Coverage

Unit: m (ft.)

Top view

Side view

- 2.5 m (8 ft)
- 3.5 m (12 ft.)
- 6.0 m (20 ft.)
- 8.5 m (28 ft.)
- 12.0 m (40 ft.)

Dimensions

Unit: mm (inch)

Wired Model

Battery Operated Model

Wireless transmitter & battery

with BH-01

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	2.5 to 12 m (Stepless adjustment)		2.5 to 12 m (Stepless adjustment)	
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 max. at 3 V DC except walk test	16 µA stand-by 4 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	

- 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.

Unit: years (approx.)

	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
Sensing Innovation

WX Infinity Series

180° Panoramic Outdoor Detector

Wired Model

WXI-ST   : 40ft(12m), 180° coverage, standard
WXI-AM   : With anti-masking

Battery Operated Model

WXI-R   : Battery operated 40ft(12m), 180° coverage
WXI-RAM   : With Anti-masking

Comprehensive Exterior Sensing Solution

The OPTEX WXI Series is a family of external sensors built upon our years of proven experience. The series utilizes both analog and digital technologies to detect approaching intruders before they gain access into your protected area.

With its comprehensive 180° field of view and capabilities to tailor its settings to meet the environment around your premise, the WXI Series will provide an effective solution for new and existing security systems.

180° Wall-to-Wall Coverage

Complete coverage & flexibility to eliminate blind spots

Individual Left/Right Settings

Individual Alarm Outputs

An installation of a WXI values 2 detectors because it triggers alarm signals both left and right side individually So it's useful for PTZ activation, direction recognition and changing detection pattern by day and night with a CP.
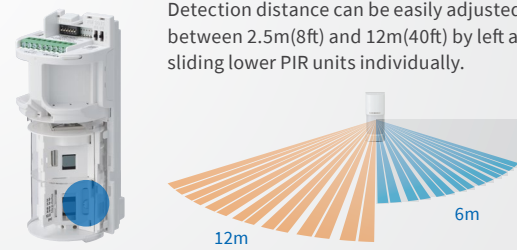
Individual Sensitivity Setting

Detection sensitivity can be set to High, Medium and Low by left and right switches individually.

High sensitivity   Low sensitivity
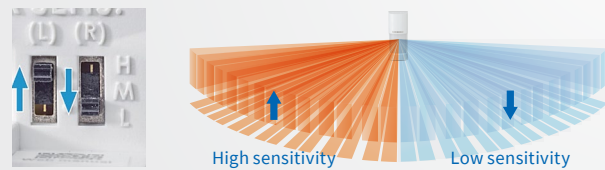
Individual Detection Area Size

Detection distance can be easily adjusted between 2.5m(8ft) and 12m(40ft) by left and right sliding lower PIR units individually.

12m   6m

Reliability

Self-Learning IR Digital Anti-Masking Function

WXI detects covering objects on lens surface. IR digital anti-masking function optimizes trigger level of trouble outputs generated by masking depends on status of lens surface. A well-calibrated adjustment for both of emitting and receiving level of IR LED fluctuating by temperature contributes to stable anti-masking.

Trouble signal
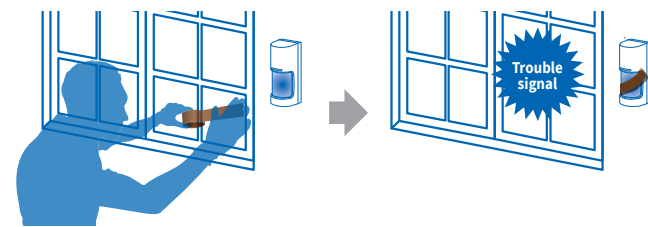
Sunlight canceling

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

Trigger
UP
Time
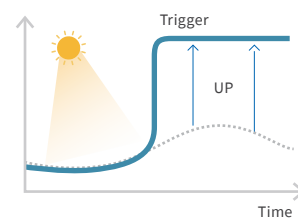
Rainwater and insect canceling

Small objects such as a spider or rainwater can be cancelled.

AND Logic Function To Reduce False Alarms

WXI only triggers an alarm signal when both upper and lower detection areas detect movement.
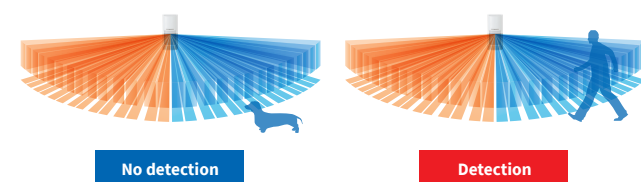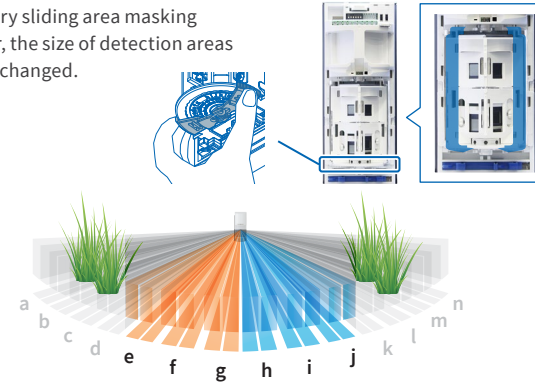
No detection   Detection

SMDA Logic (Super Multidimensional Analysis)

It can differentiate among various noise factors such as climate changes and vegetation sways and genuine intrusions.

etc.

No detection   Detection

Easy And Flexible Detection Area Settings

Area Masking Shutter

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

a b c d e f g h i j k l m n

When area masking shutter's position is that Left is d and right is k, detection area a-d and k-n are masked.

Area Masking Plate

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

a b c d e f g h i j k l m n
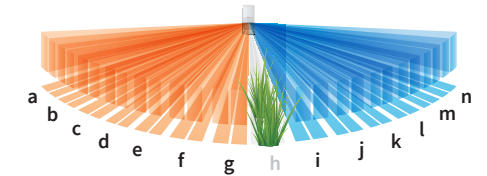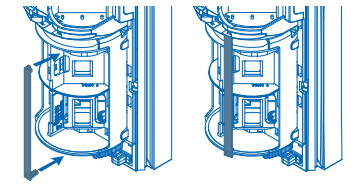
When a MKP-01 is set on position h, detection area h is masked.

Mechanical Features

EOL module socket (WXI-ST, AM only)
Optional EOL (end of line) resistor modules are available.

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

Wide LED window
Wide and bright LED for a recognition from a distance.

Pole mount plate (option PMP-01)
Suitable for a metal band up to 23 mm (1 inch) in width.

Screw free design
You can open / close front cover and remove / put main unit without any screws. It contributes to reduction of installation time

UNLOCK   PULL   PUSH

Easy open   Remove / put main unit   Auto lock

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

Applications

For residential   For rooftop   For substation

Basic Common Features
•Double conductive shielding
•Cover tamper