

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 to12m 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.	16 μA stand-by 4 mA max.
			at 3 V DC except walk test	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.		Solidstate switch, 10 V DC 0.01 A max.	
	[Individual;Right or General], [N.O. or N.C.] are selectable		[Individual;Right or General], [N.O. or N.C.] are selectable	
Alarm (L) output	28 VDC 0.1 A max.		Solidstate switch, 10 V DC 0.01 A max.	
	[Individual;Left or General], [N.O. or N.C.] are selectable		[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.C. 28 VDC 0.1 A max.		[N.O. or N.C.] is selectable	
Tamper output	N.C. 28 VDC 0.1 A max.		Tamper output is shared with trouble output.	
	Open when either the cover, main or base unit is removed			
	Red LED; 1. Warm-up	Red LED; 1. Warm-up	Red LED; 1. Warm-up	Red LED; 1. Warm-up
LED indicator (DIP switch ON or Walk test)	2. Alarm	2. Alarm	2. Alarm	2. Alarm
(Diff SWITCH ON OF Walk test)		Masking detection		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 (2	1.2 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 of 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



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# 180 degree PANORAMIC OUTDOOR DETECTOR



# 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.



Adjustable detection areas with customised masking ability

# Individual left/right settings

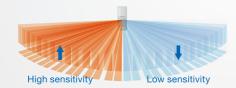
### **Individual alarm outputs**

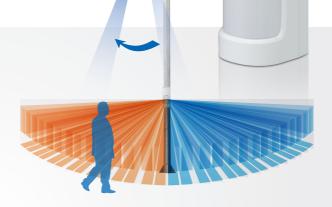
The WXI features two completely independent 90 degrees detection areas (left and right), triggering independent alarm outputs which is very useful for PTZ activation, direction recognition and changing detection pattern by day and night with a control panel.



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**

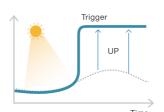
WXI detects objects covering the lens surface. IR digital anti-masking function adjusts a trigger level of trouble outputs generated by masking. Both emitting and receiving level of IR LED are optimized in real time to different environmental conditions. This enables stable monitoring of the status of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





#### Sunlight disqualification

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



#### Raindrop and insect resistance

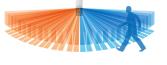
The WXI series is resistant to raindrops, insects and spiders.



# **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.

#### **Mechanical features**



# **Applications**







For rooftop

For substation

#### Other common features for all models

- · Double conductive shielding
- ·Cover tamper

For residential

Web based manual for wired models







