



## Outdoor Intrusion Detection Systems

# PIRAMID XL-DIR

Outdoor Motion Sensor with Direction Control



MW-DIR / MW-VD



XL-DIR

## Overview

The Direction Control Versions of the PIRAMID XL 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.

## Applications

There are three different versions of the Direction Control **PIRAMID XL**. Each version varies somewhat in detection capabilities

1. Models **SDI-76XL-DIR** and **SDI-77XL-DIR** are dual technology sensors combining Stereo Doppler Microwave and Passive Infrared sensors. The independent sensor technologies are "And Gated" and must activate simultaneously to create an overall sensor alarm. The detection parameters are set up to detect pedestrians and intruders.
2. Models **SDI-76XL-MW-DIR** and **SDI-77XL-MW-DIR** are single technology sensors using Stereo Doppler Microwave. The detection parameters are set up to detect pedestrians or intruders.
3. Models **SDI-76XL-MW-VD** and **SDI-77XL-MW-VD** are single technology sensors using Stereo Doppler microwave that are best for detecting vehicles. This version comes in both a wide and narrow pattern and will detect vehicles (cars) at distances of approximately 100 ft.

# FEATURES

- **Stereo Doppler Microwave Sensor** - Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of false alarms.
- **Microprocessor Controlled** - Proprietary integrated circuit design provides enhanced digital signal processing for both microwave and passive infrared technologies.
- **Stereo Doppler Supervision** - Self-checking circuitry ensure proper performance is maintained.
- **Master LED** - Displayed on the face of the unit indicating the alarm relay status.
- **Analytic LEDs** - Alarm and environmental caution LEDs for Stereo Doppler Microwave and Passive Infrared portions are displayed on the face of the sensor. An internal switch can disable analytic LEDs.
- **Metal Housing** - Rugged and durable; 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

## TECHNICAL SPECIFICATIONS

Input Voltage	10.5 VDC to 28 VDC
Current Consumption	100 mA at 12 VDC (LEDs off)
RF Power Density	120 uW/cm <sup>2</sup> max. at the face of the unit
Operating Temperature	-40°F to 158°F / -40°C to 70°C
Operating Humidity	0 to 100% relative humidity
Relay Contact Rating	100 mA / 50 V
Frequency Bands	10.525 GHz USA; International 10.587 GHz / 9.90 GHz / 9.47 GHz

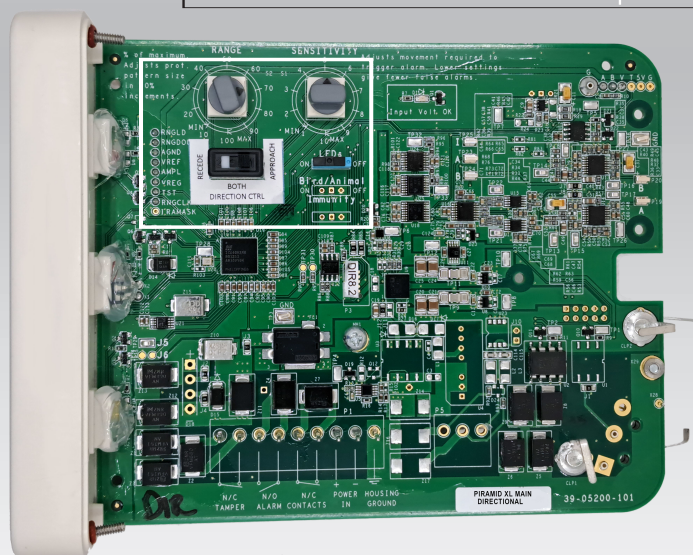
## ORDERING INFORMATION

SDI-76XL-DIR	Directional Dual Technology Sensor - Wide Angle - 50 ft.
SDI-77XL-DIR	Directional Dual Technology Sensor - Narrow Angle - 100 ft.
SDI-76XL-MW-DIR	Directional Microwave Sensor - Wide Angle - 50 ft.
SDI-77XL-MW-DIR	Directional Microwave Sensor - Narrow Angle - 100 ft.
SDI-76XL-MW-VD	Directional Microwave Vehicle Sensor - Wide Angle - 100 ft.
SDI-77XL-MW-VD	Directional Microwave Vehicle Sensor - Narrow Angle - 100 ft.

## Mounting Options

Sensor comes with PH-6L Bracket

PH-4	1.5" to 4.5" Diameter Pole mount for PIRAMID
PH-4A	4.5" to 8.5" Diameter Pole mount for PIRAMID



Enlarged Directional Switch Selector