

Optimum Performance

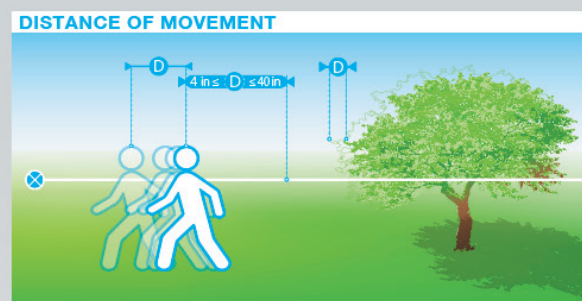
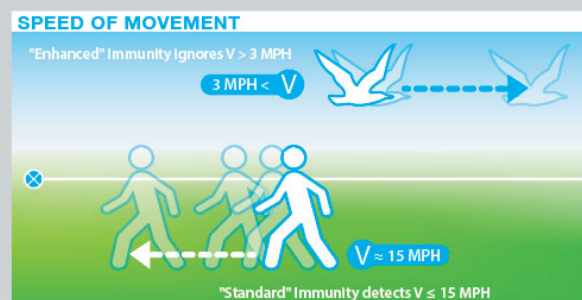


STEREO DOPPLER MICROWAVE & PASSIVE INFRARED TECHNOLOGY

- **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)

TECHNOLOGY BENEFITS

-  **HIGHLY RELIABLE**
-  **ALL WEATHER PERFORMANCE**
-  **MAXIMUM PROTECTION**
Reliable and effective



PIRAMID Intrusion Detection Systems

DUAL TECHNOLOGY MOTION SENSORS



PROTECH MANUFACTURER OF PERIMETER INTRUSION DETECTION SYSTEMS FOR SENSITIVE SITES

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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

PIRAMID M-HS

INDOOR ULTRA HIGH SECURITY

PIRAMID LT

DIRECTION CONTROL

PIRAMID EX

EXPLOSION-PROOF

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

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

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

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

