

# 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.



# AND logic function to reduce false alarms

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





#### Sunlight disqualification

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

Raindrop and insect

The WXI series is resistant to raindrops, insects and

resistance

spiders.



### SMDA logic (Super Multidimensional Analysis)

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





No detection

### 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.

## **Mechanical features**

#### 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.



## **Applications**







For residential

For rooftop

#### For substation

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





Other common features for all models

Double conductive shielding

Cover tamper



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.		Tamper output is shared with trouble output.	
	Open when either the cover, main or base unit is removed			
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 (2	21.2 oz.)
			Connector for POWER and ALARM (R), Connector for ALARM (L)	
Accessories	Mounting screw (4 x 20 mm) x 2, lock screw x 1		Connector for TROUBLE, Velcro tape	

Interval (sec.)

CR123A (3V DC, 1300 mAh)

CR2 (3V DC, 750 mAh)

1/2AA (3.6V DC, 1000 mAh)

Mounting screw (4 x 20 mm) x 2, Lock screw x 1

Unit: years (approx.)

5

3.5

2

25

WXI-RAM

120

5

3

4

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.



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WXI-R

5

3.5

2

25

120

5

3

4

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