature Compensation
- Interchangeable Lens Modules
- Ranges To 125 Feet (38 m)
- Metal Housing & Weather Shroud
- Solid State Relays For Long Term Reliability

In 1980 a technological breakthrough in microwave signal processing, termed **Stereo Doppler** was developed. This technology is the basis for PROTECH's high security sensor designs. PROTECH utilizes this proprietary dual-channel microwave design in its newest microprocessor controlled outdoor motion sensors. These unique sensors are ideal for applications requiring strategic area or specific asset protection. The PIRAMID product line is field proven in thousands of applications under all types of conditions.

Dual Technology

The PIRAMID dual technology sensors combine a Stereo Doppler Microwave Sensor with a Dual-Element Passive Infrared Sensor. The independent sensors must activate simultaneously to create an alarm condition. The key to the PIRAMID's dependability is its unique microwave sensor. Stereo Doppler Microwave Sensors perform better than Conventional Microwave Sensors because they ignore vibration and randomly moving objects. The Stereo Doppler Microwave Sensor can be field adjusted to determine the exact distance an object must move to initiate an alarm condition. This highly effective microwave sensor, combined with a temperature compensated dual-element passive infrared sensor, has exhibited unequalled success in a wide variety of outdoor installations. You can count on PROTECH's PIRAMID sensors to provide high-security, false-alarm-free performance under the most demanding conditions.

Video

A popular configuration is the use of the PIRAMID sensors with video surveillance and video verification systems. The PIRAMID is often used as an activation device for Event Driven CCTV Systems and is compatible with PTZ Dome and Fixed Cameras. In verification systems, PIRAMID sensors are used to trigger cameras that initiate transmission of pictures of protected areas to central monitoring stations. Another option is to use the "XL2V" version of the PIRAMID, which features an expanded outdoor housing for the internal mounting of a video camera.



A very significant consideration in video systems is false-alarm-free performance. Unlike outdoor passive infrared sensors and conventional dual technology sensors, the PIRAMID sensors are only activated by intruders and vehicles and not by inclement weather, changes in temperature, moving foliage, birds, small animals, etc. This unequalled stability is a tremendous cost saving advantage. It is also very desirable to guards and central monitoring personnel to view **ONLY** the events they really need to see!

False-Alarm-Free Performance

PROTECH's experience and proprietary "Stereo Doppler" Microwave Technology are the keys to false-alarm-free performance. Since 1993 PROTECH has been constantly improving and perfecting the PIRAMID Outdoor sensor. Our third generation PIRAMID XL2 Series offers enhanced bird immunity and a new unbelievably effective digital signal processing circuit.

Plain and simple, PIR and conventional dual technology motion sensors do not work outdoors without false alarms! Therefore, if false-alarm-free performance is important, there is only one choice - **PROTECH!**

Protects:

- Fence Areas
- Rooftops
- Specific Assets
- Strategic Areas

Ignores:

- Inclement Weather
- Moving Foliage
- Blowing Debris
- Birds and Small Animals