

Wireless Outdoor PIR Detector

OPT-VXI-R

Passive Infrared Detector with 12m PIR Coverage



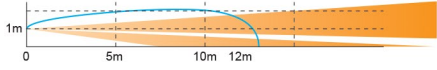
Features

- Wireless ready
- Flexible detection patterns
- Area defining masking seals
- Double conductive shielding
- Sensitivity adjustment switch
- Digital double layer detection
- Super multidimensional analysis (SMDA logic)

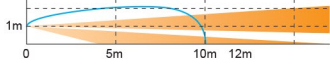
Detection Area

SIDE VIEW (Detection Distance by Positions)

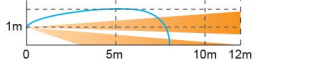
Position 1 : Approx. 12m/40ft (Default)



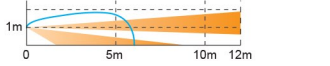
Position 2 : Approx. 8.5m/27.9ft



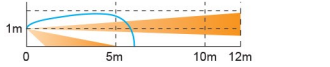
Position 3 : Approx. 6.0m/19.7ft



Position 4 : Approx. 3.5m/11.5ft

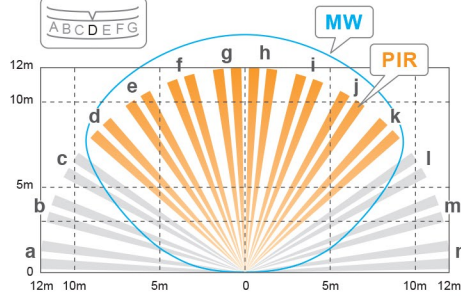


Position 5 : Approx. 2.5m/8.2ft

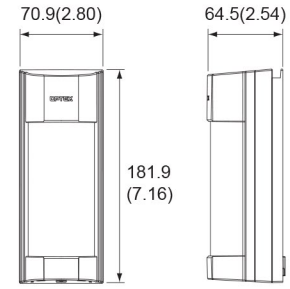


The actual detection distance is dependent on the thermal conditions within the given environment.

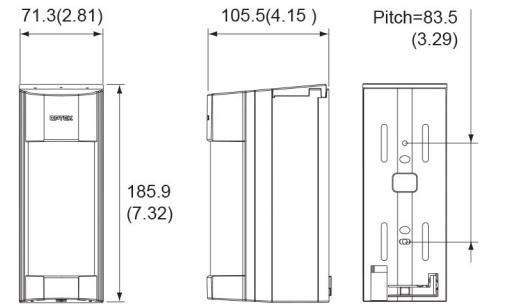
TOP VIEW (Area diagram for D position)



Without a back box (VXI-ST / AM / DAM)



With a back box



Unit:mm(inch)

Specifications

Model	VXI-R
Detection method	Passive infrared
PIR coverage	12.0 m (40 ft) wide / 16 zones
PIR distance limit	12 - 2.5 m (5 levels)
Detectable speed	0.3 - 1.5 m/s (1 - 5 ft/s)
Sensitivity	2.0°C (3.6°F) at 0.6 m/s (2 ft/s)
Power input	3 - 9 V DC(Lithium or Alkaline Battery)
Current draw	9µA (standby) / 4 mA (max) at 3 V DC
Alarm period	2.0 ±1 sec.
Warm-up period	Approx. 60 sec. (LED blinks)
Alarm output	N.C. / N.O. Selectable-Solid State Switch 10 V DC 0.01 A (max)
Trouble output	N.C. / N.O. Selectable-Solid State Switch 10 V DC 0.01 A (max)
LED indicator	Disable: During normal operation. Enable: During WALK TEST or LED SW on. Red: Warm-up, alarm, masking detection (VXI-RAM only)
RF interference	No alarm 10 V/m
Operating temperature	-20 - +60°C (-4 - +140°F)
Environment humidity	95% max.
International protection	IP55
Mounting	Wall, Pole (Outdoor, Indoor)
Mounting height	0.8 - 1.2 m (2.64 ft - 3.94 ft)
Weight	500 g (17.7 oz.)
Accessories	Connector for POWER and ALARM, Connector for TROUBLE, Screw (4×20mm) ×2, Masking seal ×3

Options

VXI-T-Bracket



*VXI-DAM and VXI-RDAM can not be used due to microwave interference.

BATTERY BOX (RBB-01)



*Battery not included.
CR123A x 3(3.0VDC)
CR2 x 3(3.0VDC)
1/2AA x 3(3.6VDC)
1/2AA x 6(7.2VDC x 3)*

*3.6 VDC 1/2 AA battery in series.

Wall Tamper (WRS-02)

for ST, AM, DAM models



Wall Tamper (WRS-04)

for R, RAM, RDAM models

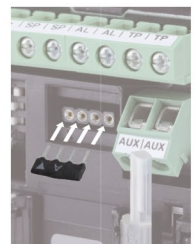


*Not applicable for a use of a set of dual technology models (DAM & RDAM).

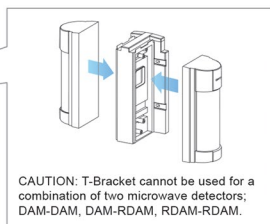
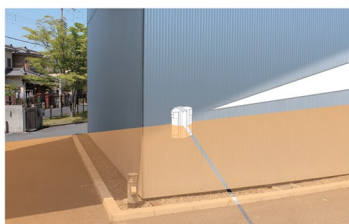
Plug in EOL(End of line) Resistor Modules

for wired models

Different values of EOL resistances can be instantly set by plugging in optional modules. Please refer to the relevant control panels manual to confirm matching resistance values.

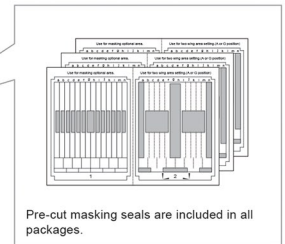


Flexible Detection Patterns



Optional 180 degree arrangement

To cover a wider field, optional T-Bracket enables two VXI detectors join to form a single detection zone



5 pre-cut masking seals for area configurations

Optimal different detection pattern can be configured by a quick application of an assigned masking seal onto the VXI lens

OPT-VXI-R Specifications

VXI reduced its profile size and increased its aesthetic appeal to be adapted at various installation sites.

Wireless Ready

A wireless transmitter of your choice can be accommodated in VXI-R/RAM/RDAM models. These models consume minimum electrical current* from a battery. Optional battery box (RBB-01) can expand the battery capacity to prolong an operation period.

*As low as 9 micro amperage at a standby.

Wireless Trigger Life Time* Reference		
VXI	R, RAM	RDAM
CR123 (3VDC 1300mAh)	Approx 6 years	Approx 4 years
CR2 (3VDC 750mAh)	Approx 4 years	Approx 2 years

*WLT is an approximation based on hypothetical condition operated with settings: LED(OFF), AM(ON), Battery Saving Timer(120sec)

EOL Module Socket

Optional EOL(End of line) resistor modules are available.

Infinity Housing

IP55 Protection
UV Resistant ASA Body



IP55



Anti UV Protection



Multipurpose Back Box

Wireless transmitter installation



Conduit installation

with RBB-01


Pitch diameter $\phi 21$ (0.82)

mm (inch)

Tough Mod 2™ (for DAM and RDAM models)

	VX Infinity series	Conventional
Images		
PCB board Material	Ceramic	Glass epoxy
Antenna Material	Gold-plated	Tin-plated

OPTEX Tough Mod™ Technology enables a long-time sustainability of Dual-detection technology. Gold-plated Tough Mod increases durability of a detector to withstand hot and humid climates. Now, Tough Mod 2 extends the capability of Dual-detection to battery operated detectors with energy saving circuits.



Tough Mod.2™

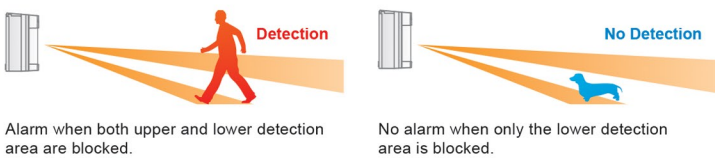
Flexible Detection Area Setting

5 Levels of Detection Distance Adjustment 8 Horizontal Area Positions

Digitally Enhanced Reliability

Digital Double Layer Detection

Both an upper and a lower detection areas must simultaneously be crossed to generate an alarm. The detections are independently analyzed so that a misleading coincidence of events can be filtered out. This technology virtually eliminates detections of smaller animals in the premises.



SMDA logic (Super Multidimensional Analysis)

All VXI models are equipped with a digitally enhanced signal recognition logic called SMDA. SMDA improves immunity against various noise factors such as climate changes and vegetation sways. VXIs expands applicable fields and reliability beyond what VX-402 was capable.

