

## INDOOR PIR / COMBINATION DETECTOR SERIES

# FlipX

- |                           |  |
|---------------------------|--|
| <b>Standard Model</b>     | - 40ft (12m) 85° Wide<br>- 60ft (18m) Narrow                   |
| <b>Professional Model</b> | - 50ft (15m) 85° Wide<br>- 80ft (24m) Narrow                   |
| <b>Advanced model</b>     | - 50ft (15m) 85° Wide<br>- 80ft (24m) Narrow<br>- Anti-Masking |

The FlipX Series is our new generation of indoor PIR detectors equipped with innovative pyroelectric element and rotatable lens, a feature unique to OPTEX. By simply removing the case and flipping the lens 180°, the detection pattern can be customized from 85° wide for covering large open spaces, to just 5° for covering long narrow passages or windows. The FlipX Series is ideal for both residential and high-end commercial security applications.



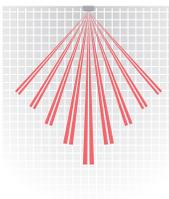
## Product Features

- ▶ Refined Spherical Lens
- ▶ SMDA
- ▶ 180° Cover Lock
- ▶ Double Conductive Shielding (Advanced & Professional models)
- ▶ Microwave upgrade (Dual Tech models)

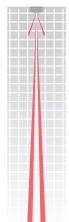
### Flip Lens

Selectable wide & narrow area with one lens. By turning the lens upside down, the shape of detection area can be changed from WIDE to NARROW.

#### Wide Detection Area



#### Narrow & Long Detection Area



### Prominent LED Light

LED color is bright green for easy viewing from a distance.



### Human-Catch Element

The new element size has been designed to create proper detection areas & optimize detection sensitivity.



The new element shape is matched for human size.

Prevents false alarms triggered by small animals.

# Standard Model

Choice for everyday intrusion



## FLX-S-ST

PIR

## FLX-S-DT

PIR and MW

-10.525GHz(X5)

-10.587GHz(X8)

- 9.425GHz(X9)

-40ft (12m) 85° Wide

-50ft (18m) Narrow

**Compliant to EN-Grade II\*1**

### Pet Immunity\*2

Standard model features false alarm protection with excellent tolerance to spot temperature changes from small animals and pets.



No Alarm

\*1 - When the PIR sensitivity setting is "Medium" or "High"

\*2 - When the PIR sensitivity setting is "Low"

Application Examples

Residential / Light Commercial



# Professional Model

Choice for elevated secure intrusion sensing / commercial and professional applications



## FLX-P-ST

PIR

## FLX-P-DT

PIR and MW

-10.525GHz(X5)

-10.587GHz(X8)

- 9.425GHz(X9)

-50ft (15m) 85° Wide

-80ft (24m) Narrow

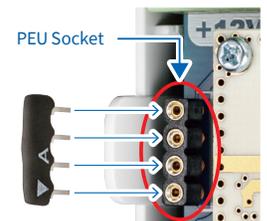
**Compliant to EN-Grade II**

### PEU Socket

Optional PEU(Plug-In End Of Line Unit) are available for the FlipX.

PEU can be inserted into the PEU socket on PCB.

Axial resistors do not need to be connected into terminals with signal cables to differentiate between alarm and tamper signals.



Can be inserted

Application Examples

Commercial Professional



# Advanced Model

Choice for advanced high-end and high-risk intrusion sensing



## FLX-A-AM

PIR with Anti-masking

## FLX-A-DAM

PIR and MW with Anti-masking

- 50ft (15m) 85° Wide

- 80ft (24m) Narrow

Compliant to EN-Grade III

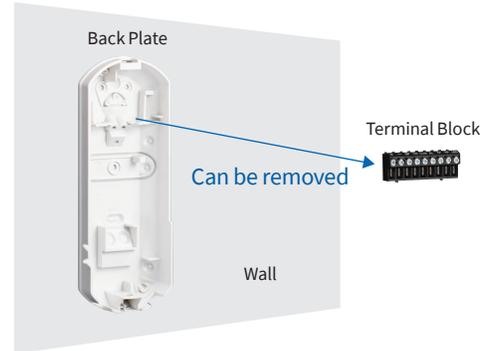
-10.525GHz(X5)

-10.587GHz(X8)

- 9.425GHz(X9)

### Removable Terminal Block

The terminal block can be removed from the back plate for easy wiring and replacement, without having to access key parts on the main unit.



### Double Protection Anti-Masking

FlipX features IR anti-masking function to generate a trouble signal when the detector is masked.



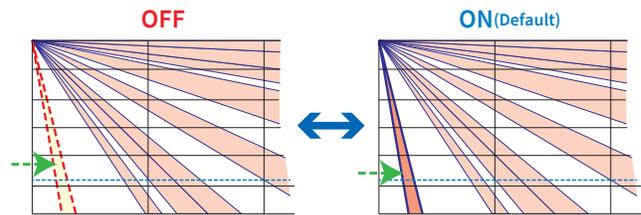
On lens surface



On AM window

### Down Zone Switch

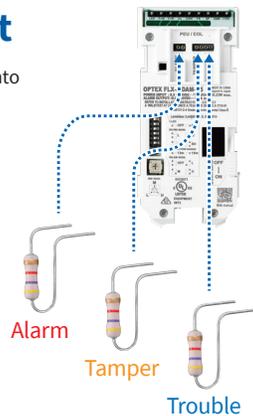
Downzone detection area is selectable "ON" or "OFF".



### EOL Resistor Socket

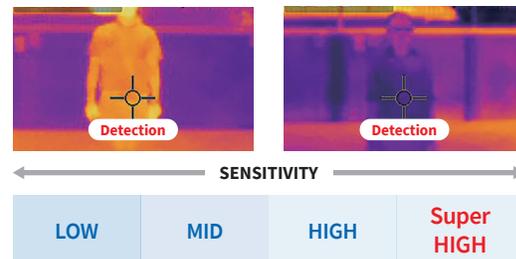
Axial resistors do not need to be connected into terminals with signal cables to differentiate between alarm, trouble, and tamper signals.

Axial resistors & optional PEU (Plug-In End Of Line Unit) are available for the FlipX. Either axial resistors enclosed in the control panel or an optional PEU can be inserted into the EOL resistor socket.



### Super High Sensitivity

Even if the temperature between a human and the background is similar, The super high PIR sensitivity setting can be selected to provide elevated catch performance for sites where missed alarms are unacceptable.



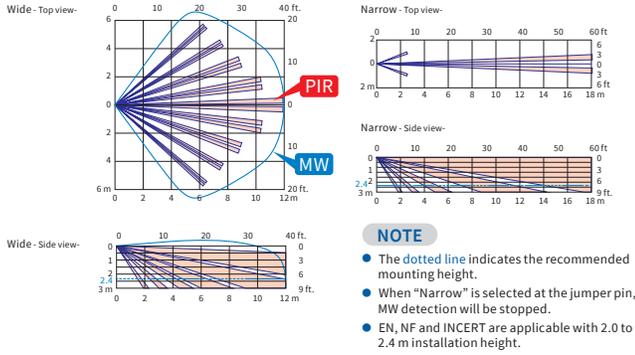
#### Application Examples

### High End / High Risk Intrusion Sensing

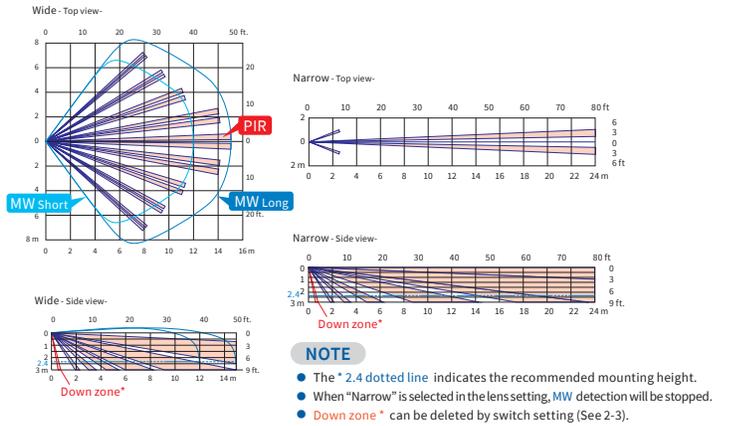


# Detection areas

## Standard Model / Professional Model



## Advanced Model

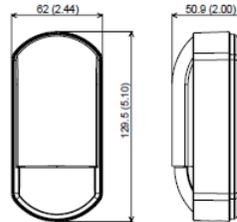


# Options

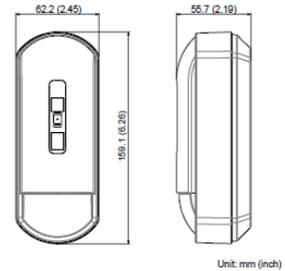
CW-G2	CW-G3
-Compliant to EN-Grade II -Wall or Ceiling mount selectable -Horizontally : +1-45° -Vertically : -5 to 20° downward	Compliant to EN-Grade III Wall Tamper Wall or Ceiling mount selectable Horizontally : +/-45°

# Dimensions

## Standard Model / Professional Model



## Advanced Model



# Specifications

Part name	FLX-S-ST	FLX-S-DT	FLX-P-ST	FLX-P-DT	FLX-A-AM	FLX-A-DAM
Model name	Standard		Professional		Advanced	
Mounting height	2.0 to 3.0 m (6'7" to 9'8")					
Coverage	Wide: 12 m (40') 85° Narrow: 18 m (60') 5° (MW will be stopped in Narrow setting)		Wide: 15 m (50') 85° Narrow: 24 m (80') 5° (MW will be stopped in "Narrow" setting)		Wide: 15 m (50 ft.)/12 m (40 ft.) 85° Narrow: 24 m (80 ft.) 5° (No MW detection at "Narrow" setting)	
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	12 mA max. at 12 V DC	16 mA max. at 12 V DC	18 mA max. at 12 V DC	19 mA max. at 12 V DC
Relay output	Alarm				Alarm	
	N.C. 24 V DC 0.1 A max.				N.C. 24 V DC 0.1 A max. (Resistive load)	
Relay output	Tamper				Tamper	
	N.C. 24 V DC 0.1 A max. (Open when the cover is removed)				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)		-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: 130 mm x W: 62 mm x D: 56 mm				H: 160 mm x W: 62 mm x D: 59 mm	
Weight	120 g (4.20 oz)	135 g (4.73 oz)	120 g (4.20 oz)	135 g (4.73 oz)	165 g (5.78 oz)	180 g (6.35 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.

**Web based manual for Standard model**  
<https://navi.optex.net/manual/50439/>

**Web based manual for Professional / Advanced models**  
<http://navi.optex.net/manual/xxxxx>