

FlipX Standard Series

INDOOR SECURITY



FLX-S-ST

PIR

FLX-S-DT

DUAL-TECHNOLOGY

(PIR and MW)

Grade 2 indoor motion detector with flexible lens for residential and light commercial security.

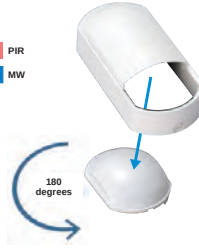
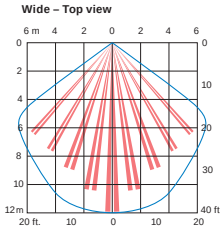
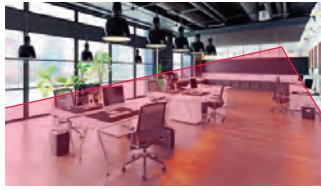
- 12m (40ft.) 85 degree Wide
- 18m (60ft.) Narrow



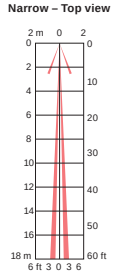
Flexible lens: One lens, two options

Selectable wide and narrow detection with one sensor. Simply switch the lens to change the shape of the detection area best suited to the installation site.

Wide Detection Area



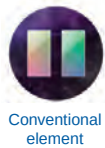
Narrow and Long Detection Area



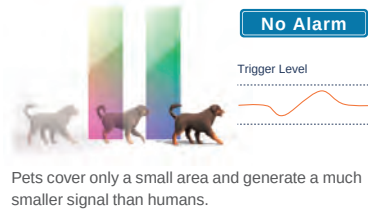
FLX-S-ST model only

Human-catch element and excellent pet immunity

The new element size has been specifically designed to create human-size detection areas and optimise detection sensitivity.



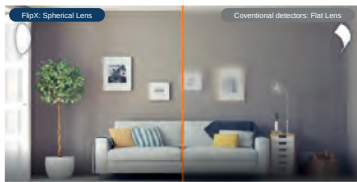
The new element shape is matched for human size.



Pets cover only a small area and generate a much smaller signal than humans.

In addition to the human catch element, FlipX standard models have excellent tolerance to identify temperature changes from small animals and avoid false alarms.

Refined spherical lens and SMDA logic for high-detection performance



OPTEX's indoor sensors are equipped with a specially designed spherical lens which allows for very sharp focus and high-performance detection.

No detection



Detection



OPTEX's SMDA algorithm can differentiate between common causes of nuisance alarms, such as shadows and bright lights, to focus the detection on genuine intrusions.

Specifications

Part name	FLX-S-ST	FLX-S-DT
Model name	Standard	
Mounting height	2.0 to 3.0 m (6'7" to 9'8")	
Coverage	Wide: 12 m (40') 85° Narrow: 18 m (60') 5°	Wide: 12 m (40') 85° (PIR only for Narrow setting)
Sensitivity	1.6°C (2.9°F) at 0.6 m/s (2'/s): 2.4 m (8') mounting height	
Alarm period	2.0 ± 0.5 s	
Warm-up period	Approx. 60 s (LED blinks)	
LED indicator	Green: [1] Warm-up [2] Alarm	
Power input	9.5 to 16 V DC	
Current draw	12 mA max. at 12 V DC	16 mA max. at 12 V DC
Relay output	Alarm	N.C. 24 V DC 0.1 A max.
	Tamper	N.C. 24 V DC 0.1 A max. (Open when the cover is removed)
Remote LED	-	✓
Operation temperature	-20°C to +50°C (-4°F to +122°F)	
Temperature compensation	Digital	
Relative humidity	95% RH max.	
Dimension	H: 130 mm x W: 62 mm x D: 56 mm	
Weight	120 g (4.20 oz)	135 g (4.73 oz)

- 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.

OPTEX
Sensing Innovation
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Ease of installation

Easily viewable LED indicator

180° cover lock

Re-designed LED indicator has been selected for clearer viewing at distance.

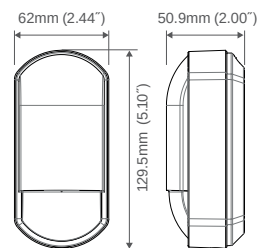


Options

- Wall or Ceiling mount selectable
- Horizontally: +1-45°
- Vertically: -5 to 20° downward



Dimensions



Web based manual
for Standard model



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and West African countries)
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OPTEX SECURITY Sp.z.o.o.
(Eastern Europe, Turkey)
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FlipX Advanced Series

INDOOR SECURITY



FLX-A-AM

PIR WITH ANTI-MASKING

FLX-A-DAM

DUAL TECHNOLOGY WITH
ANTI MASKING

Grade 3 indoor motion detector with flexible lens for high-end, high risk intrusion security.

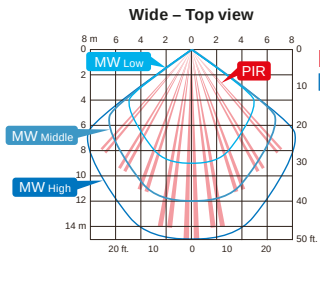
- 15m (50ft.) 85 degree Wide
- 24m (80ft.) Narrow



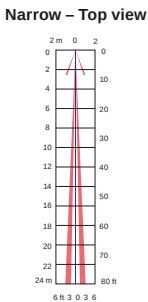
Selectable wide and narrow detection with one sensor

Simply flip the lens to change the shape of the detection area best suited to the installation site.

Wide Detection Area



Narrow and Long Detection Area



PIR mode only for narrow detection

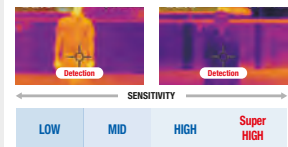
Superior detection performance

A new bespoke pyro has been specifically designed to create human-size detection areas and optimise detection sensitivity. For industry leading performance, FlipX Advanced sensors have a unique algorithm (SMDA) which can learn from the environment to discriminate popular causes of false alarms.



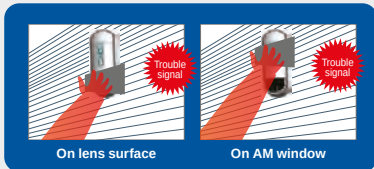
Super high sensitivity

Sensitivity can be set to extremely high to ensure consistent detection even when the temperature difference between the human body and the environment is very small.



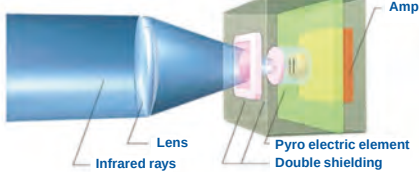
IR Anti-masking

Dual anti-masking feature that protects individually both PIR and microwave sensors generating an alert if they are covered.



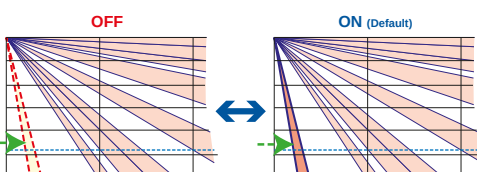
Double conductive shielding

OPTEX patented double conductive shielding allows FlipX Advanced sensors to block RFI and the visible light disturbance from sunlight or strong lamps, to focus on what matters.



Flexible mounting height and selectable look-down area

A selectable 'Down zone' switch allows to create a look down zone below the sensor. And its flexible mounting height between 2 - 3 m means they seamlessly blend into the aesthetics of buildings with higher ceilings.



Specifications

Part name	FLX-A-AM	FLX-A-DAM
Model name	Advanced	
Security grade	EN50131-2-2 (Grade 3)	EN50131-2-4 (Grade 3)
Detection method	Passive infrared	Passive infrared and microwave
Mounting height	2.0 to 3.0 m (6'7" to 9'8")	
Coverage	Wide: 15 m (50 ft.) 85° Narrow: 24 m (80 ft.) 5°	Wide: 15 m (50 ft.) 85° (PIR only for Narrow setting)
Alarm period	2.0 ± 0.5 s	
Warm-up period	Approx. 60 s (LED blinks)	
LED indicator	Multiple: Warm-up / Green: Alarm and Masking detection / Yellow: Self test error / Red: Low voltage	
Power input	9.5 to 16 V DC	
Current draw	16 mA max. at 12 V DC	21 mA max. at 12 V DC
Relay output	Trouble	N.C. 24 V DC 0.1 A max. (Resistive load)
	Alarm	N.C. 24 V DC 0.1 A max. (Resistive load)
	Tamper	N.C. 24 V DC 0.1 A max. (Resistive load) (Open when the cover is removed.)
Remote LED	✓	
Operation temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +45°C (-4°F to +113°F)
Temperature compensation	Digital	
Relative humidity	95% RH max.	
Dimension	H: 159.1 mm x W: 62.2 mm x D: 55.7 mm	
Weight	180 g (6.35 oz)	200 g (7.05 oz)

• 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.

Ease of installation



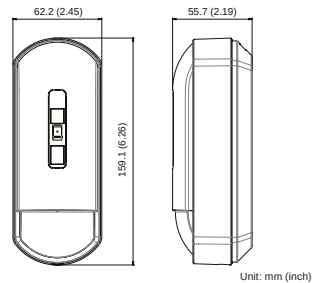
Optional wall or ceiling mount bracket

CW-G3

- Vertically: -5 to 20° downward
- Horizontally: +- 45°
- Wall tamper detection



Dimensions



Unit: mm (inch)

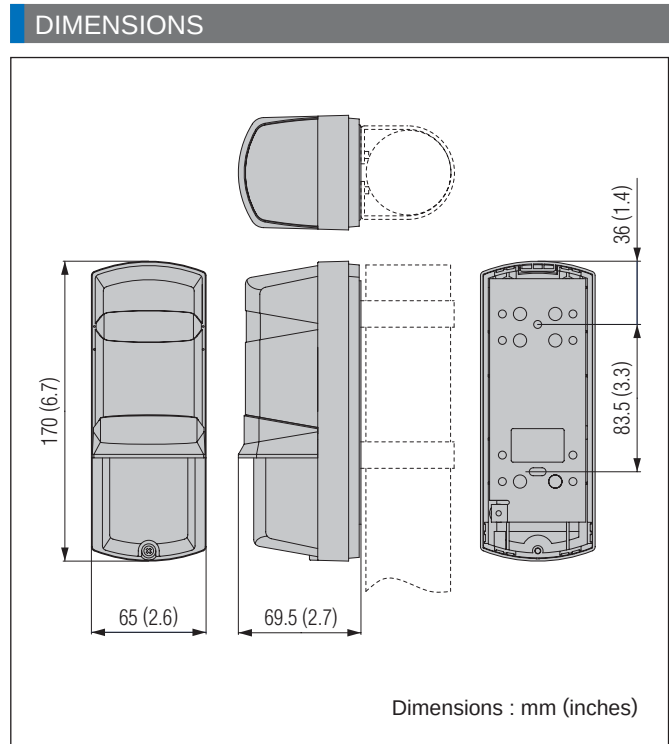


Web based manual
for Advanced model



SPECIFICATIONS					
Model	AX-70TN	AX-130TN	AX-200TN	AX-100TF	AX-200TF
Detection method	Infrared beam interruption detection				
Maximum detection range	20m (70ft.)	40m (130ft.)	60m (200ft.)	30m (100ft.)	60m (200ft.)
Maximum arrival range	200m (700ft.)	400m (1300ft.)	600m (2000ft.)	300m (1000ft.)	600m (2000ft.)
Interruption period	Selectable between 50, 100, 250, and 500m sec.				
Selectable beam frequency				4 channel	
Power supply	10.5 - 28V DC				
Current consumption (transmitter + receiver)	38mA (max.)	41mA (max.)	45mA (max.)	44mA (max.)	48mA (max.)
Alarm period	2sec. (±1) nominal				
Alarm output	N.C. 28V DC, 0.2A (max.)			N.C./N.O. 28V DC, 0.2A (max.)	
D.Q. output				N.C. 28V DC, 0.2A (max.)	
Tamper switch	Opens when cover is removed at 28V DC, 0.2A max.				
Operating temperature	-35°C to +60°C (-31°F to +140°F) Use the optional heating unit (HU-3) in conditions of -25°C (-13°F) or below.				
Operating humidity	95% max.				
Alignment angle	± 90° Horizontal, ± 5° Vertical				
Mounting	Wall and pole mounting				
Weight (transmitter + receiver)	650g (22.9oz.)			700g (24.7oz.)	
Housing protection (EN 00529)	IP65				

*Specifications and design are subject to change without prior notice.
 NOTE: 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. These products conform to the EMC Directive 89/336 ECC.



OPTIONS

HU-3 : Heating Unit
 Heating unit for severe low temperature conditions
 24V DC/AC, 420mA max.
 1 set (2 units)

BC-3 : Back Cover
 Can be used to cover mounting pole.
 1 set (2 units)

PSC-3 : Pole Side Cover
 Cover for installing 2 units to 1 pole.
 1 set (2 units)



SHORT RANGE PHOTOELECTRIC DETECTOR

AX-70/130/200TN

(STANDARD MODEL)

AX-100/200TF

(ENHANCED MODEL)



The Best Short Range Photoelectric Detector

AX-TN/TF series is a compact photoelectric detector with "the IP65 high durability", and "stable detection performance".
 These features reduce false alarms drastically caused by outdoor severe environmental changes and provide a wide range of applications.



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 Shenzhen office(CHINA)

*"Take Care of the Environment" This catalogue uses recycled paper No. 75107-01-14931-0703

The best short range photoelectric detector from OPTEX



OPTEX succeeded to strengthen the basic performance and ability of photoelectric detector to reduce false alarms under severe outdoor environments.

The rubber packing for wiring hole prevents rain, dust, and tiny insects from getting into the unit and the widely designed optical pitch maximizes the detection principle of twin beam.

IP65 structure with high sealing rubber packing

Rubber packing is used for all conceivable points where water or dust may penetrate, such as wiring holes, wire ports and the outer chassis. Prevention from dust, bugs and water delivers performance with higher reliability against false alarms and breakdowns.

IP65

- Waterproof.**
Protected against water jets from any direction
- Dust-tight.**
No ingress of dust.
- International Protection Code.**
It shows the degrees of protection provided by enclosures.



5 degrees of water conditions were used to evaluate the protection against water

Tests were conducted using a water jet stream that applied 12.5 liters/min of water at a distance of approximately 3 meters for roughly 3 minutes. This test was directly applied to the chassis of the AX-TN and TF series.

The tests resulted with the AX-TN/TF unit undamaged due to the highly durable IP65 rated structure. It aids in the prevention of water damage to the unit while keeping the detector operating accurately in outdoor environments.



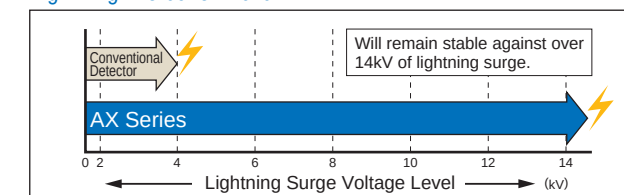
Anti-frost hood cover

A hood is installed to prevent frost forming on lower beams. It also makes the maintenance easy because the surface of the cover is flat.

Lightning protection

An improved Electro-Magnetic Interference surge absorber and high surge resistive relay has been installed to protect from lightning surges and maintain stable operation.

Lightning Protection Level



Easy angle adjustment

It allows the installer to finely adjust the beam easily.
[Horizontally $\pm 90^\circ$ with hand]
[Vertically $\pm 5^\circ$ with screwdriver]

High grade spherical lens

The high grade spherical lens creates more sharply defined & precise infrared beams compared to ordinary fresnel lenses.

A.G.C. (Automatic Gain Control) Circuit

A.G.C. circuit continually monitors for gradual changes in the signal's strength caused by changing weather conditions. It adjusts the sensitivity accordingly to maintain the proper signal level for the current environmental conditions.

99% beam blocking stability

Enables stable operation with as much as 99% loss of beam energy caused by heavy rain, dust storms, fog or snow.

Adjustable beam interruption period

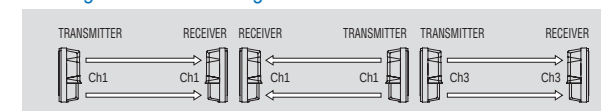
The beam interruption time can be adjusted to fit any application. For example, when protecting a wall or fence, a longer interruption time will catch intruders.

AX-100/200TF only

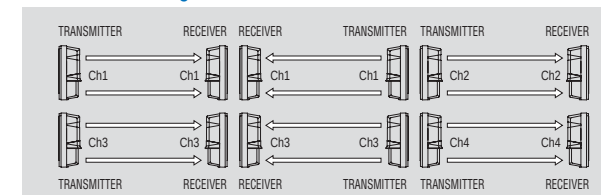
Selectable beam frequencies

The selectable beam frequencies can be used to avoid unwanted crosstalk that can occur when using multiple photobeams for long distance or beam stacking applications.

1. Long distance stacking



2. Two beam long distance

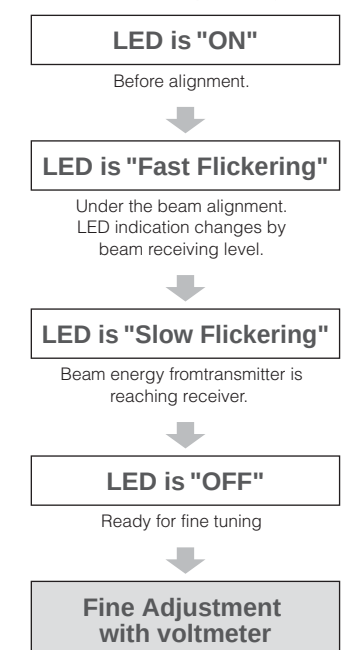


D.Q. Circuit

D.Q. circuit (environmental disqualification) sends a trouble signal when the beam strength is below an acceptable level due to heavy fog, rain, snow or other changes in the installation site. The trouble signal output continues as long as the beam strength is below an acceptable level.

4 step alarm indicator LED for fast & accurate optical alignment

The alignment condition is visually displayed on the LED. It shows the alignment condition by using 4 different process to achieve accurate and easy alignment before fine tuning.



OPTIONS

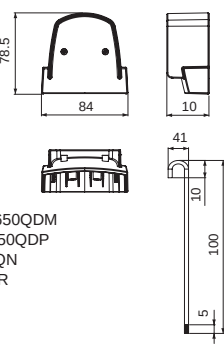
ABC-4



Anti Bird Cap
for

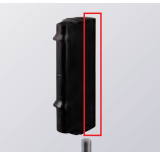
- SL-200QDM/350QDM/650QDM
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QN
- SL-350QFR/SL-350QNR





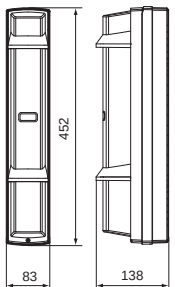
(mm)

CBR-4



Conduit Bracket
for

- SL-200QDM/350QDM/650QDM
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QN

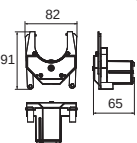


(mm)

BAU-4



Aligns optical axis automatically.
Motor Head

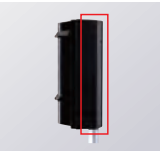


Controller
Dimensions (HxWxD):
180mm x 120mm x 45mm

Beam Alignment Unit
for

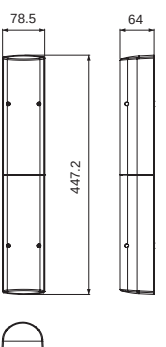
- SL-200QDM/350QDM/650QDM (applicable to receiver and transmitter)
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QM
- SL-350QFR/350QNR
- SL-200QDP-BT/350QDP-BT/650QDP-BT
- SL-350QFR-BT/350QNR=BT (applicable to receiver only)

BC-4



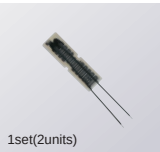
Back cover
for

- SL-200QDM/350QDM/650QDM
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QN
- SL-350QFR/350QNR



(mm)

HU-3

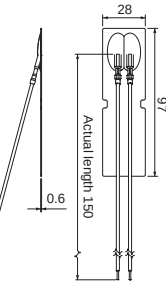


1set(2units)

Heating Unit
for

- SL-200QDM/350QDM/650QDM
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QN

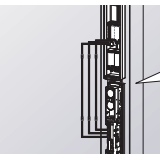
*2sets (4 units) are used for SL series.



(mm)

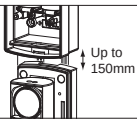
Power input	24VAC/DC
Current draw	420mA(max.) (Per 1 unit)
Thermo switch	60°C (140°F)

EC-4



Extension Cable with
Connector
for

- SL-350QFR/SL-350QNR



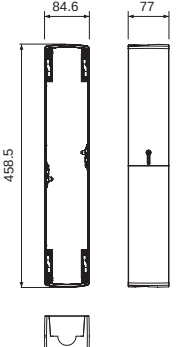
Up to
150mm

PSC-4



Pole Side Cover
for

- SL-200QDM/350QDM/650QDM
- SL-200QDP/350QDP/650QDP
- SL-200QN/350QN/650QN
- SL-350QFR/350QNR



(mm)

BCU-5



Share power source and low battery signals between the main unit and the wireless transmitter.
for

- SL-350QFR/350QNR

Input voltage	3.2 - 4.0 VDC
Low battery input (EX+/-)	N.C. input only
Current draw	Approx. 5 μ A at 3.6 VDC (no load)
Output voltage	Normal Approx. 3.0 - 3.6VDC Low battery Approx. 2.0 - 2.6VDC
Output current	100 mA (max.)
Operating temperature	-20°C - +60°C (-40°F - +140°F)
Operating humidity	95% (max.)



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PHOTOELECTRIC DETECTOR

Smart Line™ series

HARD-WIRED MODELS

ADVANCED MODELS	STANDARD MODELS
SL-200QDM : 60m / 200ft.	SL-200QDP : 60m / 200ft.
SL-350QDM : 100m/ 350ft.	SL-350QDP : 100m/ 350ft.
SL-650QDM : 200m/ 650ft.	SL-650QDP : 200m/ 650ft.

BASIC MODELS	BEAM TOWER MODELS
SL-200QN : 60m / 200ft.	SL-200QDP-BT : 60m/200ft.
SL-350QN : 100m/ 350ft.	SL-350QDP-BT : 100m/350ft.
SL-650QN : 200m/ 650ft.	SL-650QDP-BT : 200m/650ft.

BATTERY OPERATED MODELS

STANDARD MODEL	BASIC MODEL
SL-350QFR : 100m / 350ft.	SL-350QNR : 100m / 350ft.

BEAM TOWER MODEL

SL-350QFR-BT : 100m/350ft.

Anyone can LOCK ON,

Automatically LOCK ON.

The IR transmitter and receiver must be perfectly aligned in order to achieve the optimal operation of the photoelectric detector. However, a great deal of patience, time and effort is required to ensure that the receiver is receiving the maximum amount of infrared signal possible from the transmitter. Optex has the solution the SL series is designed to lighten your workload while achieving perfect alignment.

SNIPER VIEWFINDER™

X2 MAGNIFICATION LENS

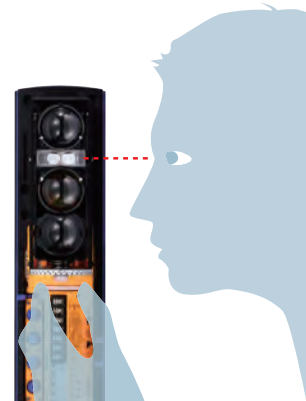
The new telescope lens has a high level of visibility for optical alignment work. Even over long distances, a perfect installation and stable performance can be achieved in a short period.



Conventional model



X2 magnification lens



BEAM ALIGNMENT UNIT : BAU-4 (option)

The BAU-4 beam alignment unit automatically and accurately adjusts the optical axis. This allows peak performance and gives one technician the ability to install the 200 m (650 ft.) Smart Line detector by himself.

THE world first
AUTOMATIC
BEAM ALIGNMENT



HORIZONTAL



VERTICAL

LED INDICATOR AND SOUND ASSIST

SL-QDM: TRANSMITTER AND RECEIVER
SL-QDP: RECEIVER only

The alignment level indicators have 5 LEDs, each LED represents the level of alignment, ranging from poor to excellent. The optical alignment level can also be checked by sound.



TRANSMITTER



RECEIVER

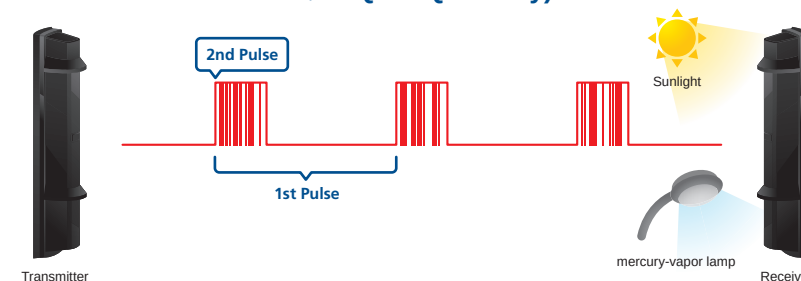
UPPER/LOWER BEAM SELECTION BUTTON

SL-QDM/SL-QDP only: TRANSMITTER AND RECEIVER

Optical alignment can be done without using a beam blocking plate since the SL has upper/lower beam selection button which enables to turn on and off the upper and lower beam alternately in the installation mode.



Double Modulation Beam (SL-QDM/QDP only)



The SL-QDM and SL-QDP series offer double modulation beams that differ in pulse patterns. This can enhance signal discrimination against potential noise interference such as sunlight or other external light sources, resulting in a reduction of missed or false alarms. Together with OPTEX triple layered Sunshine Protection Technology, it ensures high reliability under the severe outdoor security environment.

QUAD BEAM & UNITED APPEARANCE

By employing quad beam, it dramatically reduces false alarm caused by birds and falling leaves. Moreover, it is also important that the housing design of both long and short beams is harmonised. 60m (200ft.) range models, SL-200QN/SL-200QDP/SL-200QDM with a wide beam pitch is now available.



Conventional short beam



Smartline series

IP65 WATER/DUST PROTECTION

Rubber seals is used for all conceivable points where water or dust may penetrate, such as wiring holes, wire ports and the outer openings on chassis.



UV-resistant POLY CARBONATE COVER

Front cover is not clouded by ultraviolet ray during a long term. Therefore it will maintain the transparency of IR beams.

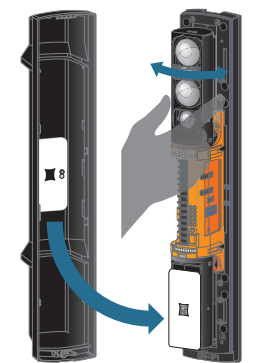


SLIM BODY & LIGHT WEIGHT

20% reduction of the body size and 15% reduction of the weight come together in the SL series.

BEAM BLOCKING PLATE

The plate can firmly be fixed on the lens unit without fear of being blown off by wind. The plates can be stored in the back of the front cover.



ANTI FROST DESIGN (Hood design)

The hoods are positioned on both the upper beam and the lower beam to secure a high and stable beam power by preventing frost from attaching to the front cover.

VIVID INTERIOR COLOR

Easy-to-see vivid interior color for optical alignment.

ALIGNMENT DIAL

The alignment no longer requires a screwdriver. All you need is touch with your fingers for precise adjustment.

QUAD BEAM WITH ASPHERICAL LENSES

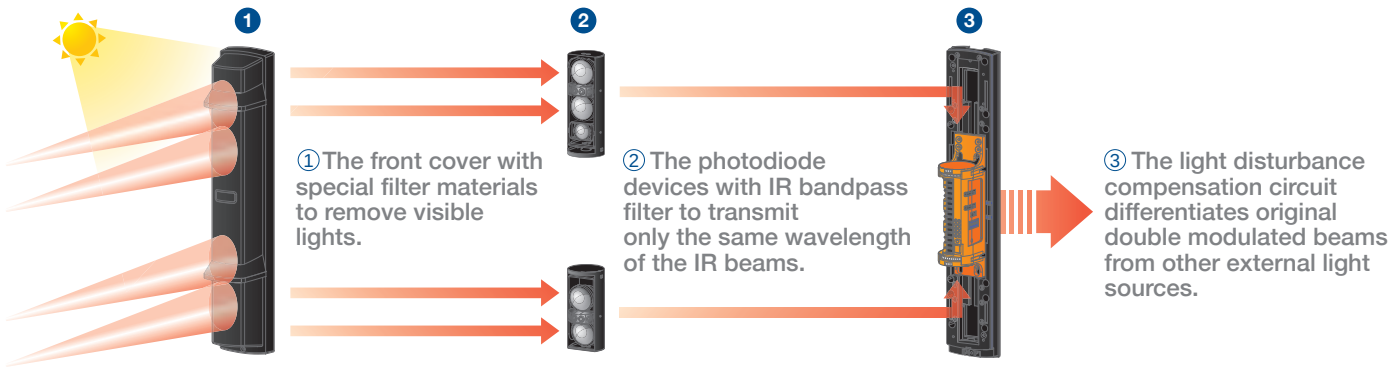
The high-grade aspherical lens create more sharply defined and precise active infrared beams.

SHUT OUT ANY TROUBLES

ENVIRONMENT RESISTANCE

SUNSHINE PROTECTION TECHNOLOGY (SL-QDM/SL-QDP only)

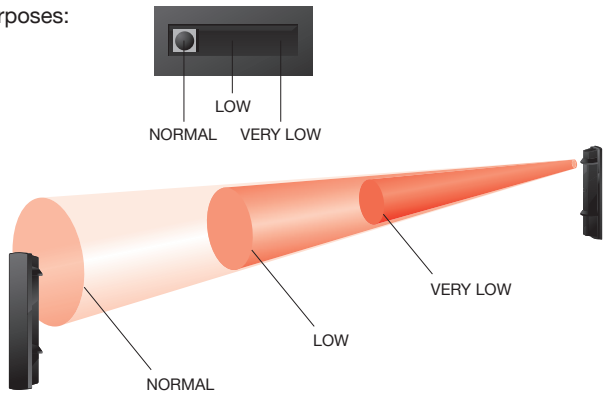
The sunshine protection technology has a triple layer construction to give better performance against external light sources (e.g.:The sun, mercury-vapour lamps, and fluorescent lights).



BEAM POWER CONTROL SELECTOR (SL-QDM/SL-QDP only)

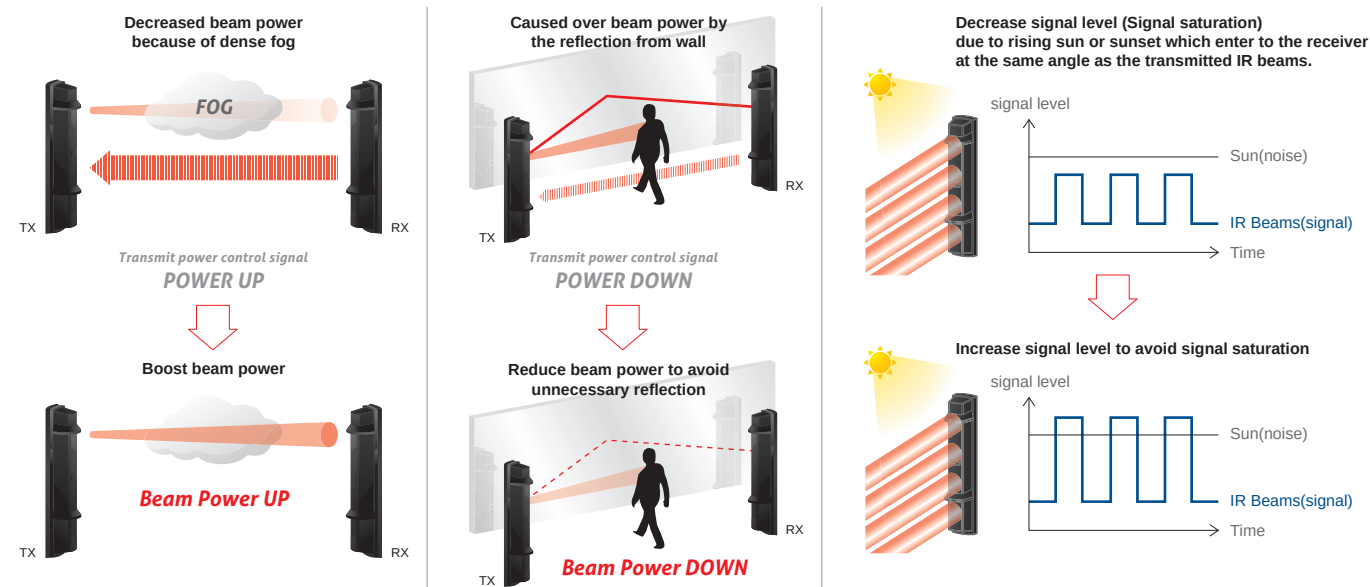
The beam power control selector allows you to manually adjust beam power from NORMAL to LOW or VERY LOW. This function is effective for the following purposes:

- For countermeasure against crosstalk due to reflection of wall or floor by reducing beam power.
- For countermeasure against interference due to unstable S/N (signal / noise) ratio when using multiple photo beams for long distance or beam stacking applications.
- To reduce beam power when using the detector for a distance shorter than the rated distance.
- To search the peak value when making optical alignment to support perfect alignment.



A.T.P.C.-AUTOMATIC TRANSMIT POWER CONTROL (SL-QDM only)

Automatically controls, adjusts and optimizes the power of the beam and maintains optimal performance. It decreases false and missed alarms caused by fog, frost, cross talk, and signal saturation.



SELECTION GUIDE

	HARD-WIRED MODELS			BATTERY OPERATED MODELS	
	ADVANCED	STANDARD	BASIC	STANDARD	BASIC
	SL-200QDM SL-350QDM SL-650QDM 	SL-200QDP SL-350QDP SL-650QDP 	SL-200QN SL-350QN SL-650QN 	SL-350QFR 	SL-350QNR 
++ Most appropriate + Appropriate					
LIGHT DISTURBANCE  (Expected impact :False alarm)	++	+			
REFLECTION  (Expected impact :Missed alarm)	++	+			
INTERFERENCE  (Expected impact :Missed alarm)	++	+		+	
FOG  (Expected impact :False alarm)	+				
LIGHTNING  (Expected impact :Unit damage)	+	+	+	++	++
FROST  (Expected impact :False alarm)	++	+	+		
RE-TRANSMISSION FUNCTION 	+				
LED INDICATOR AND SOUND ASSIST 	++	+			
WIRELESS (BATTERY OPERATED) 				++	++
BEAM TOWER MOUNTING 		+		+	
		WIRED SL-200QDP-BT SL-350QDP-BT SL-650QDP-BT		BATTERY OPERATED SL-350QFR-BT	

HARD-WIRED MODELS



ADVANCED MODEL

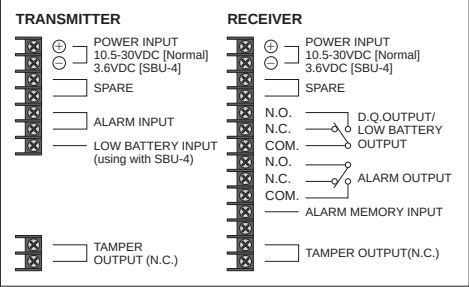
SL-200QDM/350QDM/650QDM

FEATURES

- High power quad beam
- Double modulation
- Beam power control selector
- A.T.P.C.-Automatic transmit power control
- I.A.S.C.- Integrated alignment status communication
- Upper/lower beam selection button
- Beam power control selector

Specifications

Model	SL-200QDM	SL-350QDM	SL-650QDM
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 26mA/Max. 60mA		
Ambient temperature	-35°C - +60°C (-30°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2500 g(88.2oz)		



STANDARD MODEL

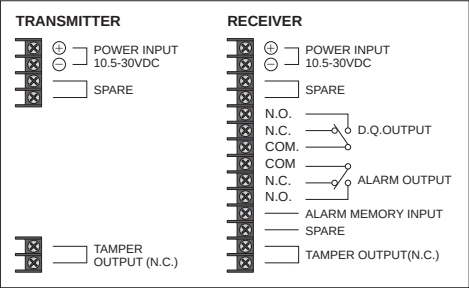
SL-200QDP/350QDP/650QDP

FEATURES

- High power quad beam
- Double modulation
- Upper/lower beam selection button
- Beam power control selector

Specifications

Model	SL-200QDP	SL-350QDP	SL-650QDP
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 17mA/Max. 24mA		
Ambient temperature	-35°C - +60°C (-30°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2400g(84.6oz)		



BASIC MODEL

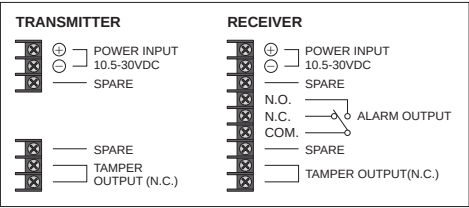
SL-200QN/350QN/650QN

FEATURES

- High power quad beam
- Smart design - Slim body
- Vivid interior color

Specifications

Model	SL-200QN	SL-350QN	SL-650QN
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	-		
Current consumption	38-40mA		
Operating temperature	-25°C - +60°C (-13°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2400g(84.6oz)		



BATTERY OPERATED MODELS

NO WIRING for POWER,
NO WIRING for SIGNAL.



STANDARD MODEL

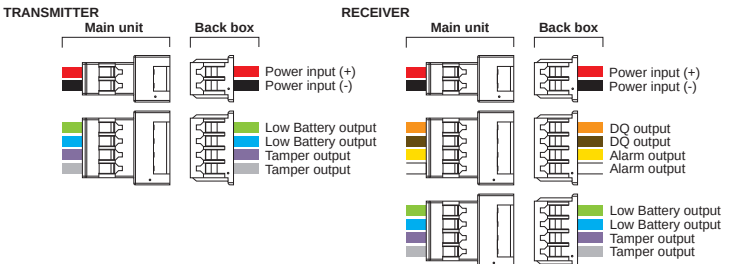
SL-350QFR

FEATURES

- Long distance 100m / 350ft.
- Long battery life - 4 to 8 years
- Spacious back box for wireless transmitter

BASIC MODEL

SL-350QNR



Specifications

Model	SL350QFR	SL-350QNR
Detection range	100m/350ft.	100m/350ft.
Beam frequencies	4ch selectable	-
Power source	Recommend: 3.6 V, 13.0Ah LSH20 lithium batteries manufactured by SAFT Operating range: 3.2 V - 4.0 V lithium batteries Transmitter: 2 or 4 units, Receiver: 2 or 4 units	
Current consumption	745µA	
Operating temperature	-20°C - +60°C (-4°F - 140°F)	
Water protection	IP65	
Dimensions H x W x D	452 (17.9) x 83 (3.3) x 138 (5.4) mm(inch)	
Weight	3300 g	

BEAM TOWER MODELS



WIRED MODELS

SL-200QDP-BT/350QDP-BT/650QDP-BT

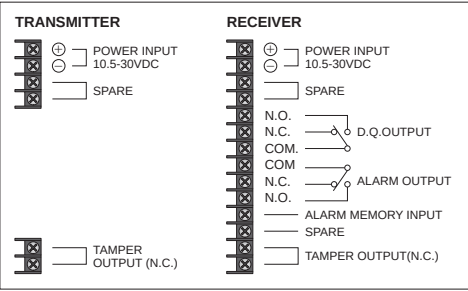
FEATURES

- High power quad beam
- Double modulation
- Upper/lower beam selection button
- Beam power control selector

*This model is not included the cover and the chassis.

Specifications

Model	SL-200QDP-BT	SL-350QDP-BT	SL-650QDP-BT
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 17 mA / Max. 24mA		
Operating temperature	-35°C to +60°C (-30 to 140°F)		
Water protection	-		
Dimensions H x W x D	405.1 (15.9) x 56.5(2.22) x 60.1 (2.36) mm (inch)		
Weight	Approx. 800g(28.2oz)		



BATTERY OPERATED MODEL

SL-350QFR-BT

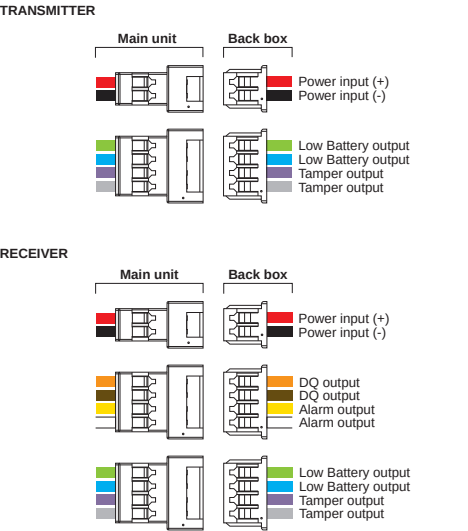
FEATURES

- Long distance 100m / 350ft.
- Long battery life - 4 to 8 years
- Spacious back box for wireless transmitter

*This model is not included the cover and the chassis.

Specifications

Model	SL-350QFR-BT
Detection range	100m/350ft.
Beam frequencies	4ch selectable
Power source	Recommend: 3.6V, 13.0Ah LSH20 lithium batteries manufactured by SAFT Operating range: 3.2 V to 4.0 V lithium batteries Transmitter: 2 or 4 units, Receiver: 2 or 4 units
Current consumption	745µA
Operating temperature	-20°C to +60°C (-4 to 140°F)
Water protection	-
Dimensions H x W x D	405.1 (15.9) x 56.5(2.22) x 60.1 (2.36) mm (inch)
Weight	Approx. 800g(28.2oz)



WIDE ANGLE OUTDOOR DETECTOR

QX Infinity series

WIRED MODELS

QXI-ST: 12m (40ft), 120 degrees

QXI-DT*: as QXI-ST with anti-blocking and dual-technology

BATTERY-OPERATED MODELS

QXI-R: 12m (40ft), 120 degrees

QXI-RDT: as QXI-R with dual technology

*MW frequencies [10.525 GHz (X5), 10.587 GHz (X8), 9.425 GHz (X9)]

The QX Infinity (QXI) series is a range of outdoor PIRs and dual-technology sensors providing 120° wide and 12m (40ft) detection area. Sleek and compact, the QXI sensors are small and well suited to any residential or commercial building as they provide reliable, animal tolerant intrusion and motion detection.



Reliable outdoor detection sensor

Super Multidimensional Analysis (SMDA) logic

All QXI models are equipped with a digitally enhanced signal recognition logic called SMDA. It analyses the detection pattern and changes to the environment such as the weather and vegetation sway to filter out noise and the cause of nuisance alarms.

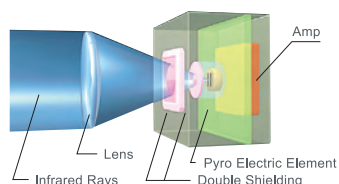


QUAD Technology combined with AND logic

The QXI features two layers of detections (QUAD pyro elements) and operates with AND logic. In high mount applications, this provides a good tolerance to small animals, contributing to reliable outdoor detection.

Double conductive shielding

Another key feature of the QXI series is the Double Conductive Shielding which filters out visible light and RFI disturbance.



Dual-technology models

For more challenging environments, the QXI-DT (wired model) and the QXI-RDT (wireless model), combine PIR and Microwave technologies to confirm the alarm. They feature the OPTEX Tough microwave module, specifically developed to prevent corrosion from condensation and humidity.

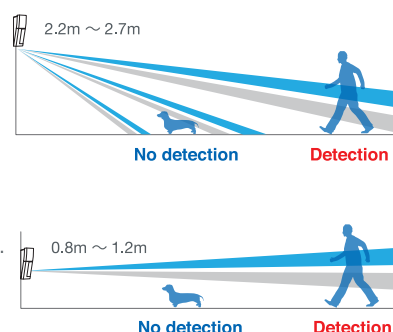
Anti-Blocking

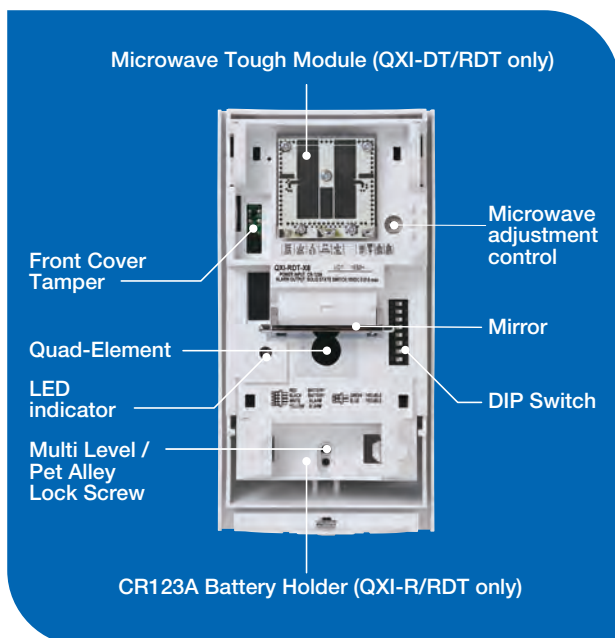
The QXI-DT model offers an anti-blocking function in high mount utilising the microwave module to detect attempts to mask the sensor.



Selectable mounting height and detection pattern

When mounted between 2.2 and 2.7m the sensor creates a multi-level volumetric detection pattern, allowing it to ignore small animals. In environments with larger animals, the sensor can be mounted between 0.8 and 1.2m height, to provide a pet alley.





Easy installation and maintenance

The screwless design makes the opening and closing of the front cover very easy with a flat head screwdriver.



The battery-operated models (QXI-RT and RDT) feature easy access to the CR123 battery located at the front of the sensor which makes changing the battery easier.



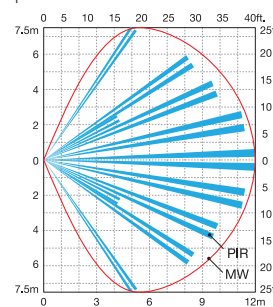
Specifications

Model	QXI-ST	QXI-DT
Detection method	Passive infrared	Passive infrared & Microwave
PIR coverage	12.0 m (40') 120°wide	
PIR zones	Multi level: 40 zones Pet alley: 18 zones	
Detectable speed	0.3 to 2.0 m/s (1' to 6'7"/s)	
Sensitivity	2.0°C (3.6°F) at 0.6 m/s	
Pet alley	Remove lower area detection to avoid small animals.	
Power input	9.5 to 16 V DC	
Current draw	20 mA max. at 12 V DC	30 mA max. at 12 V DC
Alarm period	2.0 ± 0.5s	
Warm-up period	Approx. 60 s (LED blinks)	
Alarm output	N.C/N.O. switchable, 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 the cover is opened	
LED indicator	[1]Warm-up [2]Alarm [3]Walk test end	[1]Warm-up [2]Alarm [3]Walk test end [4]Blocking detection
Operation temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +45°C (-40°F to +113°F)
Environment humidity	95% max.	
Internation protection	IP 54	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	Multi level: 2.2 to 2.7 m (7'3" to 8'11") Pet alley: 0.8 to 1.2 m (2'7" to 4')	
Weight	180 g (6.35 oz)	195 g (6.88 oz)
Accessories (included)	[1]Mounting screw (4 x 12 mm) x 2 [2]Lock screw (3 x 12 mm) x 1 [3]Area masking strips	

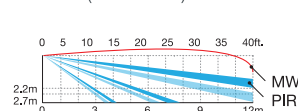
Specifications and designs are subject to change without prior notice.

Coverage

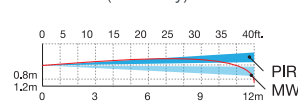
Top View



Side View (Multi Level)

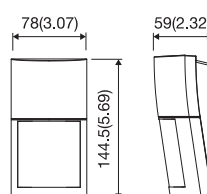


Side View (Pet Alley)

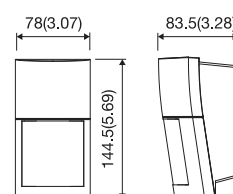


Dimensions

QXI-ST/DT



QXI-R/RDT



Unit: mm (inch)

Options

Bracket for Ceiling Mount

CA-2C(W)



Bracket for Wall Mount

CA-1W(W)



Additional Features

- UV-resistant ASA body
- Shared battery usage (QXI-R/QXI-RDT)
(A wireless transmitter using CR123 battery can be powered by the sensor)

Model	QXI-R	QXI-RDT
Detection method	Passive infrared	Passive infrared & Microwave
PIR coverage	12.0 m (40') 120°wide	
PIR zones	Multi level: 40 zones Pet alley: 18 zones	
Detectable speed	0.3 to 2.0 m/s (1' to 6'7"/s)	
Sensitivity	2.0°C (3.6°F) at 0.6 m/s	
Pet alley	Remove lower area detection to avoid small animals.	
Power source	CR123A (3 V DC) *Not included.	
Current draw	9 µA stand-by 11 mA max. at 3 V DC	16 µA stand-by 11 mA max. at 3 V DC
Alarm period	2.0 ± 0.5s	
Warm-up period	Approx. 60 s (LED blinks)	
Alarm output	N.C/N.O. switchable solidstate switch, 3 V DC 0.01 A max.	
Trouble output (with tamper)	N.C/N.O. switchable solidstate switch, 3 V DC 0.01 A max.	
LED indicator	[1]Warm-up [2]Alarm [3]Walk test end	
Operation temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +45°C (-40°F to +113°F)
Environment humidity	95% max.	
Internation protection	IP 54	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	Multi level: 2.2 to 2.7 m (7'3" to 8'11") Pet alley: 0.8 to 1.2 m (2'7" to 4')	
Weight	215 g (7.58 oz)	230 g (8.11 oz)
Accessories (included)	[1]Dummy battery and connector for ALARM [2]Connector for TROUBLE [3]Mounting screw (4 x 12 mm) x 3 [4]Lock screw (3 x 12 mm) x 1 [5]Area masking strips	



Web-based manual for wired models
<http://navi.optex.net/manual/50333/>



Web-based manual for wireless models
<http://navi.optex.net/manual/50337/>



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OUTDOOR PIR DETECTOR

12 X 15m 120° Wide 24 X 2m Long and narrow

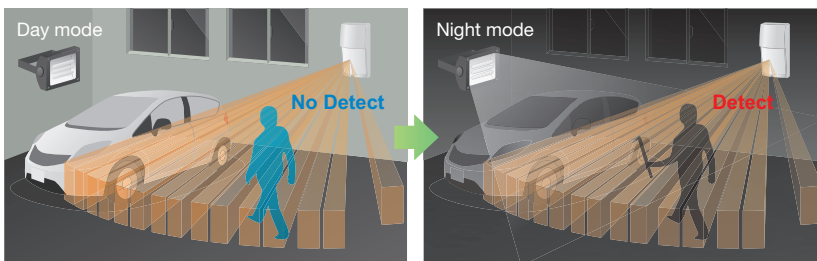
LX-402 LX-802N

Triggering Lighting and Camera

The LX series is weatherproof and specifically designed for outdoor applications, such as triggering lighting and cameras. With advanced features such as sensitivity and range adjustment and a built-in light sensor providing day and night modes, the LX series is highly versatile. With Double Conductive Shielding, the LX series is resistant to interference from non-related light sources such as the sun and car headlights.



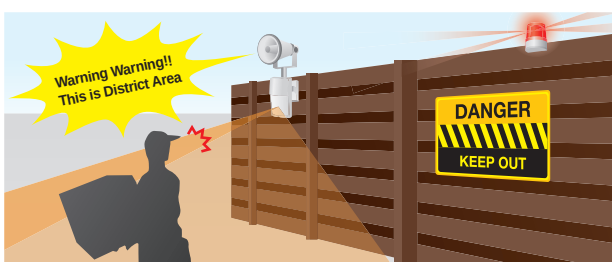
● LIGHTING CONTROL



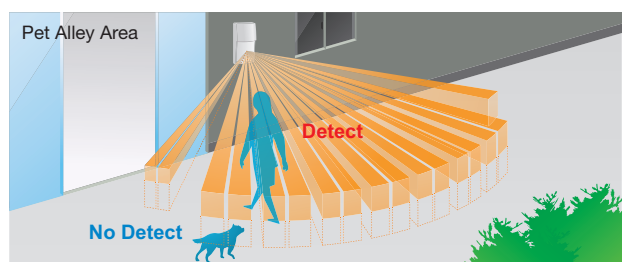
● PTZ camera control and DVR recording



● SAFETY ALERT



● ENTRY ALARM

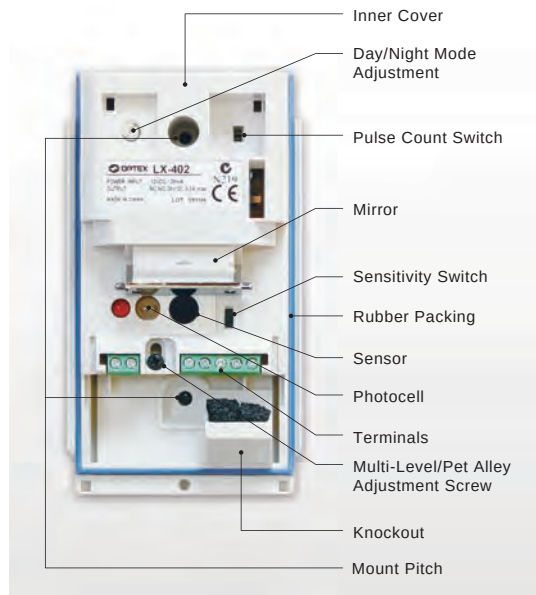


● Features

- Day & night modes
- Selectable detection patterns (Pet Alley or Multi-Level)
- Area-masking strips
- Sensitivity selection switch
- Selectable pulse count (test or 2)
- Form C relay output
- Double conductive shielding

OUTDOOR PASSIVE INFRARED DETECTOR

LX-402/802N



● Day & Night Modes

Adjust the Day/Night Mode switch according to the brightness of the surrounding environment.



● Selectable Detection Patterns (Multi or Pet Alley)

Multi-level or Pet Alley detection patterns can be selected by sliding the printed circuit board and flipping the mirror. Changing the vertical detection area allows the detector to match the site conditions.



● Area Masking Strips (LX-402 only)

Unwanted detection areas can be easily eliminated by attaching the supplied masking strips.

● Selectable Sensitivity (High, Mid, Low)

● Selectable Pulse Count (Test or 2)

Test Mode is selected when conducting a Walk Test, or for use in extremely stable environment.

Form C relay output
(N.O./N.C.)



Multi angle wall mount Bracket CA-1W

Horizontally : 45°
Vertically : 0 to 20°
Downward



Ceiling mount Bracket CA-2C

Horizontally : 45°
Vertically : 0 to 20°
Downward



Protective metal cover MG-1

H262 x W84 x D79mm



SPECIFICATION

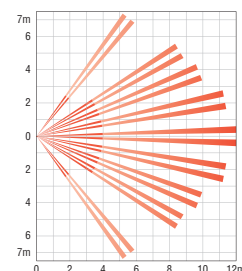
Model	LX-402	LX-802N
Detection method	Passive Infrared	
Coverage	12m x 15m (40 ft. x 50 ft.) 120 wide	24m x 2m (80 ft. x 6.6 ft.) Long and narrow
Detection zones	Multi-level area : 40 zones Pet alley area : 18 zones	12 zones 4 zones
Mounting	Multi-level area : 2.5m (8.3 ft.) Pet alley area : 1.2 - 1.5 m (4 - 5 ft.)	
Detection speed	0.3 - 1.0 m/sec. (1 - 3.3 ft./sec.)	
Sensitivity adjustment	Selectable 3 position (H, M, L)	
LED indicator	LED lights during detection	
Alarm period	2 ± 1 sec. (delay timer)	
Alarm output	NC, NO, 28V DC 0.2A max.	
Tamper switch	Opens when cover is removed.	
Pulse count	2 (20 ± 5 sec.) or TEST (1 pulse)	
Day/night mode adjustment	Approx. 10 to 100,000 lux	
Warm-up period	Approx. 60 sec.	
Power supply	10.8 - 13.2V DC	
Current consumption	25mA max.	
Installation place	Wall (indoor/outdoor)	
Operating temperature	-20C to +50C (-4F to +122F)	
Operating humidity	95% max.	
Weight	170g (6.0oz.)	190g (6.8oz.)
IP rating	IP 54	
Accessory	Masking strips (LX-402 only), mounting screw, sponge	

Specifications and design are subject to change without prior notice.

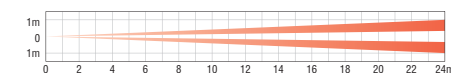
DETECTION PATTERNS

TOP VIEW

LX-402

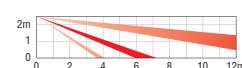


LX-802N

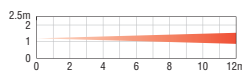


SIDE VIEW

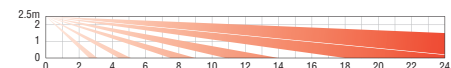
① MULTI-LEVEL AREA



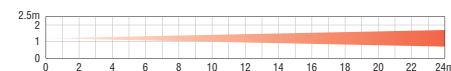
② PET ALLEY AREA



① MULTI-LEVEL AREA

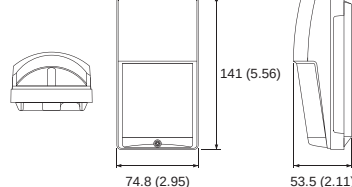


② PET ALLEY AREA

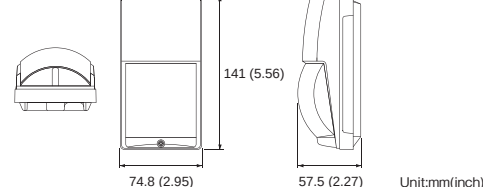


DIMENSIONS

LX-402



LX-802N



Unit:mm(inch)



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Tech: (800) 966-7839
URL: <http://www.optexamerica.com/>

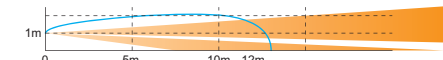
OPTEX DO BRASIL LTDA.

TEL: +55-11-2225-0934
URL: <http://www.optexdobrasil.com.br/>

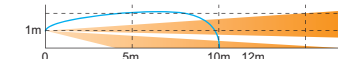
DETECTION AREA

SIDE VIEW (Detection Distance by Positions)

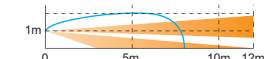
Position 1 : Approx. 12m/40ft (Default)



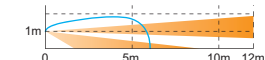
Position 2 : Approx. 8.5m/27.9ft



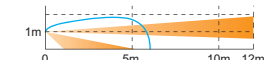
Position 3 : Approx. 6.0m/19.7ft



Position 4 : Approx. 3.5m/11.5ft



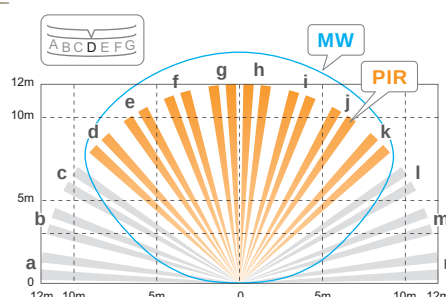
Position 5 : Approx. 2.5m/8.2ft



The actual detection distance is dependent on the thermal conditions within the given environment.

TOP VIEW

(Area diagram for D position)



SPECIFICATIONS

Model	VXI-ST	VXI-AM	VXI-DAM
Detection method	Passive infrared		Passive infrared & Microwave
PIR coverage	12.0 m (40 ft) 90° 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.		
International protection	IP55		
Mounting	Wall, Pole (Outdoor, Indoor)		
Mounting height	0.8 - 1.2 m (2.64 ft - 3'94 ft)		
Weight	500 g (17.7 oz.)		600 g (21.2 oz.)
Accessories	Screw (4×20 mm) ×2, Wiring sponge ×3, Masking seal ×3		

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.		
International protection	IP55		
Mounting	Wall, Pole (Outdoor, Indoor)		
Mounting height	0.8 - 1.2 m (2.64 ft - 3'94 ft)		
Weight	500 g (17.7 oz.)		600 g (21.2 oz.)
Accessories	Connector for POWER and ALARM, Connector for TROUBLE, Screw (4×20mm) ×2, Masking seal ×3		

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



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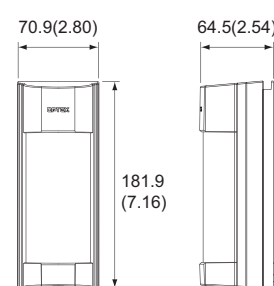
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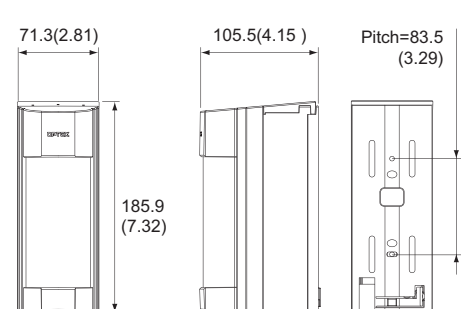
TEL: +86-21-34600673
URL: <http://www.optexchina.com/>

DIMENSIONS

Without a back box (VXI-ST / AM / DAM)



With a back box (VXI-R / RAM / RDAM)



Unit:mm(inch)

OPTIONS

VXI-T-Bracket

*VXI-DAM and VXI-RDAM can not be used due to microwave interference.



BATTERY BOX (RBB-01)

*Battery not included.
CR123A x 3(3.0VDC)
CR2 x 3(3.0VDC)
1/2AA x 3(3.6VDC)
1/2AA x 6(7.2VDC x 3)*

*3.6 VDC 1/2 AA battery in series.

Wall Tamper (WRS-02)

for ST, AM, DAM models



Wall Tamper (WRS-04)

for R, RAM, RDAM models



*Not applicable for a use of a set of dual technology models (DAM & RDAM).

Plug in EOL(End of line) Resistor Modules

for wired models

Different values of EOL resistances can be instantly set by plugging in optional modules. Please refer to the relevant control panels manual to confirm matching resistance values.



PEU-A(PACK)

Alarm: 2.2kΩ / Tamper: 4.7kΩ / Trouble: 2.2kΩ

PEU-B(PACK)

Alarm: 4.7kΩ / Tamper: 4.7kΩ / Trouble: 6.8kΩ

PEU-C(PACK)

Alarm: 1.0kΩ / Tamper: 1.0kΩ / Trouble: 12kΩ

PEU-D(PACK)

Alarm: 1.0kΩ / Tamper: 1.0kΩ / Trouble: 3.0kΩ

PEU-E(PACK)

Alarm: 1.1kΩ / Tamper: 1.1kΩ / Trouble: 15kΩ

PEU-F(PACK)

Alarm: 5.6kΩ / Tamper: 5.6kΩ / Trouble: 5.6kΩ



A WORLD LEADING OUTDOOR DETECTOR

- Flexible Detection Patterns
- Expanded Features in a Down-sized Body
- Digitally Enhanced Reliability

VX InfinityTM series

WIRED MODEL

VXI-ST : 12m wide 2PIRs standard
VXI-AM : Anti-masking
VXI-DAM : 2PIRs with Microwave

BATTERY OPERATED MODEL

VXI-R : Battery operated 12m 2PIRs
VXI-RAM : Battery operated Anti-masking
VXI-RDAM : Battery operated 2PIRs with Microwave

Re-defining the Standard: VX-Infinity has 6 models to choose from, including RDAM with innovative low current microwave technology.

PIR DETECTOR

VXI-ST (Wired model)
VXI-R (Battery operated model)

Building upon features inherited from the VX-40 series, VX Infinity presents infinite possibility with the power of digital processing. VXI-ST/R demonstrates a long & stable performance in typical outdoor environment.

PIR DETECTOR with ANTI-MASKING

VXI-AM (Wired model)
VXI-RAM (Battery operated model)

Active IR Anti-masking detects covering objects on lens surface when monitoring of the detector status is required.



PIR and MICROWAVE DETECTOR with ANTI-MASKING

VXI-DAM (Wired model)
VXI-RDAM (Battery operated model)

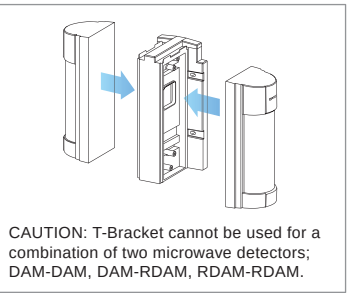
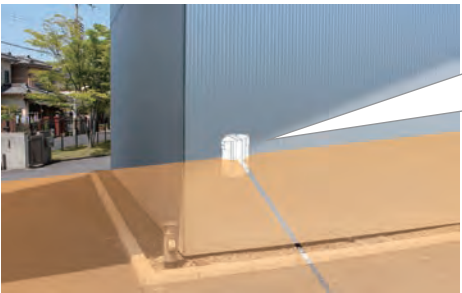
Integrated algorithm of both PIR and Microwave provides the ultimate stability in detection performance. In a field where strong sun hits the land or facing direct light beams from traffic, DAM/RDAM offers higher false alarm immunity.



Flexible Detection Patterns

Optional 180 degree arrangement.

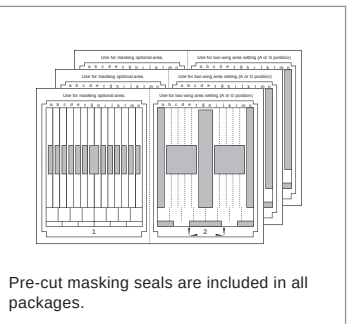
To cover a wider field, optional T-Bracket enables two VXI detectors join to form a single detection zone.



CAUTION: T-Bracket cannot be used for a combination of two microwave detectors; DAM-DAM, DAM-RDAM, RDAM-RDAM.

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

Optimal different detection pattern can be configured by a quick application of an assigned masking seal onto the VXI lens.



Pre-cut masking seals are included in all packages.

Expanded Features in a Down-sized Body

VXI reduced its profile size and increased its aesthetic appeal to be adapted at various installation sites.

Wireless Ready

A wireless transmitter of your choice can be accommodated in VXI-R/RAM/RDAM models. These models consume minimum electrical current* from a battery. Optional battery box (RBB-01) can expand the battery capacity to prolong an operation period.

*As low as 9 micro amperage at a standby.

Wireless Trigger Life Time* Reference		
VXI	R, RAM	RDAM
CR123 (3VDC 1300mAh)	Approx 6 years	Approx 4 years
CR2 (3VDC 750mAh)	Approx 4 years	Approx 2 years

*WTLT is an approximation based on hypothetical condition operated with settings; LED(OFF), AM(ON), Battery Saving Timer(120sec)

EOL Module Socket

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

Infinity Housing

IP55 Protection
UV Resistant ASA Body



Tough Mod 2™ (for DAM and RDAM models)

	VX Infinity series	Conventional
Images		
PCB board Material	Ceramic	Glass epoxy
Antenna Material	Gold-plated	Tin-plated

OPTEX Tough Mod™ Technology enables a long-time sustainability of Dual-detection technology. Gold-plated Tough Mod increases durability of a detector to withstand hot and humid climates. Now, Tough Mod 2 extends the capability of Dual-detection to battery operated detectors with energy saving circuits.

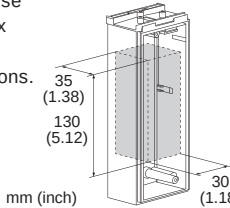


Versatile Mounting Plate

VXI installation has become easier and versatile with a new mounting plate. Secure the plate on a wall and mount VXI. Alternatively, use a metal band with less than 25mm (1inch) width to secure the VXI onto any diameter of poles. Optional wall tamper modules are applicable to either type of installations.

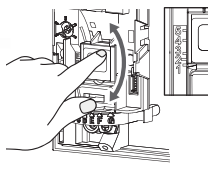
Multipurpose Spacious Back Box

All models of VXI include a back box in their packages. The back box is designed to accommodate various wireless transmitters or can be used as a conduit or a spacer between a wall and the detector. Use of the back box is optional for wired installations.

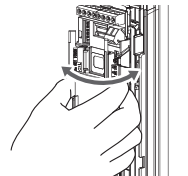


Flexible Detection Area Setting

5 Levels of Detection Distance Adjustment



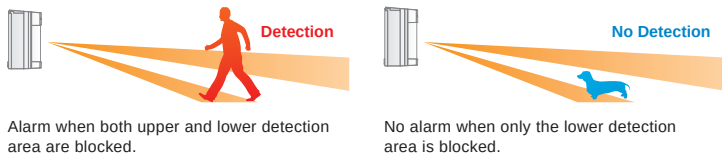
8 Horizontal Area Positions



Digitally Enhanced Reliability

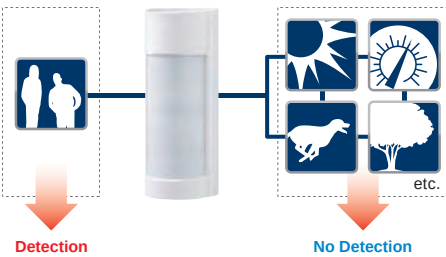
Digital Double Layer Detection

Both an upper and a lower detection areas must simultaneously be crossed to generate an alarm. The detections are independently analyzed so that a misleading coincidence of events can be filtered out. This technology virtually eliminates detections of smaller animals in the premises.



SMDA logic (Super Multidimensional Analysis)

All VXI models are equipped with a digitally enhanced signal recognition logic called SMDA. SMDA improves immunity against various noise factors such as climate changes and vegetation sways. VXIs expands applicable fields and reliability beyond what VX-402 was capable.



Other Basic Common Features

- Double Conductive Shielding
- Area Defining Masking Seals
- Sensitivity Adjustment Switch
- Walk Test Mode LED
- Cover Tamper

FTN-ST/AM

- Digital Anti-masking (AM only)
- 5m/2m narrow range
- 190° horizontal flexibility
- perfect pet immunity
- Super Multi Dimension Analysis Logic
- Double conductive shielding
- Intelligent AND logic



FTN-R/RAM

- complete battery operation
- Digital Anti-masking (RAM only)
- 5m/2m narrow range
- 190° horizontal flexibility
- perfect pet immunity
- Super Multi Dimension Analysis Logic
- Double conductive shielding
- Intelligent AND logic



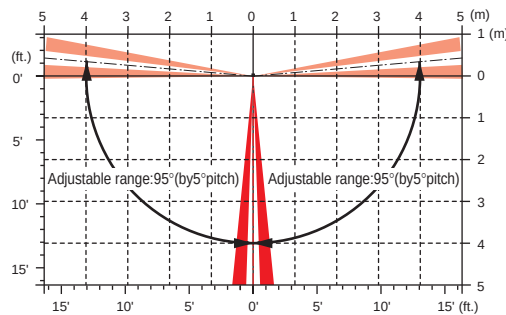
SPECIFICATIONS

Model	FTN-ST	FTN-AM	FTN-R	FTN-RAM
Detection method	Passive infrared			
PIR coverage	5×1m (16'5"×3'3")			
Detection length limit	2 m, 5 m (6'7", 16'5")			
Detectable speed	0.3 - 1.5 m/s (1' - 4'11"/s)			
Sensitivity	2.0°C (at 0.6 m/s) (3.6°F (at 2'/s))			
Operation voltage	9.5 - 18 V DC		2.5 - 10 V DC	
Power input	-		3 - 9 V DC (Lithium or Alkaline Battery)	
Current draw	17mA(max.) (at 12 V DC)	20mA(max.) (at 12 V DC)	9 μA (at stand-by) / 3mA(max.) (at 3 V DC)	10 μA (at stand-by) / 3mA(max.) (at 3 V DC)
Alarm period	2.0 ±1.0sec.			
Warm-up period	Approx. 60 sec. (LED blinks)		Approx. 120 sec. (LED blinks)	
Alarm output	N.C./N.O. Selectable 28 V DC 0.1 A (max.)		N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
Trouble output	N.C. 28 V DC 0.1 A (max.), open when the cover is removed.		N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
LED indicator	Light/Blink: Warm-up, alarm, masking detection (FTN-AM only)		Enable: During DIP switch 1 (WALK TEST MODE) or DIP switch 4 (LED) ON Disable: During normal operation Light/Blink: Warm-up, alarm, masking detection (FTN-RAM only)	
Operation temperature	-20 - +60°C (-4 - +140°F)			
Environment humidity	95% max.			
Weatherproof	IP55			
Mounting	Wall (Outdoor, Indoor)			
Mounting height	0.8 - 1.2 m (2'7" - 3'11")			
Weight	100 g (3.5 oz.)		190 g (6.7 oz.)	
Accessories	screw (3×20 mm)×2		Connector for POWER and ALARM, connector for TROUBLE, plate nut×2, screw (M3×10 mm)×2, screw (3×20 mm)×4, sponge for transmitter	

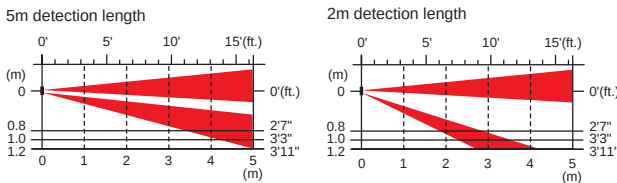
*Specifications and design are subject to change without prior notice.

COVERAGES

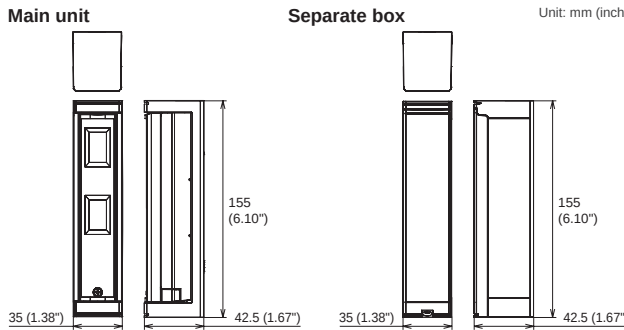
Top view



Side view



DIMENSION



OPTION

Wall tamper (WRS-02)
for FTN-ST/AM



Wall tamper (WRS-03)
for FTN-R/RAM



COMPACT
OUTDOOR
DETECTOR

fit
series

fit for ALL

not only for a garden but also for a balcony
not only for a wall side but also an area protection
not only for a daytime but also for a nighttime



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fit for ALL

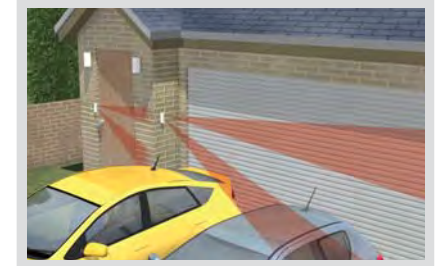
fit at window



fit at poolside



fit at garage



fit at sidewalk



fit at balcony

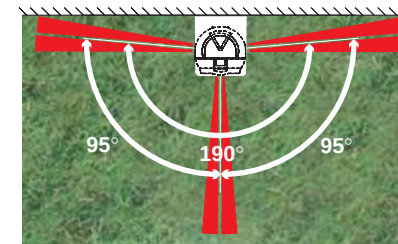


fit at front entrance



Product features

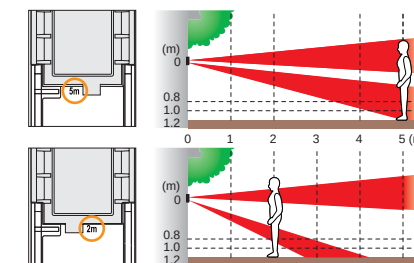
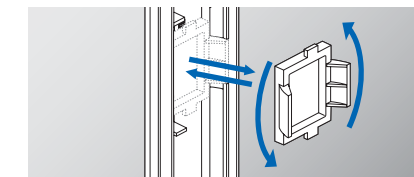
Built in bracket (190°)



Built-in bracket enables horizontal rotation of 190 degrees. Unwanted object can be avoided with ease.



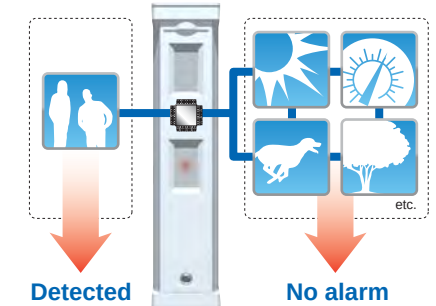
5m/2m switchable lens



Changing the detection length is easy. Adjust the mounting height or simply turn the lens upside down.

SMDA Logic

SMDA(Super Multi Dimension Analysis) Logic brought the ultimate sensitivity optimization. Every motion is analyzed before signaling an alarm to reduce false and missed detections. Consequently environment reaction capability becomes 24 times more.



fit at home

amplification through simplification

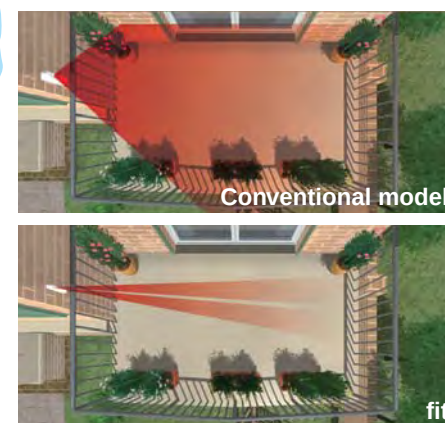
Compact design

Security is important but I don't want to disturb how my house looks. I like "fit".



Flexibility

"fit" is the perfect option for a balcony with greens because its detection area is so flexible.



Battery operated model

model FTN-R/RAM

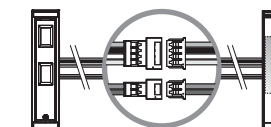
Save installation time and cost

FTN-R/RAM are battery operated model and therefore requires no complicated wiring. It saves installation time and cost.



Easy connection

FTN-R/RAM can be connected to the transmitter with connectors. It makes installation and battery replacement much easier and quicker.



Maximum transmitter size
H130 X W30 X D35mm
(H5.12" X W1.18 X 1.38)

Multi fixing separate box

