



MULTI STABILIZED OUTDOOR DETECTOR

VX-40/40A

(Voice Warning Model)

Sequentially Confirmed Alarm

Function Contained

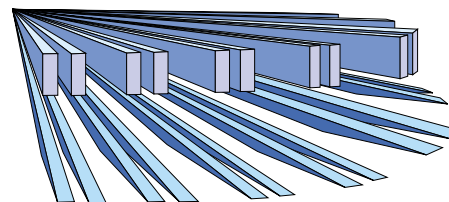


Introducing the Most Innovative Idea in Outdoor Detection.

OPTEx's Advanced "MDP" (Multiple Detection Pattern) Technology.

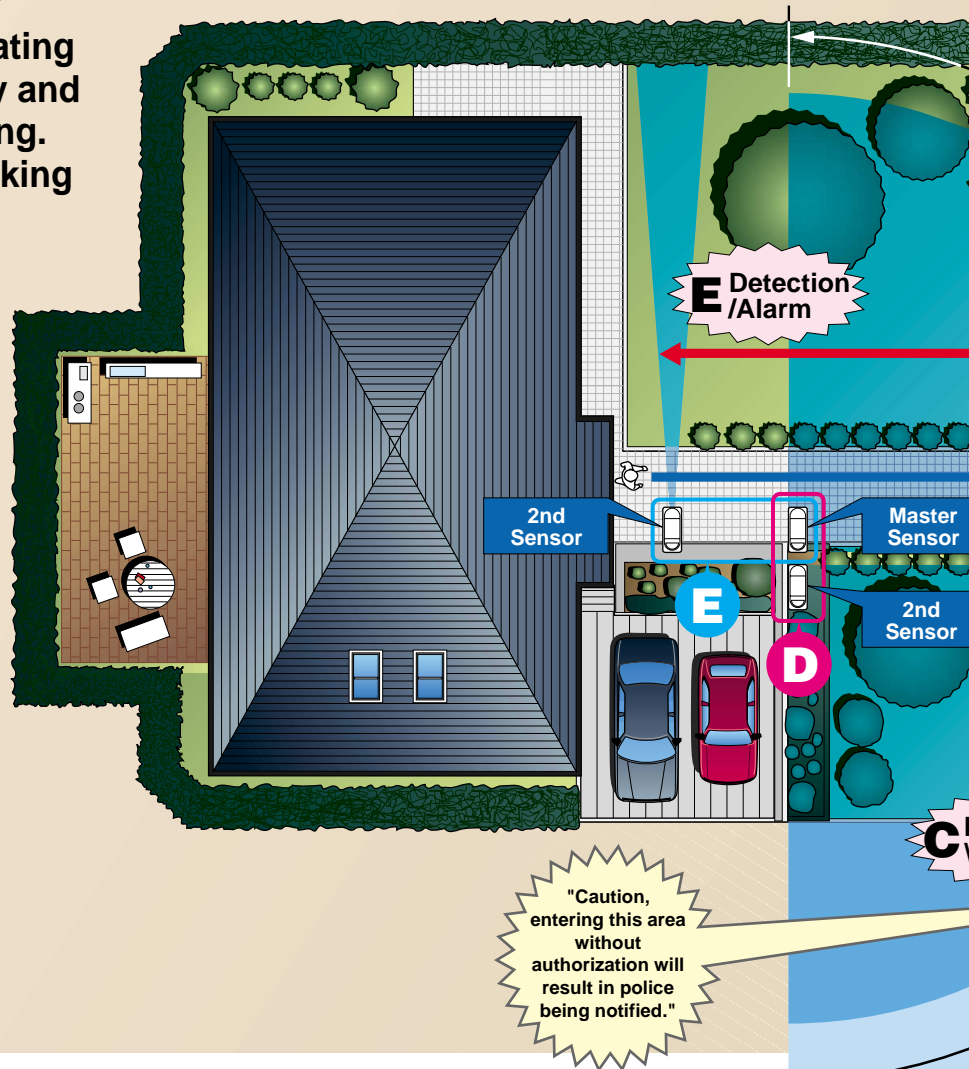
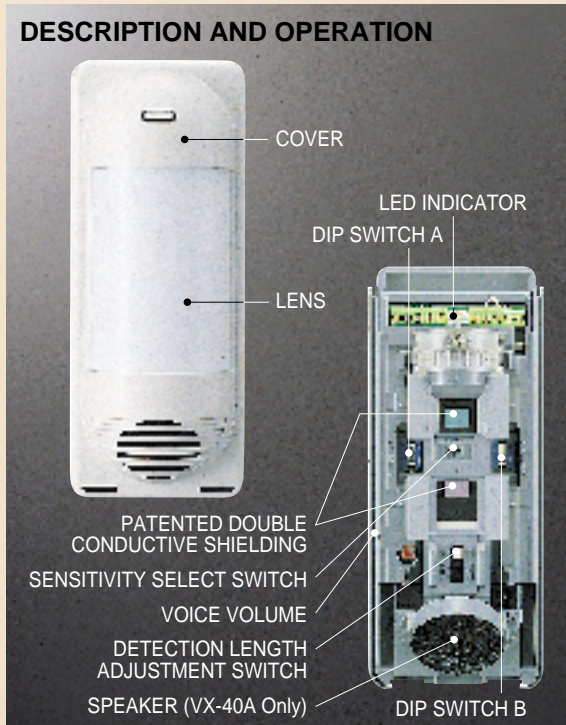
OPTEx's advanced PIR technology takes a giant leap into the future of outdoor detection. Our Patented Design allows this sensor to adapt to many different applications and offer reliable detection and unique deterrent capability.

The VX-40 Series has unique technology which makes it absolutely the most stable Outdoor Sensor which utilizes Passive Infrared Technology. Designed to provide Reliable Performance, Ease of Installation and Multiple Applications for the Dealer and End User, the VX-40 allows your customer the ability to utilize Perimeter Awareness in their home or business.



Feel Secure Inside with Reliable Outdoor Detection

The VX-40 provides the first line of defense against intrusion by activating when someone enters the property and deterring them with a verbal warning. The result is a safer living and working environment.



1 The Highest Reliability Available in Outdoor Detection

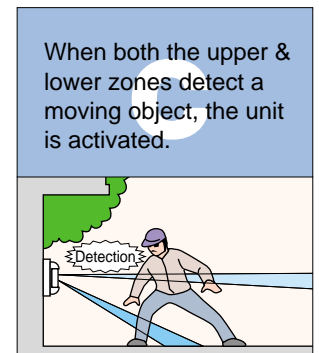
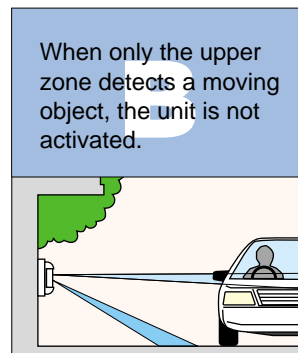
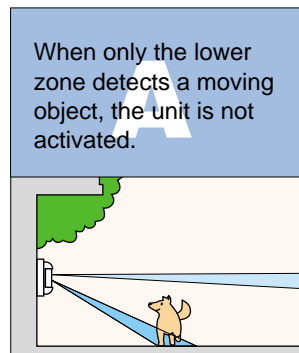
The patent pending "MDP" Technology eliminates the chance of a false alarm caused by moving objects or small animals within the detection area. The VX-40 includes the first Layered Detection Pattern which provides logic for discrimination of objects in the detection area. The upper zone stays parallel to the ground at all times and the lower zone is adjustable from 6.7ft. (2.0m) to 40ft. (12m). Only when both upper and lower zones are activated will the VX-40 generate an alarm.

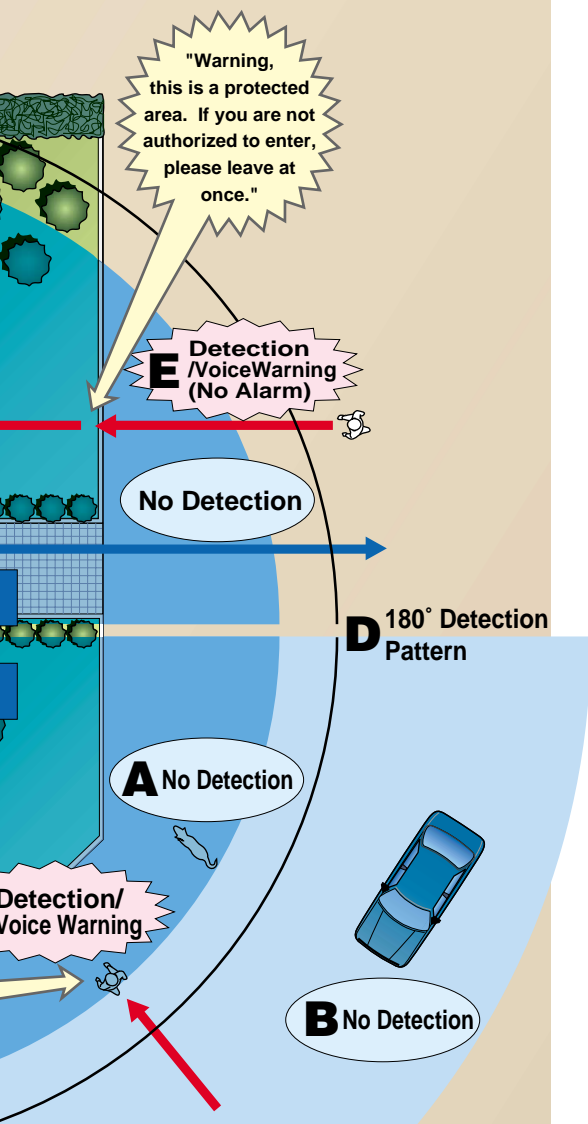
Limited Detection Range Function

The detection range of the VX-40 can be limited to avoid detecting unwanted objects. By limiting detection range, false alarms due to unwanted movement (i.e. cars, persons or animals outside the protected area) can be reduced.

Size Judging Function

The VX-40 is designed to discriminate between large and small objects. By utilizing this ability, false alarms due to small animals can be virtually eliminated.





2 Easy Installation

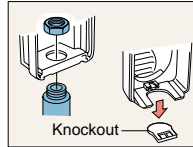
Installation of the VX-40 has been simplified by the addition of a conduit access in the bottom of the unit. You can conveniently install the VX-40 anywhere since it can be wired either through a conduit access in the bottom of the unit or through a wiring access on the back of the unit. In addition, rubberized grommets increase the resistance of the sensor to the attack of natural elements.

■ Wiring Convenience

Wiring can enter the sensor from the top or the bottom, making installation quick and easy.

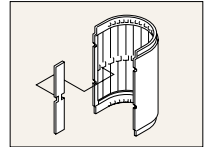
■ Built-In Conduit Entry

A conduit can be installed directly into the bottom of the unit by removing the knockout on the cover.



■ Area Masking Plate

Unwanted detection area(s) can be easily eliminated by attaching supplied masking plates.



■ Area Angle Adjustment

The detection area can be adjusted 45 degrees left or right from center to allow for custom applications of the sensor.

3 Extensive Application

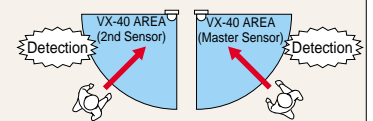
By connecting to additional detectors such as PIRs, Active IR Beams or Magnetic Contacts, the VX-40 can provide additional features without the use of any special control panel. Self-contained functions can offer not only higher reliability but also the ability to be utilized in various applications.

■ Detection Area Extension Function

Wiring two VX-40 sensors together and selecting the "OR" Mode will allow the detection pattern to be effectively doubled.



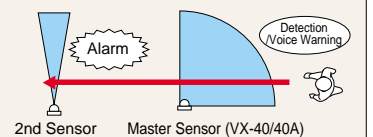
Application Example 1



■ Directional Detection Function

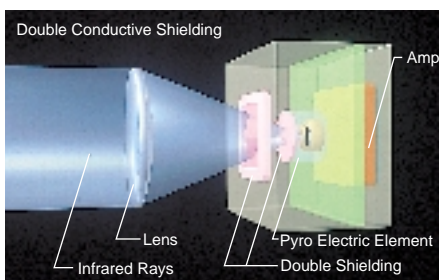
The VX-40 can also be used in conjunction with another sensor to create even greater stability. By selecting the "AND" Mode and programming which sensor should be activated first (DIP Switch Programming), the VX-40 can sense direction and will activate only if motion is in a specified direction.

Application Example 2



■ Bright Light Disturbance Immunity with Double Conductive Shielding

The VX-40 is equipped with Patented Double Conductive Shielding Technology. A special conductive filter covers the element window allowing infrared energy to pass through while blocking and grounding out light and RFI sources.



- Highly Durable Housing & Lens
- Weather Proof Structure (IP54)

■ Sequentially Confirmed Alarm Contained

With this option selected, an alarm will only be generated if two detectors activate sequentially and separately. This function dramatically increases the reliability of the system. It is no longer necessary to reduce sensitivity or parallel sensors together. The logic is all internally controlled.

4 Other Features

- Selectable NC or NO Alarm Output
- Temperature Compensation Circuit
- Illuminance Sensor
- Day-Night Mode
- Sensitivity Adjustment: L, M or H
- LED ON/OFF Switch
- Selectable Pulse Count: 2 or 4
- Spare Terminals

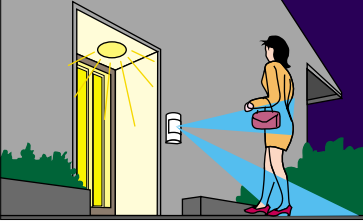
5 Voice Warning Function (VX-40A Only)

When the system is armed, the Voice Warning Feature (Weatherproof speaker inside sensor) delivers one of two types of voice messages to anyone entering the protected area. This warning is designed to deter a would-be intruder from continuing toward the protected area.

Various Applications

The VX-40 is equipped to provide Directional Access Control features. Applications for this technology include opening an automatic gate when approached from one direction, counting cars or people going one direction through an area and not counting those going the other way.

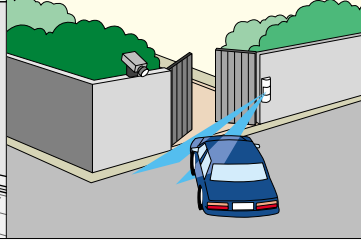
Light Control System
Turns on outside lights when returning home after dark.



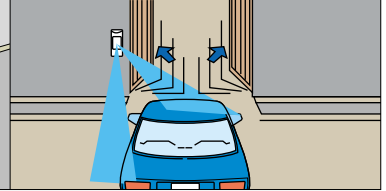
Pool Side Alert
Helps to prevent accidents by activating when children go near the pool.



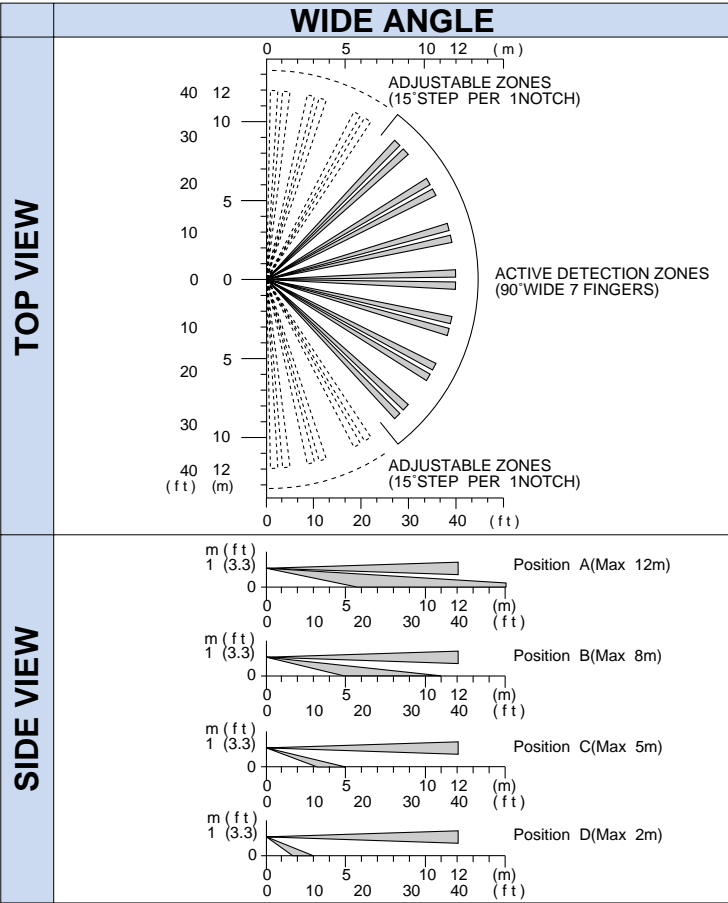
Outdoor Camera Activation
Activates an outdoor camera whenever a person or car is detected.



Automatic Gate Control
Automatically opens the gate when a car approaches from inside and warns people outside the gate to reduce chance of injury.



DETECTION PATTERNS



Length of lower finger decides detection length. The upper detection finger stays parallel to the ground all the time while the lower detection finger moves as shown above depending on the switch position. Consequently, the length of the detection area is limited by the length of the lower finger since both upper and lower fingers have to be blocked at the same time to activate the sensor.

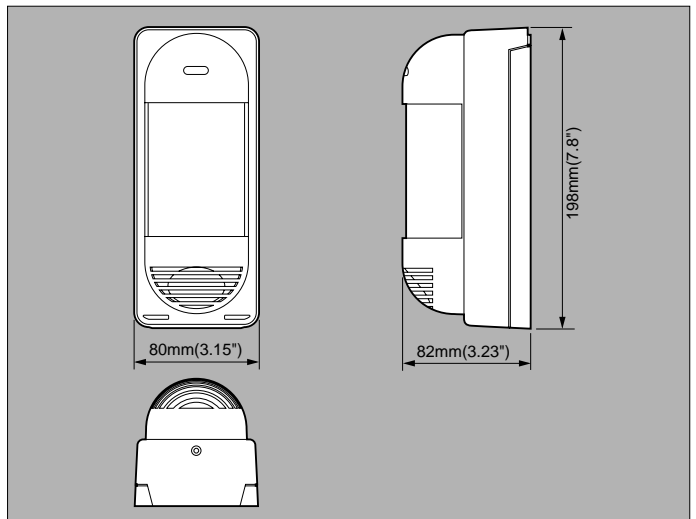
*Specifications and design are subject to change without prior notice.

NOTE: This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. This product conforms to the category "Residential, Commercial and Light Industry" of EMC Directive 89/336 EEC.

SPECIFICATIONS

MODEL	VX-40	VX-40A
Detection Method	Passive Infrared	
Coverage	12m (40ft) 90° wide	
Detection Zones	14 zones	
Mounting Height	0.8 ~ 1.2m (2.7 ~ 4ft)	
Sensitivity	1.6°C (3°F) at 0.6m/s (2ft/s)	
Detectable Speed	0.3 ~ 1.5m/s (1 ~ 5ft/s)	
Power Input	9.5 ~ 18VDC	
Current Draw	NC Normal 25mA Max 28mA	Normal 25mA Max 180mA
	NO Normal 10mA Max 35mA	Normal 12mA Max 200mA
Alarm Period	2±1sec	
Alarm Output	Selectable NC/NO:28VDC 0.2A Max	
Tamper Switch	NC Opens when cover removed	
Pulse Count	20±5sec 2 or 4	
Warm-up Period	Approx 30sec (LED blinks)	
LED Indicator	LED is blinking during warm-up period Alarm condition	
Weatherproof	IP54	
Operating Temperature	-20 ~ +50°C (-4 ~ +122°F)	
Environment Humidity	95% Max	
RF Interference	NO Alarm 30V/m	
Mounting	Wall, Pole, Conduit and Electrical Box	
Weight	550g (19.4oz)	
Standard Accessories	Pole Mount Kit, Screw Kit, Area Masking Plate	

DIMENSIONS



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