



PIRAMID Intrusion Detection Systems

DUAL TECHNOLOGY MOTION SENSORS



OPERATING PRINCIPLE

PIRAMID intrusion sensors combine PROTECH'S proprietary "Stereo Doppler" Microwave sensor with a dual-element Passive Infrared sensor. Both sensor technologies are configured where they must activate simultaneously to create an overall sensor alarm. The Stereo Doppler Microwave portion activates upon the *movement* of the intruder and the Passive Infrared portion activates on the *change in infrared radiation* caused by the intruder.

FALSE-ALARM-FREE PERFORMANCE PIRAMID SENSORS IGNORE:

- Vibration
- Inclement weather
- Blowing debris
- Randomly moving objects
- Moving vegetation
- Birds and small animals



PIRAMID XL2

OUTDOOR



PIRAMID MIL

OUTDOOR HIGH SECURITY



PIRAMID

INDOOR

PROTECTS COMMERCIAL SITES AND CRITICAL INFRASTRUCTURE

- Unique False-Alarm-Free Performance
- Interchangeable Lens Modules
- Enhanced Bird and Animal Immunity
- Rugged Metal Housing/Weather Shroud

PROTECTS HIGH SECURITY SITES

- High Density Lens Module
- Detects a Crawling Intruder
- USAF Approved PL-I Sites
- HS Version Offers Anti-masking
- Probability of Detection Greater than 0.95
- Low Nuisance Alarm Rate/
False Alarm Rate

PROTECTS MEDIUM TO HIGH SECURITY SITES

- Ignores Vibration and Random Moving Objects
- Interchangeable Lens Modules
- Optional FF-3 Fluorescent Filter Module
- High Density Lens Modules Available
- USAF Approved with Lens D, G, H





PIRAMID M-HS

INDOOR ULTRA HIGH SECURITY

PROTECTS ULTRA HIGH SECURITY SITES

- High Density Lens Modules
- Detects Crawling Intruders
- Optional FF-3 Fluorescent Filter Module
- And Gate/Or Gate Switchable
- Anti-Masking
- Tamper-Proof Mounting



PIRAMID LT

DIRECTION CONTROL

PROTECTS AGAINST CLIMBING INTRUDERS

- Protects Ladders and Towers
- 3-Position Direction Control Switch
 - Approach Mode - Detects Approach
 - Recede Mode - Detects Recede
 - Both Mode - Detects Approach/Recede



PIRAMID EX

EXPLOSION-PROOF

PROTECTS HAZARDOUS LOCATIONS

- Single Technology - Microwave Only
- Housing complies with NEC/CEC location standards
 - Class I, Division I & 2, Groups B, C, D
 - Class II, Division I & 2, Groups E, F, G
 - Class III, NEMA 4, 78CD, 9EFG



Optimum Performance

- **3 parameters of detection:**
 - **Direction of Movement:** sensor can differentiate between approaching and receding motion
 - **Speed of Movement:** "immunity switch" enables immunity to birds and small animals
 - **Distance of Movement:** "Sensitivity Control Switch" adjusts distance of movement required for an alarm
- **Digital Range Control:** adjustment of overall size of the sensor's detection area (Ten-position digital switch)

STEREO DOPPLER MICROWAVE & PASSIVE INFRARED TECHNOLOGY

TECHNOLOGY BENEFITS



HIGHLY RELIABLE



ALL WEATHER PERFORMANCE

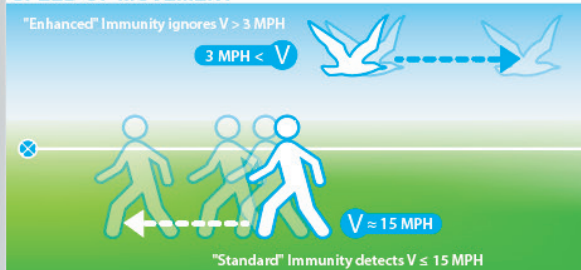


MAXIMUM PROTECTION
Reliable and effective

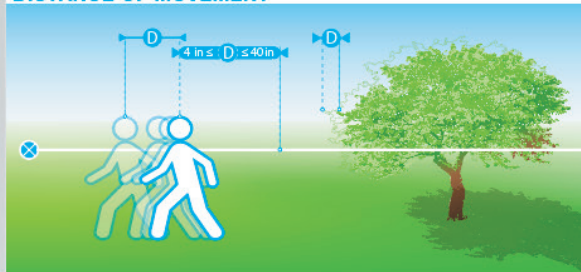
DIRECTION OF MOVEMENT



SPEED OF MOVEMENT



DISTANCE OF MOVEMENT



PROTECH MANUFACTURER OF PERIMETER INTRUSION DETECTION SYSTEMS FOR SENSITIVE SITES

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