

# *Still* THE ONLY OUTDOOR MOTION SENSOR THAT REALLY WORKS!



## *PIRAMID XL2*

(Passive InfraRed And Microwave Intruder Detector)

Designed And Engineered  
For Dependable Outdoor Use.



*Water Utilities*



*Activates Camera Presets*



*Auto Dealerships*



*Chemical Storage*



*Remote Sites*



*Bridges*



[www.protechusa.com](http://www.protechusa.com)

# **protech**

Protection Technologies Incorporated





*Military Applications*



*Maintenance Yards*



*Gas Storage Areas*



*Nuclear Facilities*



*Corre*



## *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

## *About PROTECH*

In 1980 a technological breakthrough in microwave signal processing, termed **Stereo Doppler** was developed. This technology is the basis for PROTECH's high security military sensor designs. PROTECH utilizes this proprietary dual-channel microwave design in its newest microprocessor controlled outdoor motion sensor, the PIRAMID XL2. This unique sensor is 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 XL2 combines 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 PIRAMID XL2'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 Sensors can be field adjusted to determine the exact distance an object must move to initiate an alarm. 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 XL2 to provide high-security, false-alarm-free performance under the most demanding conditions.



*Greenhouses*



*Equipment Yards*



*Lumber Yards*



*Industrial Facilities*



*Military Applications*



## **Video**

A popular configuration is the use of the PIRAMID XL2 sensors with video surveillance and video verification systems. The PIRAMID XL2 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 XL2 is 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.



*Activates Camera Presets*

A very significant consideration in video systems is false-alarm-free performance. Unlike outdoor passive infrared sensors and conventional dual technology sensors, the PIRAMID XL2 is 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 advantage and cost savings. It is also very desirable for 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



**EX - Explosion-Proof**



**MIL - High Security**



**XL2V - Video**



**DIR - Directional Control**



**IND - Indoor**

There are 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.

**EX - Explosion Proof** - The explosion-proof version 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 classifications: Class I, Div. 1 & 2, Groups C, D - Class II, Div. 1 & 2 Groups E, F, G. - Class III - NEMA 7CD, 9EFG.

**MIL - Military** - The MIL versions were introduced to offer enhanced detection capability when compared to the standard PIRAMID versions. The 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.

**DIR - Directional Control** - The Directional Control versions of PIRAMID offer a field adjustable switch to control the detection of a target based on the direction of movement. 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.

**IND - Indoor** - This is a special indoor version of the PIRAMID XL2 designed to accommodate the most hazardous indoor locations. The IND version 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.

**XL2V - Video** - The XL2V versions of the PIRAMID feature an expanded outdoor housing for the internal mounting of a video camera. The PIRAMID 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.

**(800) 428-9662**

Phone: 775-856-7333 • Fax: 775-856-7658

185 N. Edison Way #1 Reno, NV 89502

www.protechusa.com • email: info@protechusa.com

**Protech**  
Protection Technologies Incorporated