Product Digest

Multi-layered security to prevent damage and theft

A Zone: Perimeter Protection

B Zone: Approach and building boundary

C Zone: Indoor security

First line of defense: Protects the extreme perimeter

Pre-built beam towers

SL-100TNR/200TNR

Short range/battery operated
SL-100TNR: 30m
SL-200TNR: 60m

Features
• Sniper viewfinder
• Universal powered operation
• Easy battery replacement

AX-100TFR/200TFR

Short range/battery operated
AX-100TFR: 30m
AX-200TFR: 60m

Features
• Selectable 4ch beam frequencies
• Easy battery replecement
• Triple tamper function

SL-350QFR/350QNR

Long range/battery operated
SL-350QFR:100m Selectable 4ch beam frequencies
SL-350QNR:100m Standard model

Features
• Sniper viewfinder
• IP65 protection

AX-70TN/130TN/200TN/100TF/200TF

Short range/hard-wired
AX-70TN:20m , AX-130TN:40m, AX-200TN:60m
AX-100TF:30m, AX-200TF:60m

Features
• Selectable 4ch beam frequencies (AX-TF only)
• IP65 protection

SL-200QN/350QN/650QN

Middle & long range/hard-wired
SL-200QN:60m
SL-350QN:100m
SL-650QN:200m

Features
• Quad high power beams
• Sniper viewfinder
• IP65 protection

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

Advanced/hardwired
SL-200QDP/200QDM:60m
SL-350QDP/350QDM:100m
SL-650QDP/650QDM:200m

Features
• Quad high power beams
• Double modulation
• Sniper viewfinder
• IP65 protection
• A.T.P.C. to optimize the beam power (SL-QDM only)
• I.A.S.C. Integrated alignment status communications
  (SL-QDM only)

QDM and QDP models can be stacked into pre-assembled beam towers

When using active infrared beams for perimeter protection it is good practice to mount them into towers rather than on to walls or poles. This enhances the security level as the housing protects them from possible vandalism and conceals the mounting location making it very difficult for potential intruders to determine the number and height of beams installed. Another key benefit of using towers is the ability to host several supplementary components into a weatherproof enclosure, which can be mounted in a tidy and organised way. Towers can be single-sided or double-sided, wall mounted or ground mounted, and are available in 2 or 3m housing.

Optional accessories

TWAA	
	Anti climb top tamper

TWMR FAN KIT	
	12 Volt fan kit with thermostat

STTWEB	
	Concrete floor bracket for 180° free standing

TWEB	
	Concrete floor bracket for 360° double sided free standing towers

DC12V	
	12Volt Power supply 1.8Amp with bracket

TWE	
	Tower head extension for installation of light

Optional accessories

ABC-4

Anti Bird Cap for
- SL-200QDM/350QDM/ 650QDM
- SL-200QDP/350QDP/ 650QDP
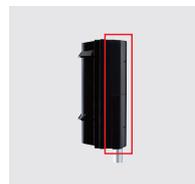- SL-200QN/350QN/650QN
- SL-350QFR/SL-350QNR

BC-3

Pole Cover
- Back cover bracket which can be used to cover mounting pole.
- AX-70TN/130TN/ 200TN/100TF/200TF

BC-4

Pole Cover
Back cover bracket which can be used to cover mounting pole.
- SL-200QDM/350QDM/
- 650QDM
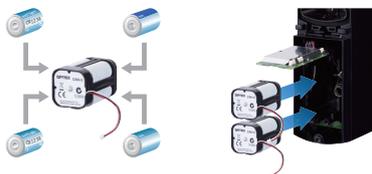- SL-200QDP/350QDP/
- 650QDP
- SL-200QN/350QN/650QN
- SL-350QFR/350QNR

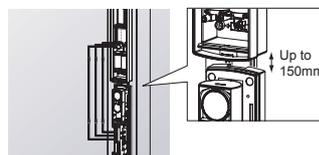### CBR-4

Conduit Bracket for
- SL-200QDM/350QDM/ 650QDM
- SL-200QDP/350QDP/ 650QDP
- SL-200QN/350QN/650QN

CRH-5

Battery holder when using CR123A as a power source.
CR123A: Transmitter x 8pcs, Reciever x 8pcs.
Battery life : Approx. 1year
For SL-TNR only

EC-4

Up to 150mm

Extension Cable with Connector for
- SL-350QFR/SL-350QNR

MP-4

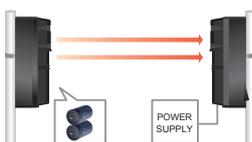Main unit mounting bracket (for lower mounting)

Compatible with
- AX-100TFR/200TFR

Tamper bushing (without the tamper bushing, the LED's are kepy ON, which consumes more power)

PCU-5

Voltage converter unit used to enable wired operation of the detector.

POWER SUPPLY

Compatible with
- SL-100 TNR/ 200TNR

PSC-3

Pole Cover
- Pole side cover for installing 2 units to 1 pole.
- AX-70TN/130TN/ 200TN/100TF/200TF

PSC-4

Pole Side Cover for
- SL-200QDM/350QDM/ 650QDM
- SL-200QDP/350QDP/ 650QDP
- SL-200QN/350QN/650QN
- SL-350QFR/350QNR

BCU-5

Share power source and low battery signals
between the main unit and the wireless transmitter.
for
- SL350QFR/350QNR
- AX-100TFR/200TFR
- SL-100TNR/SL 200TNR

HU-3

1 set (2 units)

Heating Unit for
- SL-200QDM/350QDM/ 650QDM
- SL-200QDP/350QDP/ 650QDP
- SL-200QN/350QN/ 650QN
- AX-70TN/ 130TN/200TN/ 100TF/200TF

Input voltage	3.2 - 4.0 VDC	
Low battery input (EX+/-)	N.C. input only	
Current draw	Approx. 5 µA 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.)	

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

Second line of defense: Protects the middle area between the perimeter and boundary
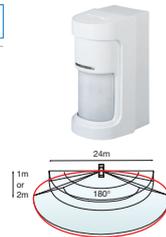
WXS-AM/DAM

Panoramic outdoor detector
WXS-AM: 12m/180° PIR with anti-masking
WXS-DAM: 12m/180° PIR/MW with anti-masking

Features
• Individual detection area and sensitivity setting (right/left)
• Adaptive IR digital anti-masking
• Selectable mounting height (0.8-1.2 m or 2 m)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

WXS-RAM/RDAM

Battery-operated panoramic detector
WXS-RAM: 12m/180° battery-operated PIR with anti-masking
WXS-RDAM: 12m/180° battery-operated PIR/MW with anti-masking

Features
• Individual detection area and sensitivity setting (right/left)
• Adaptive IR digital anti-masking
• Selectable mounting height (0.8-1.2 m or 2 m)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

WXI-ST/AM

Panoramic outdoor detector
WXI-ST: 12m/180° PIR standard model
WXI-AM: 12m/180° PIR with anti-masking

Features
• Individual detection area and sensitivity setting (right/left)
• Active IR digital anti-masking (WXI-AM)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

WXI-R/RAM

Battery-operated panoramic detector
WXI-R: 12m/180° battery-operated PIR
WXI-RAM: 12m/180° battery-operated PIR with anti-mask

Features
• Individual detection area and sensitivity setting (right/left)
• Adaptive IR digital anti-masking (WXI-RAM)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

QXI-ST/DT

Wide angle outdoor detector
QXI-ST: 12m/ 120° PIR standard model
QXI-DT: 12m/ 120° PIR/MW with anti-blocking

Features
• Selectable mounting height (0.8-1.2 m or 2.2- 2.7 m)
• Anti-blocking (QXI-DT)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)
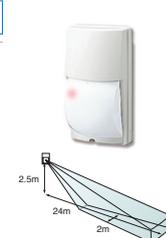• Selectable detection patterns

QXI-R/RDT

Battery-operated wide angle detector
QXI-R: 12m/ 120° battery-operated PIR
QXI-RDT: 12m/ 120° battery-operated PIR/MW

Features
• Selectable mounting height (0.8-1.2 m or 2.2-2.7 m)
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)
• Selectable detection patterns

LX-402

Weatherized outdoor detector
LX-402: Wide detection range model 12 x 15m 120°

Features
• Selectable detection patterns (pet alley or multi-level)
• Sensitivity selection switch (high, mid and low)
• Day and night mode
• Mounting height (1.2-1.5 m or 2.5 m)
• Note: small animal tolerance only in low mount.

LX-802N

Weatherized outdoor detector
LX-802: Long detection range model 24 x 2m

Features
• Selectable detection patterns (pet alley or multi-level)
• Sensitivity selection switch (high, mid and low)
• Day and night mode
• Mounting height (1.2-1.5 m or 2.5 m)
• Note: small animal tolerance only in low mount.

HX-40/40AM/40DAM

High mount outdoor detector
HX-40: 12m/85° PIR standard model
HX-40AM: Anti-masking model
HX-40DAM: PIR/MW model with anti-masking

Features
• Mounting height: 2.5 to 3m
• Intelligent AND detection logic
• Active IR digital anti-masking (HX-40AM/40DAM)

HX-40RAM

Battery-operated high mount outdoor detector
HX-40RAM: 12m/85° battery-operated PIR with anti-masking

Features
• Mounting height: 2.5-3m
• Intelligent AND detection logic
• Active IR digital anti-masking

HX-80N/80NAM

**High mount outdoor detector,
long and narrow range**

HX-80N: 24m/narrow standard model
HX-80NAM: Anti-masking model

Features
• Mounting height: 2.5 to 3m
• Intelligent AND detection logic
• Active IR digital anti-masking (HX-80NAM)

HX-80NRAM

**Battery-operated high mount outdoor detector,
long and narrow range**

HX-80NRAM – 24m/narrow battery-operated PIR with anti-masking

Features
• Mounting height: 2.5 to 3m
• Intelligent AND detection logic
• Active IR digital anti-masking

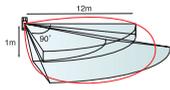**Third line of defense:** Protects the immediate boundary of the building

VXS-AM/DAM (W)

Wide angle outdoor detector
VXS-AM: 12m/90° PIR with anti-masking
VXS-DAM: 12m/ 90° PIR/MW with anti-masking

Features
• One touch opening cover
• Automatic walk test mode
• Double conductive shielding to filter sunlight and RFI/EMI
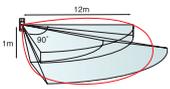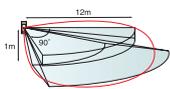• Temperature compensation and detection algorithm (SMDA logic)

VXS-RAM/RDAM (W)

Battery operated outdoor detector
VXS-RAM: Battery operated with anti-masking model
VXS-RDAM: 12m/90° battery-operated PIR/MW with anti-masking

Features
• One touch opening cover
• Automatic walk test mode
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

VXI-ST/AM/DAM

Multi dimensional outdoor detector
VXI-ST: 12m/90° PIR standard model
VXI-AM: 12m/90° PIR with anti-masking
VXI-DAM: 12m/90° PIR/MW with anti-masking

Features
• Temperature compensation and detection algorithm (SMDA logic)
• Easy masking for over spill prevention
• Double conductive shielding to filter sunlight and RFI/EMI
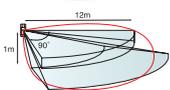• Active IR digital anti-masking (VXI-AM/VXI-DAM)

VXI-R/RAM/RDAM

Battery-operated outdoor detector
VXI-R: 12m/90° battery operated PIR standard model
VXI-RAM: 12m/90° battery-operated PIR with anti-masking
VXI-RDAM: 12m/90° battery-operated PIR/MW with anti-masking

Features
• Temperature compensation and detection algorithm (SMDA logic)
• Easy masking for over spill prevention
• Double conductive shielding to filter sunlight and RFI/EMI
• Active IR digital anti-masking (VXI-AM/VXI-DAM)
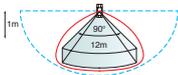• Tough MW module (VXI-RDAM)

VXI-ST/AM/DAM CMOD Kit

Outdoor detector with camera
VXI-ST/CMOD: 12m/ 90° standard model with camera
VXI-AM/CMOD: anti-masking model with camera
VXI-DAM/CMOD: Dual-technology model with antimasking and camera

Features
• 90-degree detection and 180-degree camera view
• Temperature compensation and detection algorithm (SMDA logic)
• Visual verification through the OPTEX Vision App
• Active IR digital anti-masking (VXI-AM/VXI-DAM)
• WiFi full HD videocamera with night vision
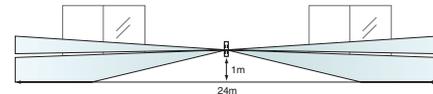• Pre and post alarm recording (2 seconds pre-alarm / 28 seconds post-alarm)

BXS-ST/AM (W)

Boundary outdoor detector
BXS-ST: 12m on each side standard model
BXS-AM: Anti-masking model

Features
• 4 PIR technology
• Active IR digital anti-masking (BXS-AM)
• Individual detection area and sensitivity setting (Right/Left)
• Extreme high detection mode
• Double conductive shielding to filter sunlight and RFI/EMI
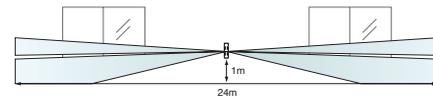• Temperature compensation and detection algorithm (SMDA logic)

BXS-R/RAM (W)

Battery-operated boundary outdoor detector
BXS-R: 12m on each side battery-operated model
BXS-RAM: battery-operated model with anti-masking

Features
• 4 PIR technology
• Active IR digital anti-masking (BXS-RAM)
• Individual detection area and sensitivity setting (Right/Left)
• Extreme high detection mode
• Double conductive shielding to filter sunlight and RFI/EMI
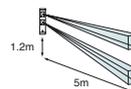• Temperature compensation and detection algorithm (SMDA logic)

FTN-ST/AM

Compact outdoor detector
FTN-ST: 2PIRs standard model
FTN-AM: Active IR digital anti-masking model

Features
• Intelligent AND detection logic
• Built in bracket (190˚ horizontal)
• 5m/2m switchable lens
• Double conductive shielding to filter sunlight and RFI/EMI
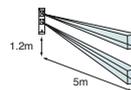• Temperature compensation and detection algorithm (SMDA logic)

FTN-R/RAM/R-PT

Battery-operated compact outdoor detector
FTN-R: Battery-operated model
FTN-RAM: battery-operated model with anti-masking
FTN-R-PT: includes larger back box for easier installation

Features
• Long battery life
• 5m/2m switchable lens
• Multi fixing separate box for wireless transmitter
• Double conductive shielding to filter sunlight and RFI/EMI
• Temperature compensation and detection algorithm (SMDA logic)

BX-100PLUS

Photoelectric detector for building perimeter
Detection range: 30m

Features
• Dual IR pulsed beam system
• Internal sounder
• N.O. and N.C. relay output
• Attractive and slender design
• Easy alignment with visual and audible indicator

Optional accessories

BH-01

Battery holder for:
• WXS-R/RDAM
• WXI-R/RAM

BXS Back box

White/ Silver/ Black back box for:
• BXS-ST/AM/R/RAM

BXS Back box cap

White/ Silver/ Black back box cap for:
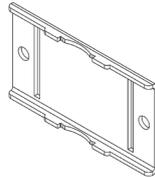• BXS-R/RAM

BXS Face cover

White/ Silver/ Black face cover for:
• BXS-ST/AM/R/RAM

BXS Pole mount plate

Metal band: 23mm or less in width

For:
• BXS-ST/AM/R/RAM

CA-1W (W)

Multi Angle wall-mount bracket for:
• QXI-ST/DT/R/RDT

CA-2C (W)

Ceiling mount bracket for:
• QXI-ST/DT/R/RDT

CMOD

Wireless HD camera module with 180 panoramic angle

For:
• VXI-ST/AM/DAM

MG-1

Vandal and Tamper Resistant Metal Guard for:
• BX-100PLUS

MKP-01

Area masking plate for:
• WXS-AM/DAM/R/RDAM
• WXI-ST/AM/R/RAM

PEU

Plug-in EOL for:
• WXS-AM/DAM
• WXI-ST/AM
• VXS-AM/DAM
• VXI-ST/AM/DAM
• BXS-ST/AM

PMP-01

Pole mount plate for:
• WXS-AM/DAM/R/RDAM
• WXI-ST/AM/R/RAM

RBB-01

Battery box for:
• VXI-R/RAM/RDAM
• VXS-RAM/RDAM
• BXS-R/RAM
• HX-40R/RAM/RDAM
• HX-80NRAM

VXI-T-Bracket

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

T-Bracket for:
• VXI-ST/AM/R/RAM

VXS Battery box

Black/ White battery box for:
• VXS-R/RAM

VXS Face cover

White/ Silver/ Black face cover for:
• VXS-ST/AM/R/RAM

VXS option cover unit

Black/ White cover unit for:
• VXS-ST/AM/R/RAM

WC-1

White decorative cover for:
• BX-100PLUS

WRS-02

Wall tamper for:
• VXI-ST/AM/DAM
• FTN-ST/AM

WRS-03

Wall tamper for:
• FTN-R/RAM
• FTN-ST/AM
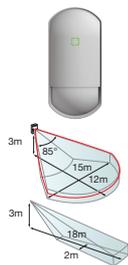
WRS-04

Wall tamper for:
• VXI/RAM/RDAM

WXI-BB

Back box for adding wireless transmitter to:
• WXS-AM/DAM/R/RDAM
• WXI-ST/AM/R/RAM

Fourth line of defense: Protects building indoor and assets

FLX-S-ST/DT
80 zones

Grade 2 wide/narrow indoor detector
FLX-S-ST: 12m wide/ 18m narrow detection standard model
FLX-S-DT: PIR/MW model

Features
• Flip lens for wide/narrow detection
• Advanced pyro with human-catch element
• Flexible mounting height 2 m - 3 m
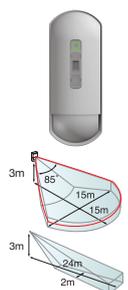• Temperature compensation and detection algorithm (SMDA logic)

FMX-ST/DT/SDT
78 zones

Grade 2 wide indoor detector
FMX-ST: 15 m standard model
FMX-DST: model with double conductive filter
FMX-DT: 15 m PIR/MW model

Features
• Remote LED control
• Advanced temperature compensation logic
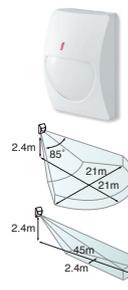• Double conductive filter (FMX-DST)

FLX-A-AM/DAM
80 zones

Grade 3 wide/narrow indoor detector
FLX-A-AM: 15m wide/ 24m narrow detection PIR with anti-masking
FLX-A-DAM: PIR/MW model with anti-masking

Features
• Flip lens for wide/narrow detection
• Advanced pyro with human-catch element
• Flexible mounting height 2 m - 3 m
• Active IR digital anti-masking
• Super-high detection mode
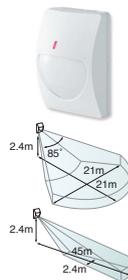• Temperature compensation and detection algorithm (SMDA logic)

CX-702
68 zones

Long-range indoor PIR detector

Features
• Dual purpose lenses for wide/narrow detection
• Double conductive shielding
• Multi focus technology

CX-702RS
68 zones

Battery-operated long-range PIR detector

Features
• Dual purpose lenses for wide/narrow detection
• Double conductive shielding
• Multi focus technology

CX-702MKII
136 zones

Grade 2 long-range indoor PIR detector

Features
• Dual purpose lenses for wide/narrow detection
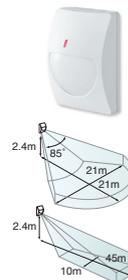• Double conductive shielding
• Multi focus technology

SX-360
276 zones

Grade 2 Ceiling mount PIR detector 360-degree

Features
• Patented Multi-focus lens
• False alarm protection
• Area pattern adjustment/Zoom Function

FX-360
62 zones

Grade 2 Ceiling mount PIR detector 360-degree

Features
• False alarm protection
• Originally designed hard spherical lens
• Durable and compact design

Optional accessories

CA-2C	CA-1W	CW-G2	CW-G3
Multi Angle ceiling mount bracket for • CX-702 • CX-702RS • CX-702MKII	**Multi Angle Wall Mount Bracket for** • CX-702 • CX-702RS • CX-702MKII	**Multi Angle Wall and Ceiling Mound Bracket** **(EN-Grade II) for:** • FLX-S-ST/DT	**Multi Angle Wall and Ceiling Mound Bracket** **(EN-Grade III) for:** • FLX-A-AM/DAM

EOL resistor plug		BA-70	FA-3
	Fixed Alarm / Trouble / Tamper resistance values used with popular panel manufacturers.	**Back cover for** • CX-702	**Multi Angle Wall/ Ceiling Mount Bracket for** • FMX-ST/DT/SDT

OPTEX has been developing sensing technologies for over forty years and has been a pioneer in outdoor intrusion detection. Today, OPTEX sensors are successfully deployed protecting millions of locations around the globe.

OPTEX has developed a system of enhanced detection to provide maximum security against unauthorised entry. This system creates a defence line incorporating three warning levels in the outside: PERIMETER PROTECTION, APPROACH PROTECTION and BOUNDARY PROTECTION, and is completed with INDOOR PROTECTION allowing to locate faster intruders and protect assets in the inside.

OPTEX
Sensing Innovation

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