

180 degree PANORAMIC OUTDOOR DETECTOR

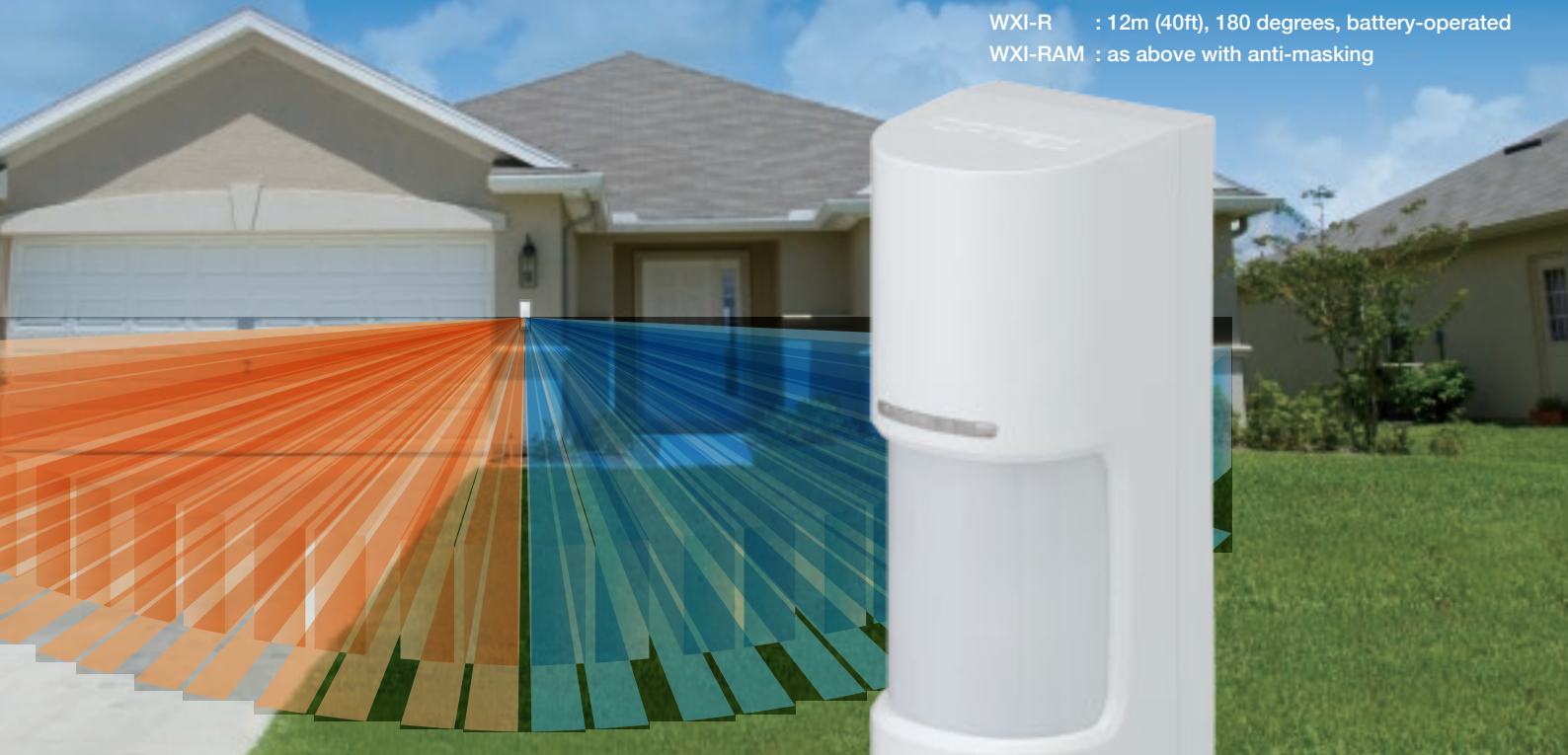
WX Infinity series

WIRED MODELS

WXI-ST : 12m(40ft), 180 degrees, standard
WXI-AM : as above with anti-masking

BATTERY OPERATED MODELS

WXI-R : 12m (40ft), 180 degrees, battery-operated
WXI-RAM : as above with anti-masking



External sensing you can rely on

The OPTEX WXI series is a family of external intrusion detection sensors built upon years of proven experience. The series uses both analogue and digital technologies to detect approaching intruders before they gain access into residential or commercial premises. With its comprehensive 180° field of view and capabilities to adapt its settings to the environment, the WXI series provides an effective outdoor detection solution suitable for new and existing security systems.

180 degree wall-to-wall coverage

Adjustable detection areas with customised masking ability



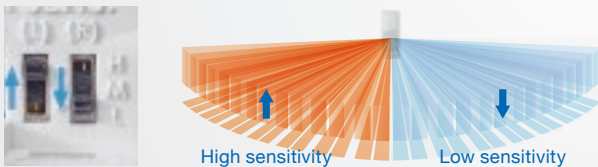
Individual left/right settings

Individual alarm outputs

The WXI features two completely independent 90 degrees detection areas (left and right), triggering independent alarm outputs which is very useful for PTZ activation, direction recognition and changing detection pattern by day and night with a control panel.

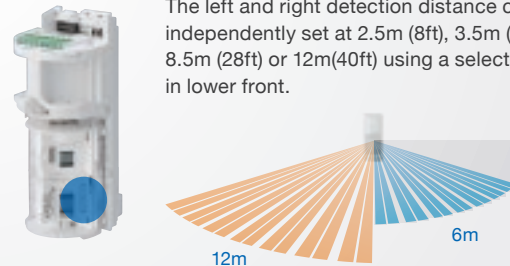
Individual sensitivity settings

Detection sensitivity can be individually set to High, Medium or Low for the left and right detection areas, using the corresponding switches.



Independent detection areas

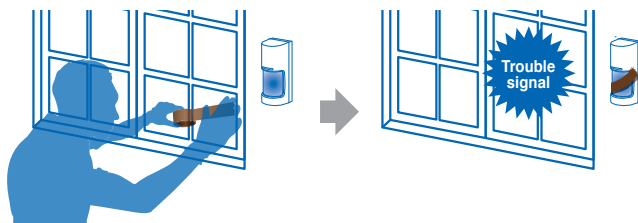
The left and right detection distance can be independently set at 2.5m (8ft), 3.5m (12ft), 6.0m (20ft), 8.5m (28ft) or 12m(40ft) using a selector switch located in lower front.



Reliability

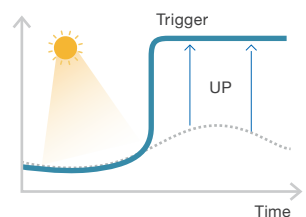
Self-learning IR digital anti-masking function

WXI detects objects covering the lens surface. IR digital anti-masking function adjusts a trigger level of trouble outputs generated by masking. Both emitting and receiving level of IR LED are optimized in real time to different environmental conditions. This enables stable monitoring of the status of lens surface.



Sunlight disqualification

The trigger level for the anti-masking is automatically adjusted when sunlight is too strong.



Raindrop and insect resistance

The WXI series is resistant to raindrops, insects and spiders.



AND logic function to reduce false alarms

WXI only triggers an alarm signal when both upper and lower detection areas detect movement.



SMDA logic (Super Multidimensional Analysis)

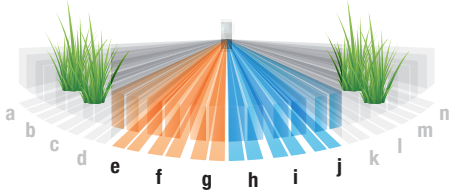
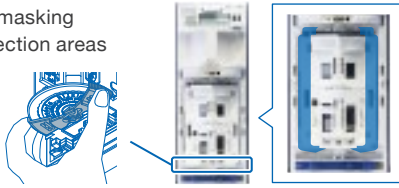
Optex's SMDA algorithm can differentiate between various noise factors such as climate changes, vegetation sways and genuine intrusions.



Easy and flexible detection area settings

Area masking shutter

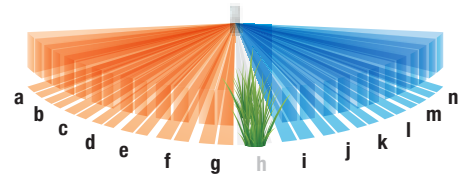
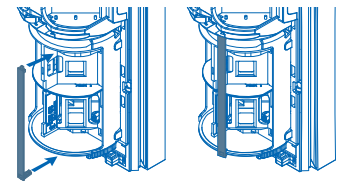
By rotating the sliding masking shutter, the size of detection areas can be changed.



Picture showing the masking shutter positioned on "d" for the left detection area and k for the right area. The areas a-d and k-n are masked.

Area masking plate

Unwanted detection areas can be masked by optional area masking plate (MKP-01).



When a MKP-01 is set on position h, detection area h is masked.

Mechanical features

EOL module socket (WXI-ST, AM only)

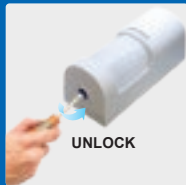
Optional EOL (end of line) resistor modules are available.

Wide LED window

Wide and bright LED for a recognition from a distance.

Screw free design

You can open / close the front cover and remove / insert the main unit without any screws. It contributes to reduction of installation time



Easy opening



Remove main unit



Insert main unit



Auto lock

Back tamper

A tamper output is generated when the unit is removed from the wall.

Pole mount plate (option PMP-01)

Suitable for a metal band up to 23 mm (1 inch) in width.



Automatic walk test
It automatically begins when you close front cover and ends after 3 minutes.

Applications



For residential



For rooftop



For substation

Other common features for all models

- Double conductive shielding
- Cover tamper

Web based manual for wired models

<http://navi.optex.net/manual/50196>



Web based manual for battery operated models

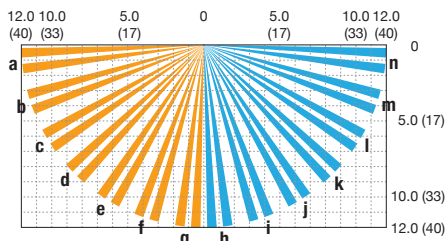
<http://navi.optex.net/manual/50198>



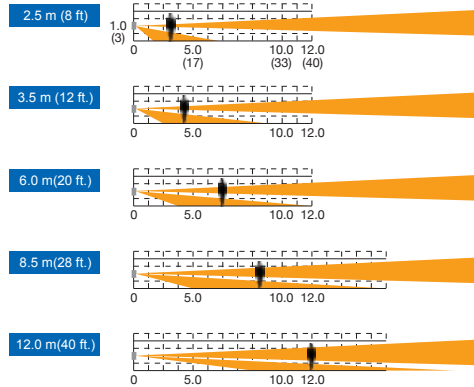
Coverage

Unit: m (ft.)

Top view



Side view

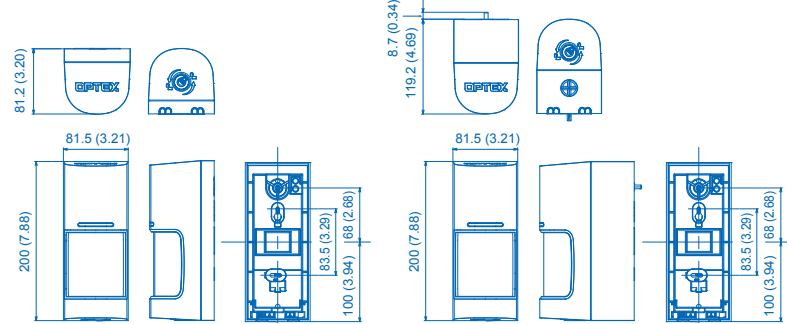


Dimensions

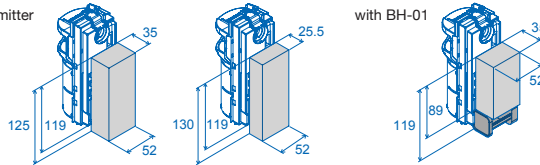
Unit: mm (inch)

Wired Model

Battery-Operated Model



Wireless transmitter and battery



Options



Plug-in EOL (PEU)

Pole mount plate (PMP-01)

Battery holder (BH-01)

Back box (WXI-BB)

Area masking plate (MKP-01)

Specifications

| Model | WXI-ST | WXI-AM | WXI-R | WXI-RAM |
|--|--|--|--|--|
| Detection method | Passive infrared | | Passive infrared | |
| PIR coverage | 180° wide | | 180° wide | |
| PIR zones | Horizontal 14 pairs, vertical 2 layers | | Horizontal 14 pairs, vertical 2 layers | |
| PIR distance limit | From 2.5m to 12m adjustable | | From 2.5m to 12m adjustable | |
| Detectable speed | 0.3 to 2.0 m/s (1' to 6'7"/s) | | 0.3 to 2.0 m/s (1' to 6'7"/s) | |
| Sensitivity | 2.0 °C (3.6°F) at 0.6 m/s Selectable for each side individually | | 2.0 °C (3.6°F) at 0.6 m/s Selectable for each side individually | |
| Power input | 9.5 to 18 VDC | | 3 to 3.6 V DC lithium batteries | |
| Current draw | 21 mA max. at 12 VDC | 23 mA max. at 12 VDC | 15 µA stand-by 4 mA max. at 3 V DC except walk test | 16 µA stand-by 4 mA max. at 3 V DC except walk test |
| Alarm period | 2.0 ±1 sec. | | 2.0 ±1 sec. | |
| Warm-up period | 60 sec. or less (LED blinks) | | 60 sec. or less (LED blinks) | |
| Alarm (R) output | 28 VDC 0.1 A max. [Individual; Right or General], [N.O. or N.C.] are selectable | | Solidstate switch, 10 V DC 0.01 A max. [Individual; Right or General], [N.O. or N.C.] are selectable | |
| Alarm (L) output | 28 VDC 0.1 A max. [Individual; Left or General], [N.O. or N.C.] are selectable | | Solidstate switch, 10 V DC 0.01 A max. [Individual; Left or General], [N.O. or N.C.] are selectable | |
| Trouble output | - | N.C. 28 VDC 0.1 A max. | Solidstate switch, 10 V DC 0.01 A max. [N.O. or N.C.] is selectable | |
| Tamper output | N.C. 28 VDC 0.1 A max. Open when either the cover, main or base unit is removed | | Tamper output is shared with trouble output. | |
| LED indicator (DIP switch ON or Walk test) | Red LED ; 1. Warm-up 2. Alarm | Red LED ; 1. Warm-up 2. Alarm 3. Masking detection | Red LED ; 1. Warm-up 2. Alarm | Red LED ; 1. Warm-up 2. Alarm 3. Masking detection |
| Operation temperature | -30 °C to +60 °C (-22°F to +140°F) | | -30 °C to +60 °C (-22°F to +140°F) except batteries | |
| Environment humidity | 95% max. | | 95% max. | |
| International protection | IP 55 | | IP 55 | |
| Mounting | Wall, Pole (Outdoor, Indoor) | | Wall, Pole (Outdoor, Indoor) | |
| Mounting height | 0.8 to 1.2 m (2'7" to 4') | | 0.8 to 1.2 m (2'7" to 4') | |
| Weight | 420 g (14.8 oz.) | 440 g (15.5 oz.) | 600 g (21.2 oz.) | |
| Accessories | Mounting screw (4 x 20 mm) x 2, lock screw x 1 | | Connector for POWER and ALARM (R), Connector for ALARM (L) Connector for TROUBLE, Velcro tape Mounting screw (4 x 20 mm) x 2, Lock screw x 1 | |

Unit: years (approx.)

- Specifications and designs are subject to change without prior notice.
- These units are designed to detect 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.

| | WXI-R | | WXI-RAM | |
|---------------------------|-------|-----|---------|-----|
| Interval (sec.) | 120 | 5 | 120 | 5 |
| CR123A (3V DC, 1300 mAh) | 5 | 3.5 | 5 | 3.5 |
| CR2 (3V DC, 750 mAh) | 3 | 2 | 3 | 2 |
| 1/2AA (3.6V DC, 1000 mAh) | 4 | 2.5 | 4 | 2.5 |



OPTEX CO.,LTD. (JAPAN)

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