OPTEX

BEAMS & ENCLOSURES

ACTIVE INFRARED — PERIMETER DETECTION

Active Infrared
PHOTOELECTRIC BEAM DETECTORS

FIRST LINE OF DEFENSE

Security starts at the perimeter, or the 'A Zone', and OPTEX has built its reputation on a proven first line of defense. Our point-to-point photoelectric detection solutions give you full protection, creating a virtual trip wire at the perimeter. With multiple options and features for all threat levels, including battery-powered beams that require no trenching or wiring and tower enclosures for stacking and hiding beam height and location, OPTEX provides you with flexibility and choice based on your perimeter security needs.

PHOTOBEAM PART NUMBER GUIDE

SL-200TNR

Twin Beam

Single channel frequency

AX-200TFR

Four channel frequency

Ready for wireless, battery-powered (Batteries included, accepts most manufacturers' wireless transmitters)

SL-200QDP

Quad Beam

Detection range in feet

SL-350QFRi

Detection range in feet

iSeries wireless, battery-powered (Inovonics EN1941 transmitter & batteries included)

SL-650QDM

Slimline design

Dual modulation

FEATURES & VALUE

QUICK FEATURES GUIDE

Beam detection range shouldn't be the only feature you look at when selecting an OPTEX photobeam. Review the additional features below to find the right detector for your photobeam application.

### "Beam alignment over long distances is troublesome."
Solution: Sniper Viewfinder & BAU-4 Auto Alignment Unit

The **Sniper viewfinder** includes x2 magnification over conventional photobeam models. This allows for high visibility during the alignment process, even over long distances. The optional **BAU-4** Auto Beam Alignment Unit automatically and accurately adjusts the optical access to peak performance, allowing one technician the ability to align long distances beams without additional help.

For All SL Models

"I want to stack my photobeams for added protection."
Solution: Four Channel Selectable Beam Frequencies
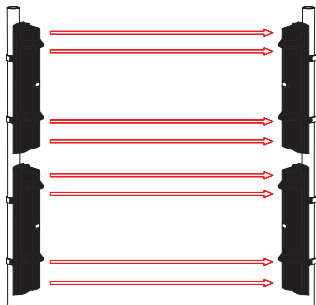
Require extra protection at the perimeter? Choose a photobeam detector that has four channel selectable frequency and stack two of them on a pole or better yet, in an AX-TW200 Beam Enclosure.

AX-100TF, AX-200TF, AX-100TFR, AX-200TFR, AX-100TFRi, AX-200TFRi, SL-350QFR, SL-350QFRi, SL-200QDP, SL-350QDP, SL-650QDP, SL-200QDM, SL-350QDM, SL-650QDM

"Getting power to perimeter is too expensive."
Solution: Battery-Operated Models

To combat costly trenching and labor, or in situations where power is not available, choose one of OPTEX's wireless ready, battery operated models. Mount them in the AX-TW200 beam tower for a completely wireless and secure perimeter.

AX-100TFR, AX-200TFR, AX-100TFRi, AX-200TFRi, SL-350QFR, SL-350QFRi

"Fog, snow, & heavy rain can be an issue at my job site."
Solution 1 : D.Q. Output (Environmental Disqualification)

D.Q. output will send a trouble signal when the beam strength is below acceptable levels, for more than 20-40 seconds, due to fog, snow or heavy rain.

AX-100TF, AX-200TF, AX-100TFR, AX-200TFR, AX-100TFRi, AX-200TFRi, SL-350QFR, SL-350QFRi, SL-350QDP, SL-650QDP, SL-350QDM, SL-650QDM

Solution 2 : A.T.C.P. (Automatic Transmit Power Control)

The A.T.C.P. feature 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.

SL-350QDM

Hardwired Beam Considerations

Keeping these tips in mind will greatly reduce false and missed alarms caused by improper installation.

Distance
The longer the distance, the bigger the voltage drop. Drops in voltage can lead to missed and false alarms. For longer runs, use thicker gauge wire. (Max 18 gauge)

Power Supply
When selecting your photobeam's power supply, make sure to choose one with the correct Amps to cover the beam's current consumption.

Wiring
Choose the correct wiring conductor based on the outputs you want monitored. (Tamper, Alarm, D.Q. Circuit, Power; varies by model)

Zoning
Although photobeams can be installed in series, home runs are always recommended. This allows for easier troubleshooting and zones to be identified when an alarm occurs.

Battery-Powered Value

Cost
In the majority of cases, applications such as utility substations and large parking lots can be too expensive or labor intensive to trench.

Power
Battery-Powered beams can be installed in areas where power is not readily available, such as roof tops or remote locations.

Installation Downtime
Because of the significant drop in installation time and the fact that no trenching is required, end-users are less inconvenienced. Businesses and residents can operate as usual during the install.

Flexible
In environments where storage conditions may change, such as construction sites and storage facilities, battery-powered beam options allow the detection area to move accordingly with minimal effort.

Upgrade
Battery-powered beam options can easily be added on to existing security, video or access systems.
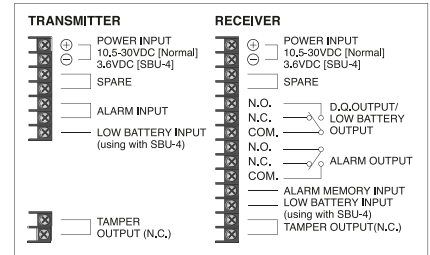
Active Infrared
PHOTOELECTRIC BEAM DETECTORS

PROFESSIONAL MODEL
SL-200QDM / 350QDM / 650QDM

- High power quad beam
- Double modulation
- Beam power control selector
- Automatic transmit power control
- Integrated alignment status comm
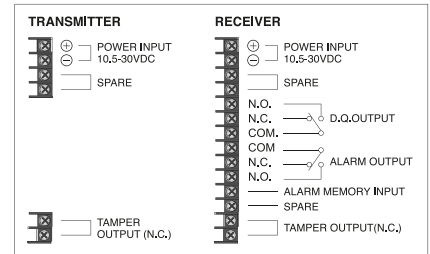- Upper/lower beam selection button
- Beam power control selector

Model	SL-200QDM	SL-350QDM	SL-650QDM
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 26mA / Max. 40mA		30mA / 43mA
Operating temperature	-30°F to 140°F(-35°C to +60°C) -30°F(-35°C) w/ HU-3 Heater		
Water protection	IP65		
Dimensions H x W x D	17.6 x 3.1 x 3.8 in (448 x 79 x 96 mm)		
Weight	88.2oz (2500g)		

TRANSMITTER
POWER INPUT 10.5-30VDC [Normal] 3.6VDC [SBU-4]
SPARE
ALARM INPUT
LOW BATTERY INPUT (using with SBU-4)
TAMPER OUTPUT (N.C.)

RECEIVER
POWER INPUT 10.5-30VDC [Normal] 3.6VDC [SBU-4]
SPARE
N.O.
N.C.
COM.
D.Q.OUTPUT/ LOW BATTERY OUTPUT
N.O.
N.C.
COM.
ALARM OUTPUT
ALARM MEMORY INPUT
LOW BATTERY INPUT (using with SBU-4)
TAMPER OUTPUT(N.C.)

ADVANCED LEVEL
SL-200QDP / 350QDP / 650QDP

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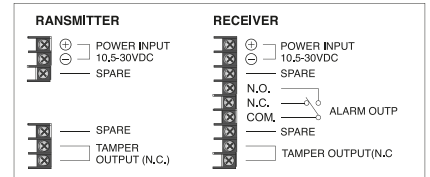- Beam power control selector

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		22mA / 33mA
Operating temperature	-30°F to 140°F(-35°C to +60°C) -30°F(-35°C) w/ HU-3 Heater		
Water protection	IP65		
Dimensions H x W x D	17.6 x 3.1 x 3.8 in (448 x 79 x 96 mm)		
Weight	84.6oz (2400g)		

TRANSMITTER
POWER INPUT 10.5-30VDC
SPARE
TAMPER OUTPUT (N.C.)

RECEIVER
POWER INPUT 10.5-30VDC
SPARE
N.O.
N.C.
COM.
COM.
N.C.
N.O.
D.Q.OUTPUT
ALARM OUTPUT
ALARM MEMORY INPUT
SPARE
TAMPER OUTPUT(N.C.)

STANDARD MODEL
SL-200QN / 350QN / 650QN

- High power quad beam
- Smart design — slim body & vivid interior color

Model	SL-200QN	SL-350QN	SL-650QN
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	-		
Current consumption	38mA	39mA	40mA
Operating temperature	-13°F to 140°F (-25°C to +60°C) -30°F(-35°C) w/ HU-3 Heater		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	84.6oz (2400g)		

RANSMITTER
POWER INPUT 10.5-30VDC
SPARE
SPARE
TAMPER OUTPUT (N.C.)

RECEIVER
POWER INPUT 10.5-30VDC
SPARE
N.O.
N.C.
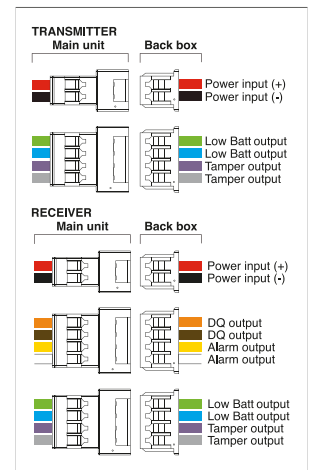COM.
ALARM OUTP
SPARE
TAMPER OUTPUT(N.C

PROFESSIONAL MODEL   ADVANCED MODEL
SL-350QFRI & SL-350QFR

powered by INOVONICS

- Long distance 350ft (100m)
- Long battery life — 4 to 8 years
- Spacious back box for wireless transmitter
- Inovonics EN1941 included on SL-350QFRi model

Model	SL-350QFRi	SL-350QFR
Detection range	100m/350ft.	100m/350ft.
Beam frequencies	4ch selectable	4ch selectable
Power source	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 (A total of 4 batteries are included)	
Wireless Transmitter	Inovonics EN1941 Included	Not Included
Current consumption	745µA	
Operating temperature	-4°F to 140°F (-20°C to +60°C)	
Water protection	IP65	
Dimensions H x W x D	17.9 x 3.3 x 5.4 in (452 x 83 x 138 mm)	
Weight	116.4oz (3300g)	

*Transmitters shown not included
*2 batteries per side included
*2 additional batteries per side can be added

TRANSMITTER
Main unit | Back box
Power input (+)
Power input (-)
Low Batt output
Low Batt output
Tamper output
Tamper output

RECEIVER
Main unit | Back box
Power input (+)
Power input (-)
DQ output
DQ output
Alarm output
Alarm output
Low Batt output
Low Batt output
Tamper output
Tamper output

SL SERIES FEATURES

High Immunity Against False Positives & Missed Alarms
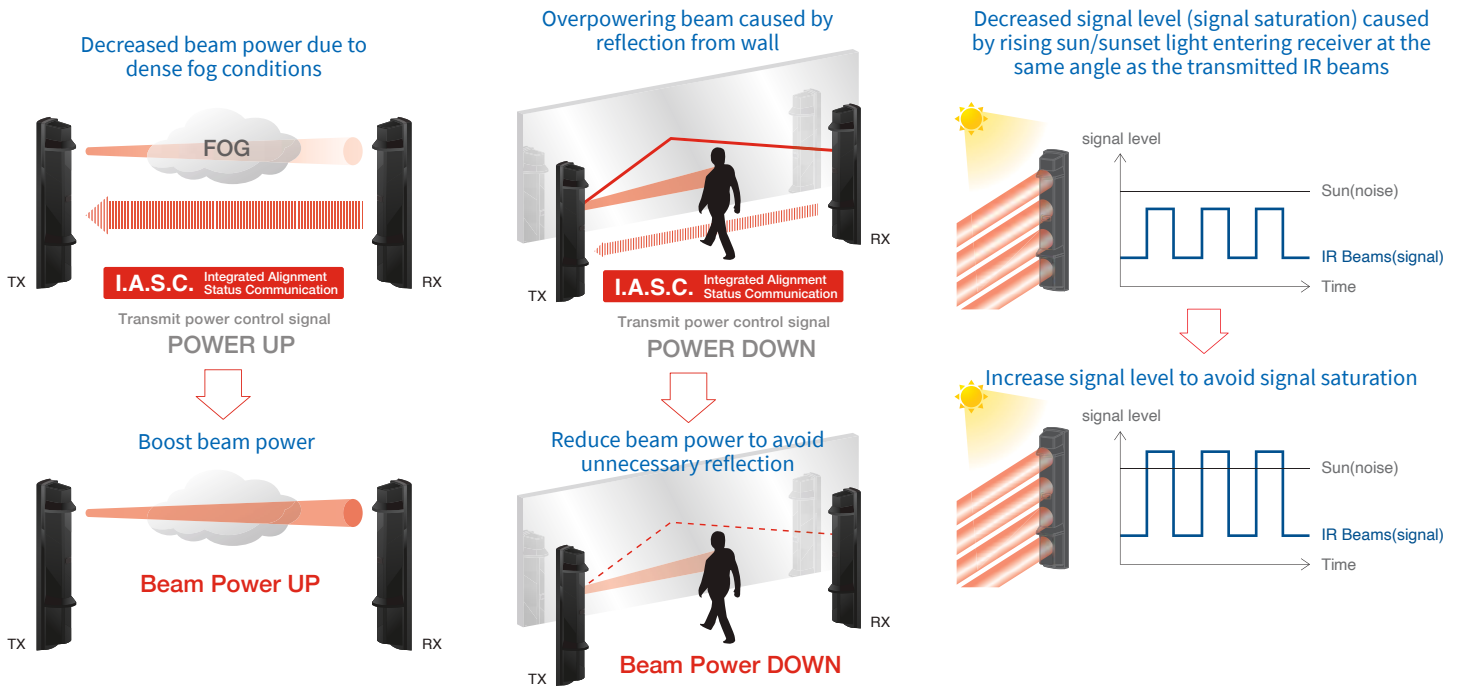
Sniper Viewfinder ™

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.
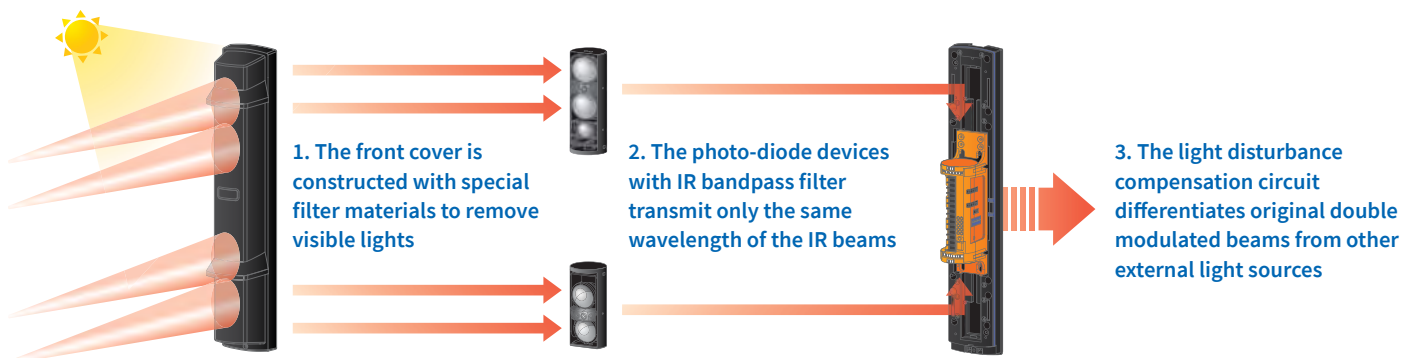
A.T.P.C. — Automatic Transmit Power Control (SL-QDM only)

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.

Decreased beam power due to dense fog conditions

FOG

TX | RX

I.A.S.C. Integrated Alignment Status Communication

Transmit power control signal
POWER UP

Boost beam power

Beam Power UP

TX | RX

Overpowering beam caused by reflection from wall

TX | RX

I.A.S.C. Integrated Alignment Status Communication

Transmit power control signal
POWER DOWN

Reduce beam power to avoid unnecessary reflection

Beam Power DOWN

TX | RX

Decreased signal level (signal saturation) caused by rising sun/sunset light entering receiver at the same angle as the transmitted IR beams

signal level

Sun(noise)

IR Beams(signal)

Time

Increase signal level to avoid signal saturation

signal level

Sun(noise)

IR Beams(signal)

Time

Sunshine Protection Technology (SL-QDM & QDP only)

The sunshine protection technology has a triple layer construction to give better performance against external light sources, such as from the sun, fluorescent lighting, and mercury-vapor lamps.

1. The front cover is constructed with special filter materials to remove visible lights

2. The photo-diode devices with IR bandpass filter transmit only the same wavelength of the IR beams

3. The light disturbance compensation circuit differentiates original double modulated beams from other external light sources

Double-Sided & Single-Sided
BEAM ENCLOSURES

The TW-Series beam enclosures are suited for all OPTEX AX & SL Series wired, IP, and wireless battery-powered infrared beams models

Concealing active infrared beams in enclosures increases the security and flexibility of perimeter protection systems

OPTEX Dual & Quad IR beams can be mounted directly on walls or poles, however by installing them in enclosures, it makes them less obvious. The number and height of the fitted beams becomes unknown to the potential intruders, enhancing the security level.

- Free standing AX-TW models provide 360° unobstructed view for the beams, enabling back to back installation to cover a whole perimeter.

- Free-standing AX-TWS models provide 180° view enabling side detection for sites where wall mount is not a possible or practical option.

- Wall-mounted AX-TWM models feature 180° view and flush mount.

- 3'3" / 6'6" height options available.

- Durable construction with extruded and anodized aluminum frame and acrylic materials.

- Beams can be mounted at any height and direction in the tower.

- Additional housing and fixings for lighting or fixed cameras available as options.

- Anti-tamper and beam mounting plates included.

- Suitable for all wired, IP, and wireless OPTEX AX & SL (Smart Line) models. (Consult with us for the list of accessories needed)

- Enclosure assembly included at no charge when site plan is provided.

AX-TWCAM

AX-TW200

AX-TWLUXE

AX-TW100
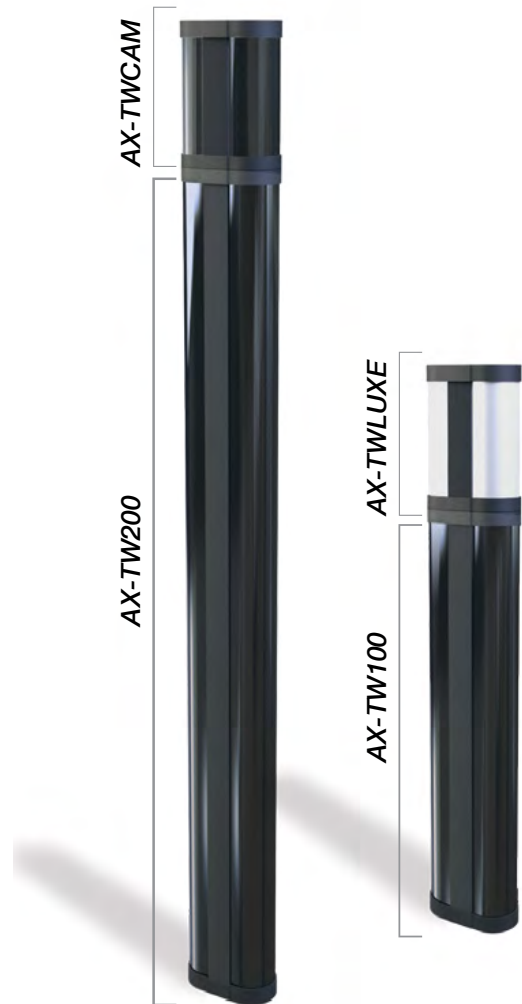
BUILD & CUSTOMIZE

Select Your Beams

Select beams by distance and features. All OPTEX beams can be mounted in the AX-TW enclosures. Beam models are based on detection distance for outdoor ratings (indoors can be doubled). Do you need adjustable frequencies? Double stacked or single?
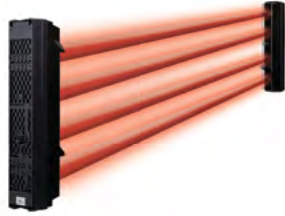
Choosing Beam Mounting Enclosure

OPTEX offers 2 enclosure options for mounting beams: 1) Double-sided, for multiple beginning/ending points or long distances, and 2) Single-sided, for point-to-point applications. Once you've decided on the teams, select the option that best fits your application.

Select Enclosure Height

OPTEX offers 2 enclosure options for mounting beams: 1) Double-sided, for multiple beginning/ending points or long distances, and 2) Single-sided, for point-to-point applications. Once you've decided on the teams, select the option that best fits your application.

6'6"

3'3"
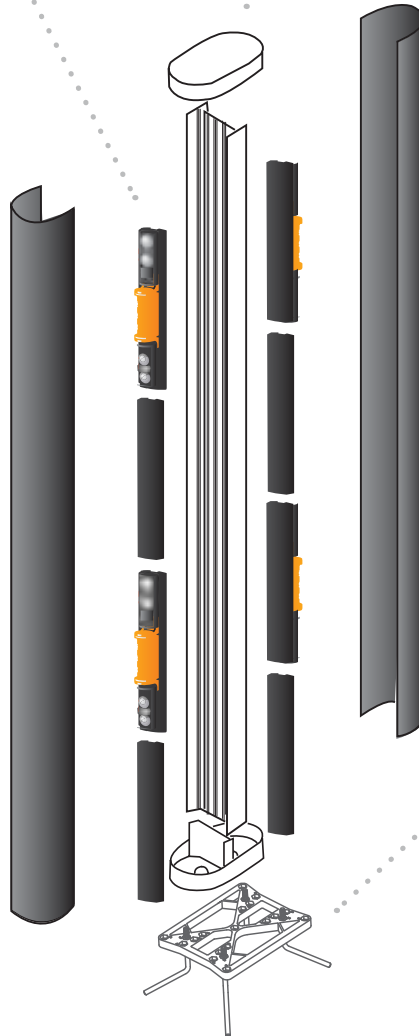
Choose Accessories

Depending on the environmental conditions, applications and security level, OPTEX offers accessories to enhance your perimeter system.

Mounting brackets set in concrete/asphalt, heaters, and anti-climb tampers are all examples of accessories for your beam enclosure.
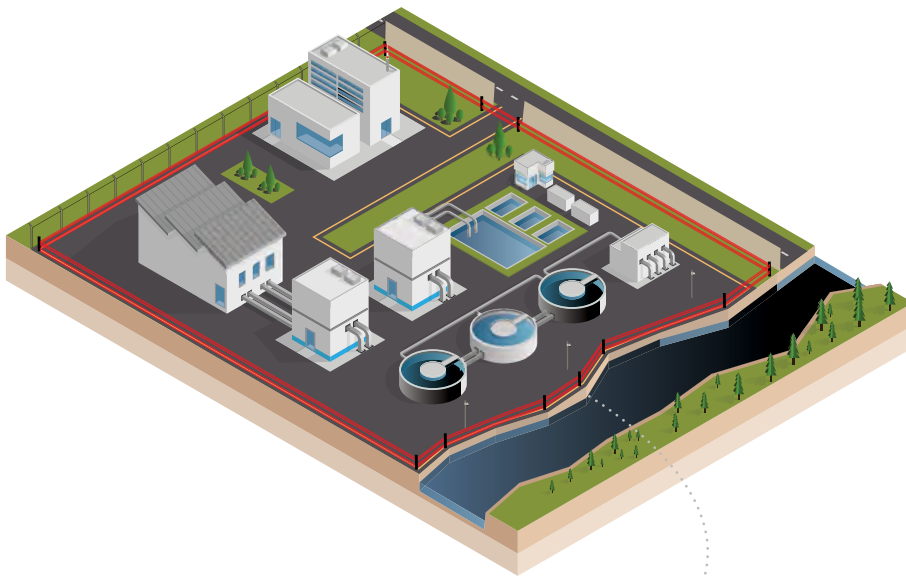
Pre-Assembly

When a site plan is provided, OPTEX technicians will pre-assemble our photo-electric beams and tower enclosures to match your customers' specifications. As long as a site plan is provided, this service will not be charged.

BATTERY-POWERED, WIRELESS & IP SOLUTIONS

Battery-Powered, Wireless Solution

Save Time & Money

From rooftop HVAC protection to electrical substations, the wireless-ready, iSeries photobeams, and enclosures from OPTEX can offer you a battery powered, wireless solution for all your security needs. While the wireless-ready versions are shipped with an empty backbox that will accept any manufacturer's wireless transmitter, the iSeries come with Inovonics EN1941 wireless transmitters pre-installed, allowing even more time saved while on the job site. The EN1941 monitors the DQ circuit, tamper and primary alarm, while an included BCU-4 module monitors for low battery. A total of four lithium batteries are also included to power the beams.

Value of a Wireless-Ready Battery-Powered System

- Easy solution to sites where trenching is too expensive or labor intensive.

- Can be installed in areas where power is not readily available.

- No downtime to end-user. Businesses & residents can operate as usual during install.

- Allows for a flexible solution in changing site environments, such as construction sites.

- Can easily be added on to support existing video or access systems.

Any Intrusion or Access Panel with Hardwired Inputs

inovonics
EN5040T Repeater

*If repeater is mounted outdoors, ACC650 enclosure is required
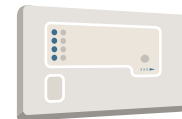
inovonics
EN4232MR Receiver

EN7290 Receiver/ Interface for VISTA 128/250
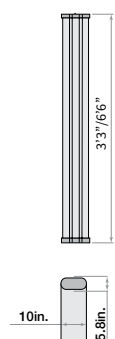
Any PC Application
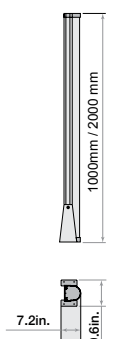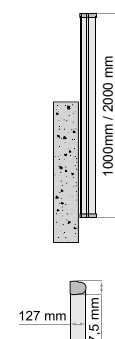
IP Solution
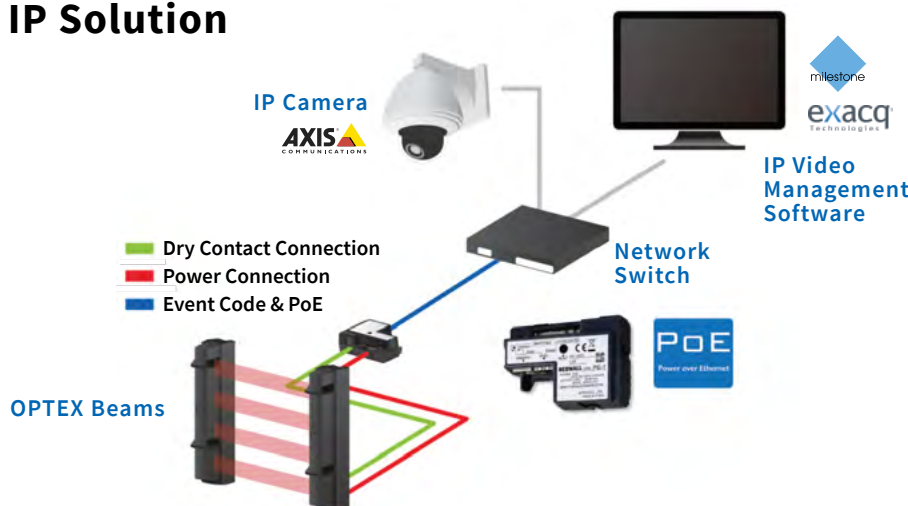
Sensing Solutions For IP Systems

When PIE-1 IP encoders are combined with OPTEX beams & enclosures, a complete IP powered detection solution is achieved. You can now connect to all leading VMS platforms to control IP cameras, and PIE-1 is compatible with Power over Ethernet (PoE), making it possible to supply power using a PoE hub or switch. With the PoE connection, alarm signal information can be exchanged via IP protocol. In addition, only one LAN cable is needed to connect PIE-1 to a PoE hub or switch, reducing installation time & cost.

IP Camera
AXIS COMMUNICATIONS

milestone
exacq Technologies

IP Video Management Software

- Dry Contact Connection
- Power Connection
- Event Code & PoE

Network Switch

OPTEX Beams

PoE
Power over Ethernet

BEAM ENCLOSURE PART NUMBERS

Beam Enclosure Cover	TW 360°	STW 180°	STWM 180°
	Free-Standing Beam Enclosures	Free-Standing Beam Enclosures	Wall-Standing Beam Enclosures

3'3"/6'6"   1000mm / 2000 mm   1000mm / 2000 mm

6in.   10in. 5.8in.   7.2in. 9.6in.   127 mm 147.5 mm

AX-TW(S)(M)	AX-TW	AX-TWS	AX-TWM

Ground Mounting, 360°		Ground Mounting, 180°		Wall Mounting, 180°	
				Flush Mount	
AX-TW100	3'3" 360° Beam Tower Floor	AX-TW100S	3'3" 180° Beam Tower Floor	AX-TW100M	3'3" 180° Wall Mount Beam Tower
AX-TW200	6'6" 360° Beam Tower Floor (standard height)	AX-TW200S	6'6" 180° Beam Tower Floor	AX-TW200M	6'6" 180° Wall Mount Beam Tower

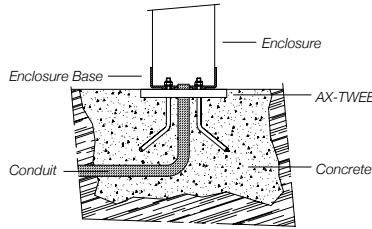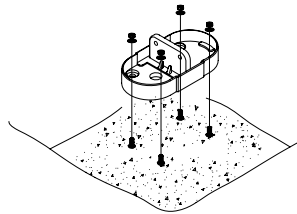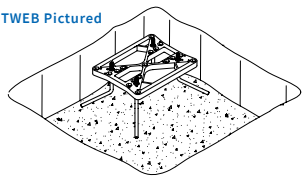## Exterior Installation Mounting for Enclosures

When using a free-standing tower, the AX-TWEB allows for secure concrete mounting, even in uneven soil and the harshest of environments.

Dig an 18" x 18" x 18" (minimum) hole. Add rebar or support if needed and pour concrete (for TWEB bracket) or asphalt (for TWEB-A bracket). Insert bracket and cable access conduit while concrete/asphalt is still wet.

TWEB Pictured

With included red head bolts, secure enclosure base to bracket bold heads (Bolts can also be added to existing concrete/asphalt)

With included red head bolts, secure enclosure base to bracket bold heads (Bolts can also be added to existing concrete/asphalt)

Enclosure

Enclosure Base

AX-TWEB

Conduit

Concrete

Common Accessories

AX-TWLUXE	AX-TWEB	AX-TWH24V	AX-TWSSL	AX-TWCAM
Tower head extension for lighting (12V light bulb not included)	Concrete support bracket for free-standing enclosures on pads	12V or 24V, 250mA, non-polarity heater & thermostat	Bracket for SL & AX-TFR series (set)	CCTV extension head for enclosure (Camera not included)

AX-TWAA	AX-TWEB-A	AX-TWCAB	AX-TWSM	BAU-4
Anti-climb top tamper	Asphalt support bracket for free-standing enclosures on pads	Guy wires for photobeam enclosures in extreme wind conditions	Pole/wall mount L bracket for AX-TW50, 100, 200, & 300	Automatic beam-alignment tool (only compatible with SL series)

TOTAL SECURITY SOLUTIONS

HIGH SECURITY LASER DETECTION

Use laser technology from OPTEX to create a horizontal plane or vertical wall with four outputs for remote video applications and 8 independently adjustable detection areas. The **REDSCAN RLS-3060SH** is the ideal detector for controlling network cameras and can be integrated with leading VMS platforms, access control systems and analog control panels.

RLS-3060SH

AX-TW200
6'6" double sided
Free-standing beam
enclosure

AX-TW200
6'6" double sided
Free-standing beam
enclosure

SL-350QFRi
iSeries battery-powered wireless photobeams

SL-350QFRi
iSeries battery-powered wireless photobeams

inovonics

EN5040T Repeater
EN7290 Receiver
ACC650 Enclosure
(Outdoor use)
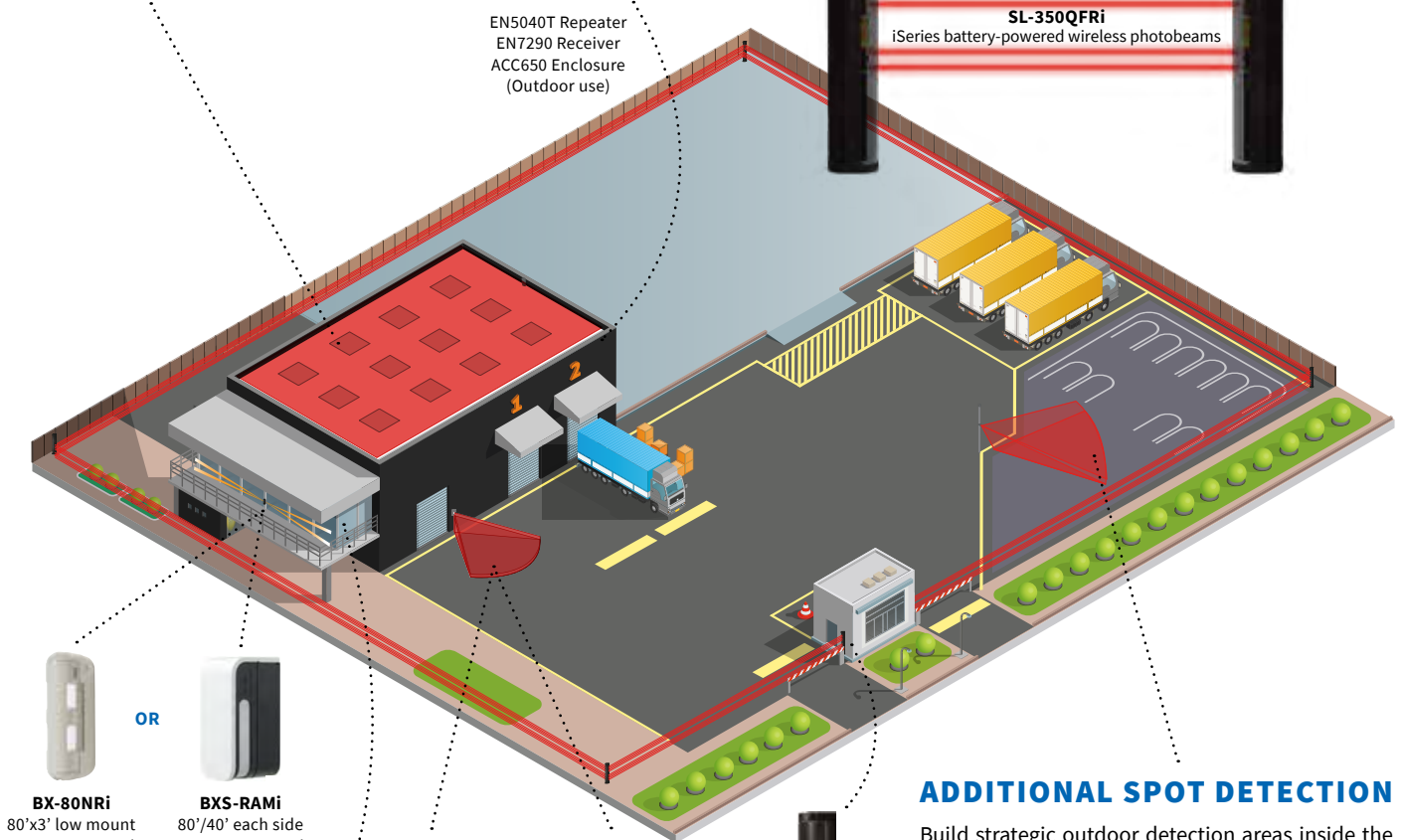
BX-80NRi
80'x3' low mount
Battery-powered
Outdoor dual PIR

OR

BXS-RAMi
80'/40' each side
Battery-powered
Anti-masking
Outdoor quad PIR

VXI-RDMi
40'x40' low mount
Battery-powered
Outdoor dual tech

OR

VXI-RAMi/RDAMi
40', 90° low mount
Battery-powered
Anti-masking
Outdoor PIR/dual tech

inovonics

EN4232MR Receiver
EN7290 Receiver

ADDITIONAL SPOT DETECTION

Build strategic outdoor detection areas inside the perimeter and throughout the property, without running wires for power or signal. In addition, OPTEX passive infrared and dual technology detectors can trigger cameras, lights, or be used to notify the authorities when motion is detected.

HX-40RAMi
40'x50' high mount
Battery-powered
Outdoor dual PIR

No
detection

No
detection

No
detection

No
detection
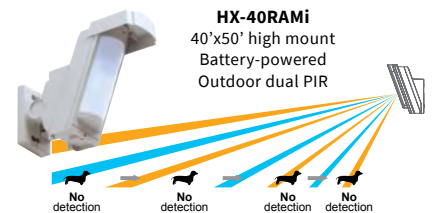
AX-TW200M
6'6" single sided, wall mount beam enclosure

CONTACT US

From residential to critical infrastructure, OPTEX has the right solution for any application & environment.

With indoor and outdoor detection options for every threat level, OPTEX provides you with flexibility and choice based on your perimeter security needs. Since its founding over 30 years ago, OPTEX has established a worldwide reputation for quality, innovation, and technical excellence. Out products will always represent an investment in performance, and long term satisfaction.

NOTES

OPTEX

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ENCLOSURES

Hybrid, Battery-Powered, & Wireless Options

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6'6" TOWERS
AX-TW200
AX-TW200S
AX-TW200M

3'3" TOWERS
AX-TW100
AX-TW100S
AX-TW100M

( ) = Double Sided, Free Standing
(S) = Single Sided, Free Standing
(M) = Single Sided, Wall Mount

USE THIS BEAM IF (SL-100/200 TNR)
One beam unit is close to main power source but other beam unit needs to be wireless
- Power is not available
- Shorter distance is required
- DQ Circuit is needed

USE THIS BEAM IF (AX-100TFR)
- Trenching is too expensive
- Trenching is not an option
- Power is not available
- Double stacking is needed
- Shorter distance is required
- DQ Circuit is needed

USE THIS BEAM IF (AX-200TFR)
- Trenching is too expensive
- Trenching is not an option
- Power is not available
- Double stacking is needed
- Long distance is required
- DQ Circuit is needed

USE THIS BEAM IF (SL-350QFR)
- Power to both sides is avail.
- Shorter distance is required
- Double stacking is not required
- Multiple sets are not used

USE THIS BEAM IF (Standard/Advanced)
- Power to both sides is avail.
- Long distance is required
- Double stacking/long runs needed
- Harsh environment at site
- Manual beam power adjust. needed
- DQ Circuit is needed

USE THIS BEAM IF (Professional)
- Power to both sides is avail.
- Long distance is required
- Double stacking/long runs needed
- Harsh environment at site
- A.T.P.C. feature is needed
- Better false alarm immunity

	SL-100TNR / SL-100TNRi	SL-200TNR / SL-200TNRi	AX-100TFR / AX-100TFRi	AX-200TFR / AX-200TFRi	SL-350QFR / SL-350QFRi	SL-200QN	SL-350QN	SL-650QN	SL-200QDP	SL-350QDP	SL-650QDP	SL-200QDM	SL-350QDM	SL-650QDM
	Hybrid Powered; Includes Inovonics EN1941 transmitter and batteries	Hybrid Powered; Includes Inovonics EN1941 transmitter and batteries	Includes batteries; Includes Inovonics EN1941 transmitter and batteries	Includes batteries; Includes Inovonics EN1941 transmitter and batteries	Includes batteries; Includes Inovonics EN1941 transmitter and batteries	Standard Models			Advanced Models			Professional Models		
Outdoor detection range	100ft	200ft	100ft	200ft	350ft	200ft	350ft	650ft	200ft	350ft	650ft	200ft	350ft	650ft
Beam	Twin	Twin	Twin	Twin	Quad	Quad	Quad	Quad	Quad	Quad	Quad	Quad	Quad	Quad
Beam blocking ratio	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
4ch. selectable freq.	3	3	3	3	3	No	No	3	3	3	3	3	3	3
Alignment angle	+/-90° Horiz., +/-5° Vert	+/-90° Horiz., +/-5° Vert	+/-90° Horiz., +/-5° Vert	+/-90° Horiz., +/-5° Vert	+/-90° Horiz., +/-5° Vert	+/-90° Horiz., +/-10° Vert			+/-90° Horiz., +/-10° Vert			+/-90° Horiz., +/-10° Vert		
LED indicator	4step LED indicator	4step LED indicator	4step LED indicator	4step LED indicator	4step LED indicator	5 Step with sound assist			5 Step with sound assist			5 Step with sound assist		
Monitor jack for align.	3	3	3	3	3	3			3			3		
Beam alignment method	Viewfinder	Viewfinder	Viewfinder	Viewfinder	Sniper viewfinder™	Sniper viewfinder (Included) / BAU-4 Beam Alignment Unit (Optional)								
Automatic gain control	No	No	No	No	No	No			No			No		
Lighting protection	Yes, Wirefree operation	Yes, Wirefree operation	Yes, Wirefree operation	Yes, Wirefree operation	3over14kV	3over14kV			3over14kV			3over14kV		
Environment DQ	3	3	3	3	3	No			3			3		
Power supply	3.6V 13.0Ah LSH20 lithium batteries (For Hybrid: 2 included for Transmitter Unit)		3.6V 13.0Ah LSH20 lithium batteries (4 included)		3.6V 13.0Ah LSH20 lithium batteries (4 included)	10.5 - 30V DC			10.5 - 28V DC			10.5 - 28V DC		
Current draw (Peak)	500µA	600µA	620µA	810µA	745µA	38mA max. / 39mA max. / 40mA max.			24mA max. / 33mA max.			40mA max. / 43mA max.		
Alarm output	FormC	FormC	FormC	FormC	FormC	Form C relay: 30VDC, 0.2 A			Form C relay: 30 VDC, 0.2A			Form C relay: 30 VDC, 0.2A		
Tamper	3	3	3	3	3	3			3			3		
Alarm memory	—	—	—	—	—	—			—			—		
Anti-frost design	3	3	3	3	3	3			3			3		
Optional heating unit	HU-3, Requires local power	HU-3, Requires local power	HU-3, Requires local power	HU-3, Requires local power	HU-3, Requires local power	HU-3			HU-3			HU-3		
International protection	IP65	IP55	IP55	IP65	IP65	IP65			IP65			IP65		
Operation temperature	-4° to 140°F (-20 to 60°C)	-4° to 140°F (-20 to 60°C)	-4° to 140°F (-20 to 60°C)	-4° to 140°F (-20 to 60°C)	-31° to 140°F (-35 to 60°C)	-31° to 140°F (-35 to 60°C)			-31° to 140°F (-35 to 60°C)			-31° to 140°F (-35 to 60°C)		
Environmental humidity	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.			95% max.			95% max.		
Dimensions (HxWxD in)	11.6 x 2.7 x 4.6	8.5 x 3.5 x 6.4	17.9 x 3.3 x 5.4	17.9 x 3.3 x 5.4	17.6 x 3.1 x 3.8	17.6 x 3.1 x 3.8			17.6 x 3.1 x 3.8			17.6 x 3.1 x 3.8		

Accessories

PIE-1 PoE IP Encoder
Allows beams to connect / integrate with all leading VMS platforms to control IP cameras (should be ordered in pairs)

ABC-4 Anti-Bird Cap
Prevents birds and small animals from sitting on detector. Also protects the front of detector from excessive rain and snow.

HU-3 Heating Unit
Heating Unit for Hardwired SL Models and AX-TN, AX-TF Models.

BC-4 Back Cover
Conceals the back side of a pole mounted SL Series detector.

PSC-4 Pole Side Cover
Conceals the gap between two pole mounted, back to back SL Series detectors.

CBR-4 Conduit Bracket
Required to run conduit to the SL Series detectors.