



MULTI STABILIZED OUTDOOR DETECTOR

VX-402REC/402/402R

(voice recording &
warning model)

(standard
model)

(battery
operated model)

Warning,
you have entered
an unauthorised area



- Reliable Short-Range Detection for External Areas
- Ideal for Event Driven CCTV Applications
- Two Detection Zones for Superior Stability
- Any Message Recordable for Each Application in Any Language (VX-402REC)
- Simple wire free installation, with battery operation (VX-402R)

The VX-402 Series

— New Solutions for Outdoor Protection —

Voice Recording / Warning Functions

(VX-402REC only)

The VX-402REC provides great flexibility in detector-activated voice applications. As well as the ability to record any message in any language, with its superior playback settings, it allows the right message to be played in every situation.

Easy Voice Recording



By using either the built-in microphone or external recording equipment such as a PC, the VX-402REC allows two messages of up to eight seconds to in length to be recorded.

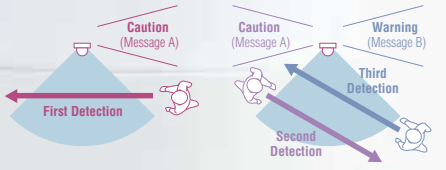
Voice Warning Function



Once recorded, the two messages can be delivered in one of four different playback sequences.

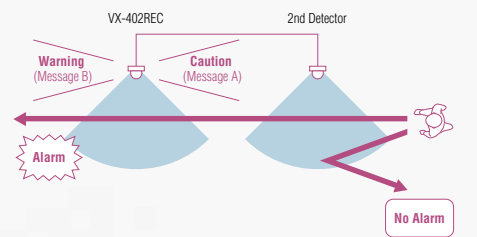
Sequential Playback

When the VX-402REC first detects someone in the area, it delivers a caution message. If someone is detected in the same area a second time within 30 seconds of the first message being given, it is repeated. On a third detection within 30 seconds, the caution message automatically changes into a warning message.



Directional Detection Playback

When the VX-402REC is used with another detection device such as an outdoor PIR, active photobeam or a magnetic contact, different messages can be set to make double sure intruders are deterred. The caution message is generated at the first detection, and the warning message generated at the second detection.



Day/Night Message Playback

Changes the message automatically in daytime and nighttime, for example giving a welcome message in daytime and an alert message at night.

Arm/Disarm Playback

Provides a caution alert when the Arm Mode is on, for example when deterrence is intended, and gives a different message when disarmed.

External Speaker Terminal

The VX-402REC has a voice output terminal allowing an external speaker to be connected. The most common applications for this are either when a high-volume announcement is needed or when the best position for the speaker is away from the detector unit.

A Variety of Applications

- Intruder Prevention: An alarm is activated when an intruder enters the property or prohibited area.
- Warning Alert: A safety warning is activated. For example, when children go near a dangerous area such as a swimming pool.
- Shop Entrance: A welcome message is given when customers enter a premises.

Improved False Alarm Protection for Stable Reliability

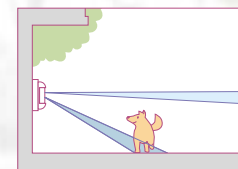
The VX-402 Series utilises Multiple Detection Pattern Technology — two double-layered detection patterns (upper and lower) both have to be activated to generate an alarm condition. This reduces false alarms, particularly those caused by temperature changes, light reflection and small animals.

Flexible Detection Range Function

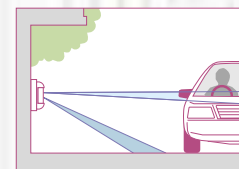
By limiting the detection range, false alarms due to unwanted movement, e.g., cars, people or animals outside the protected area can be reduced.

Size Judging Function

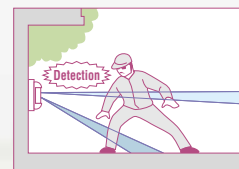
The size judgment function virtually eliminates false alarms due to small animals.



When only the lower zone detects a moving object, the unit is not activated.



When only the upper zone detects a moving object, the unit is not activated.



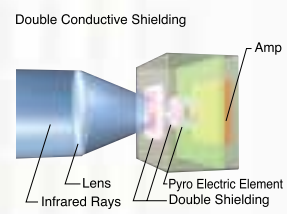
When both the upper & lower zones detect a moving object, the unit is activated.

Advanced Temperature Compensation

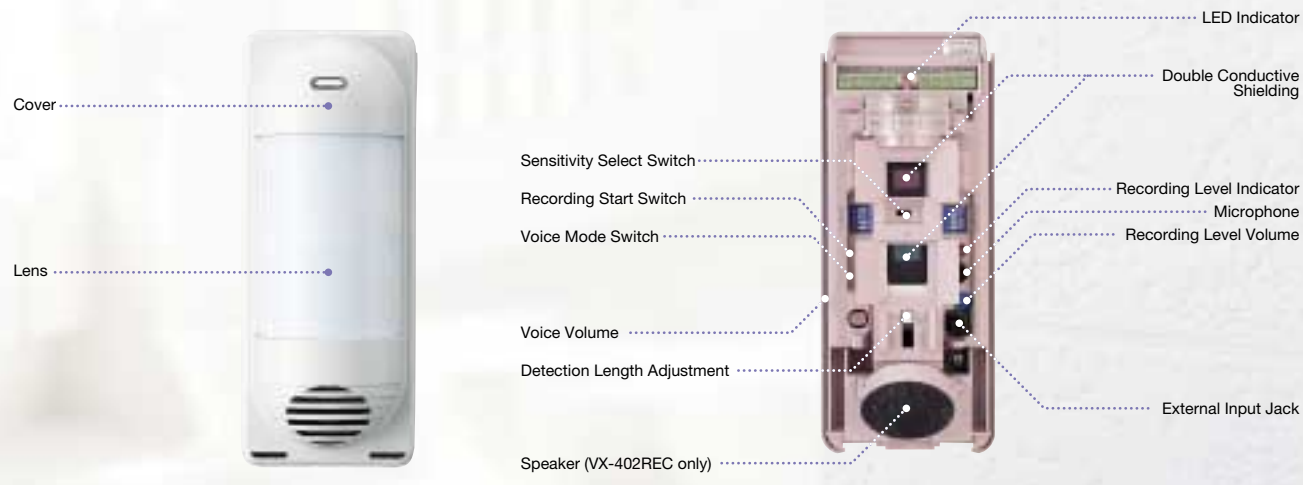
At higher ambient temperatures, the difference between the background temperature and that of a human body is reduced. In such cases an ordinary PIR might fail to accurately detect the human body. The VX-402 uses advanced temperature compensation to automatically increase the detector's sensitivity under high temperature conditions, especially where the background temperature ranges from 35-37°C, close to that of the human body.

Double Conductive Shielding

Patented Double Conductive Shielding Technology utilises a special conductive filter to cover the element window, allowing infrared energy to pass through, while blocking and grounding out unwanted light and RFI sources. This helps reduce false alarms caused by car headlights and reflected sunlight in particular.



DESCRIPTION AND OPERATION (VX-402REC)



Battery Operated

(VX-402R)

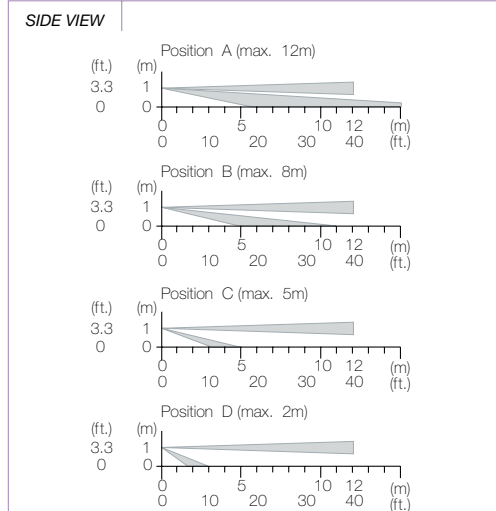
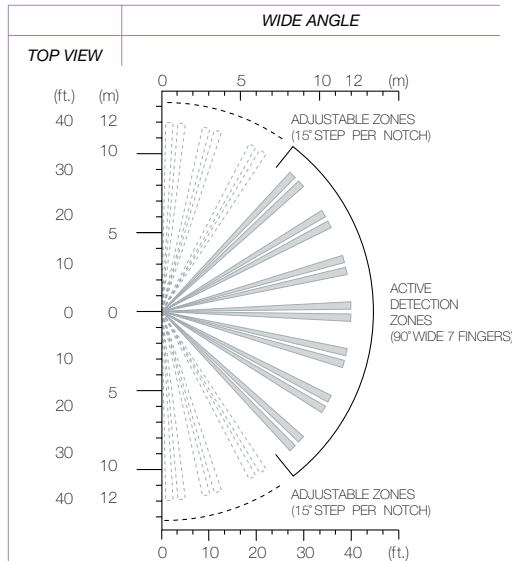


The battery operated VX-402R allows for low cost simple outdoor installation, whilst providing exceptional detection capability.

- | **Battery Saving Circuit**
- | **Temperature Compensation**
- | **Form C Alarm Output and Tamper Output**
- | **Low Current Draw**

* Transmitter is not included. Use the commercially available transmitter.

DETECTION PATTERNS



*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

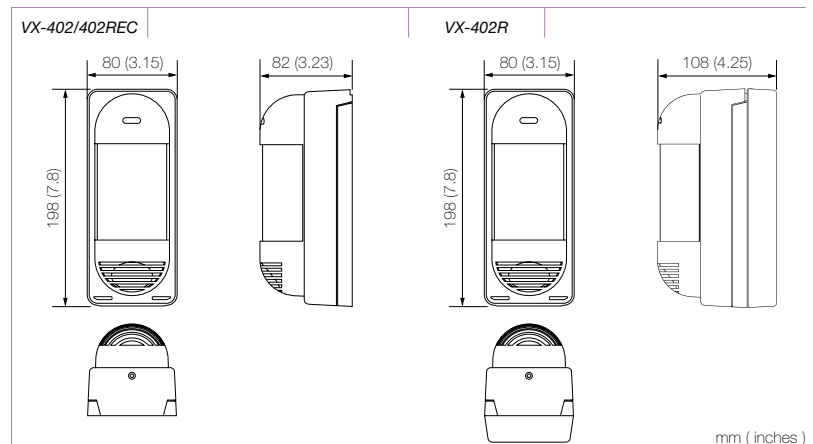
| MODEL | VX-402REC | VX-402 | VX-402R |
|-----------------------|---|--|--|
| Detection Method | Passive Infrared | | |
| Coverage | 12m (40ft.) 90° wide | | |
| Detection Zones | 14 zones | | |
| Mounting Height | 0.8~1.2m (2.7~4ft.) | | |
| Sensitivity | 2.0° C (3.6° F) at 0.6m/s | | |
| Detectable Speed | 0.3~1.5m/s (1~5ft./s) | | |
| Power Supply | 9.5~18V DC | | |
| Current Consumption | Normal 25mA max. 180mA (N.C.) Normal 12mA max. 200mA (N.O.) | Normal 25mA max. 28mA (N.C.) Normal 10mA max. 35mA (N.O.) | Max 3mA (Walktest, LED on) 10uA (Standby) |
| Alarm Period | 2 ± 1 sec. | | |
| Alarm Output | Selectable N.C./N.O.: 28V DC 0.2A max. | | |
| Tamper Switch | N.C. Opens when cover removed | | |
| Pulse Count | 20 ± 5 sec. 2 or 4 | | |
| Warm-up Period | Approx. 30sec. (LED blinks) | | |
| Volume of Audible | 75dB | | |
| LED Indicator | LED is blinking during warm-up period Alarm condition Recording condition | | |
| Weatherproof | IP54 | | |
| Operating Temperature | -20~+50° C (-4~+122° F) | | |
| Operating 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 | | |

Recommended external speaker

| | | |
|---------------|-------------|--|
| Impedance | 8 ohm | |
| Max. Power | over 30W | |
| Output S.P.L. | over 80dB/m | |
| Wiring Length | 10m | |

* Speaker with amplifier can not be used * Only one external speaker can be connected

DIMENSIONS



mm (inches)



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