

MULTI DIMENSIONAL OUTDOOR DETECTOR

# VX Infinity<sup>TM</sup> series

## WIRED MODELS

- VXI-ST** : 12m flexible wide detection range
- VXI-AM** : ST with Anti-masking feature
- VXI-DAM** : ST with AM and Microwave technology

## BATTERY OPERATED MODELS

- VXI-R** : Battery operated ST
- VXI-RAM** : Battery operated AM
- VXI-RDAM** : Battery operated DAM

# EXTEND THE FIELD OF SECURITY



## Example of Applications



Residential Environment



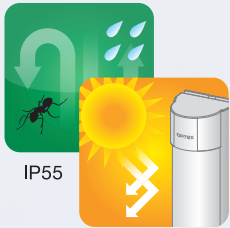
Warehouse



Power Station



# ADVANCED MULTIDIMENSIONAL



IP55

Anti UV Protection

## Basic Performance ALL MODELS

- IP55
- Double Conductive Shielding
- Advanced Temperature Compensation Logic
- Utility Back Box
- Plug in EOL (End of Line) resistors ready (Wired model only)
- UV resistant ASA body.
- SMDA Logic for environmental noise immunity
- Vegetation Sway Analysis for Microwave
- N.C./N.O. Selectable Alarm output



Digital Analysis™

## Double Layer Detection ALL MODELS



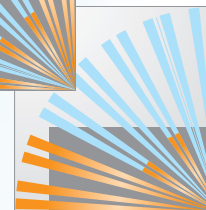
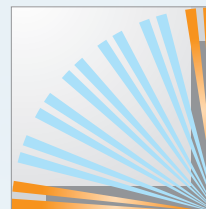
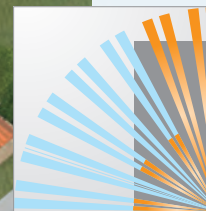
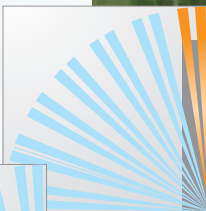
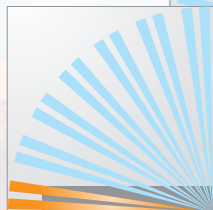
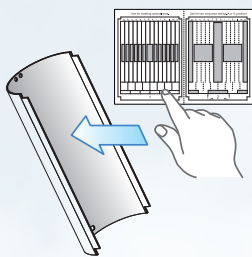
Both upper and lower detection areas are triggered



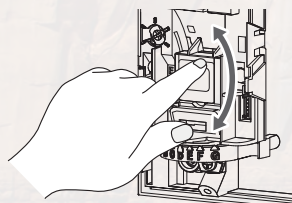
Only lower detection area is triggered

## POWER of FLEXIBILITY ALL MODELS

5 types of pre-cut masking seals included for optional configurations

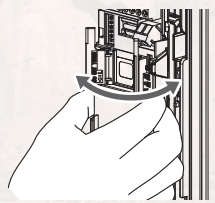


### 5 Levels of Detection Length Adjustment



Adjust the PIR detection length by sliding the lower PIR to the desired position.

### 7 Positions of Horizontal Area Adjustments



### Various Mounting Capability



Wall Mount



Pole Mount



Utility Back Box



Adaptable Metal Band



# AL DETECTOR



WIRELESS READY

## Battery Operation VXI-R, VXI-RAM, VXI-RDAM

Wireless ready "R-models" have a super low power consumption electrical circuit. OPTEX technology enabled not only IR Anti-Masking function but also Microwave Detection technology to be integrated into battery operated detectors.

Optional Accessory "RBB-01" accommodate extra batteries in VX-Infinity R-models providing extended operation life time.

Wireless Trigger Life Time*		
VXI	R, RAM	RDAM
CR123 (3VDC 1300mAh)	<b>6 years</b>	<b>4 years</b>
CR2 (3VDC 750mAh)	<b>4 years</b>	<b>2 years</b>

\* Life Time calculation based on  
LED:OFF, AM:ON, Battery Saving Timer:120sec



Masking Buster™

## Active IR Digital Anti-Masking Function VXI-AM, VXI-DAM VXI-RAM, VXI-RDAM

When an object is placed on the lens surface, the IR anti-masking circuit will generate a trouble signal\*

\* performance subject to specifications

System disarmed



Sabotage attempt



Trouble signalled



Tough Mod.2™

## Microwave Detection Assurance VXI-DAM VXI-RDAM

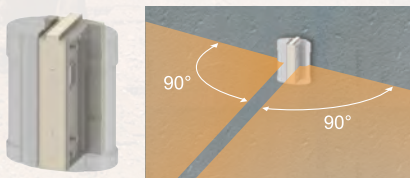
In the toughest outdoor environments, such as harsh sunlight or a sudden flash of light from a vehicle in a distance, the VXI-D models are equipped with microwave detection to ensure stable operation with minimised false alarms. Microwave technology also helps control the range of the device.

Tough Mod.2 enables VXI series to take the advantages of Microwave into a battery operation.



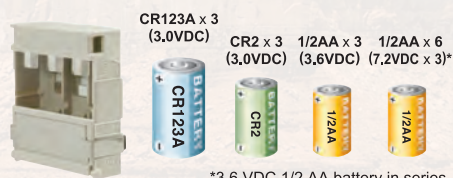
## OPTIONS

### VXI-T-Bracket



Applicable to ST, AM, R, RAM only

### Battery Box



\*3.6 VDC 1/2 AA battery in series.

Applicable to R, RAM, RDAM only

### Wall tamper (WRS-04)



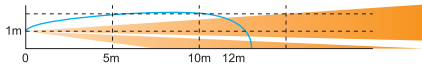
### Wall tamper (WRS-02)



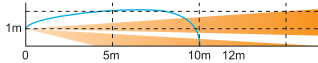
## DETECTION AREA

### SIDE VIEW

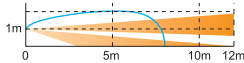
Length limiting position 1 (Default)



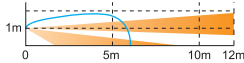
Length limiting position 2



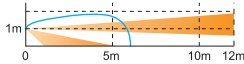
Length limiting position 3



Length limiting position 4



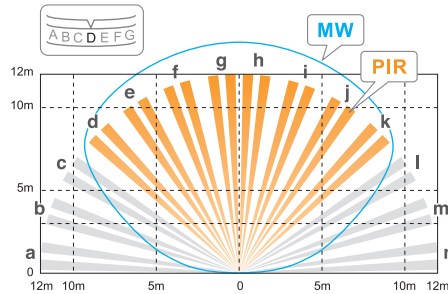
Length limiting position 5



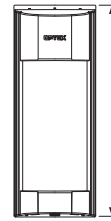
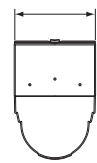
The maximum detection length may vary due to various thermal conditions of the surroundings.

### TOP VIEW

Area diagram of horizontal position D

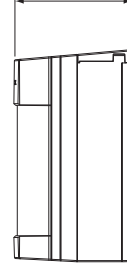


71.3(2.81)

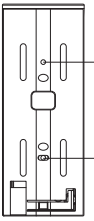


186(7.32)

105.5(4.15)



Pitch=83.5  
(3.29)



Unit:mm(inch)

## SPECIFICATIONS

Model	VXI-ST	VXI-AM	VXI-DAM
Detection Method	Passive infrared		Passive infrared & Microwave
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	9.5 - 18 V DC		
Current Draw	20 mA (max) at 12 V DC	24 mA (max) at 12 V DC	35 mA (max) at 12 V DC
Alarm Period	2.0 ±1 sec.		
Warm-up Period	Approx. 60 sec. (LED blinks)		
Alarm Output	N.C. / N.O. Selectable 28 V DC 0.1 A (max)		
Trouble Output	N.C. 28 V DC 0.1 A (max)		
Tamper Output	N.C. 28 V DC 0.1 A (max) open when cover removed.		
LED Indicator	Red: Warm-up, alarm, masking detection (VXI-AM only)		Red: Warm-up, alarm, masking detection. Yellow: Warm-up, MW detect.
RF Interference	No alarm 10 V/m		
Operating Temperature	-30 - +60°C (-22 - +140°F)		-20 - +45°C (-4 - +113°F)
Environment Humidity	95% max.		
Weatherproof	IP55		
Mounting	Wall, Pole (Outdoor, Indoor)		
Mounting Height	0.8 - 1.2 m (2'7" - 3'9")		
Weight	500 g (17.7 oz.)		600 g (21.2 oz.)
Accessories	Screw (4x20 mm) x2, Wiring sponge x3, Masking seal x3		

Model	VXI-R	VXI-RAM	VXI-RDAM
Detection Method	Passive infrared		Passive infrared & Microwave
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	10µA (standby) / 4 mA (max) at 3 V DC	18µA (standby) / 8 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)		Disable: During normal operation. Enable: During WALK TEST or LED SW on. Red: Warm-up, alarm, masking detection. Yellow: Warm-up, MW detect.
RF Interference	No alarm 10 V/m		
Operating Temperature	-20 - +60°C (-4 - +140°F)		-20 - +45°C (-4 - +113°F)
Environment Humidity	95% max.		
Weatherproof	IP55		
Mounting	Wall, Pole (Outdoor, Indoor)		
Mounting Height	0.8 - 1.2 m (2'7" - 3'9")		
Weight	500 g (17.7 oz.)		600 g (21.2 oz.)
Accessories	Connector for POWER and ALARM, Connector for TROUBLE, Screw (4x20mm) x2, Masking seal x3		

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



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