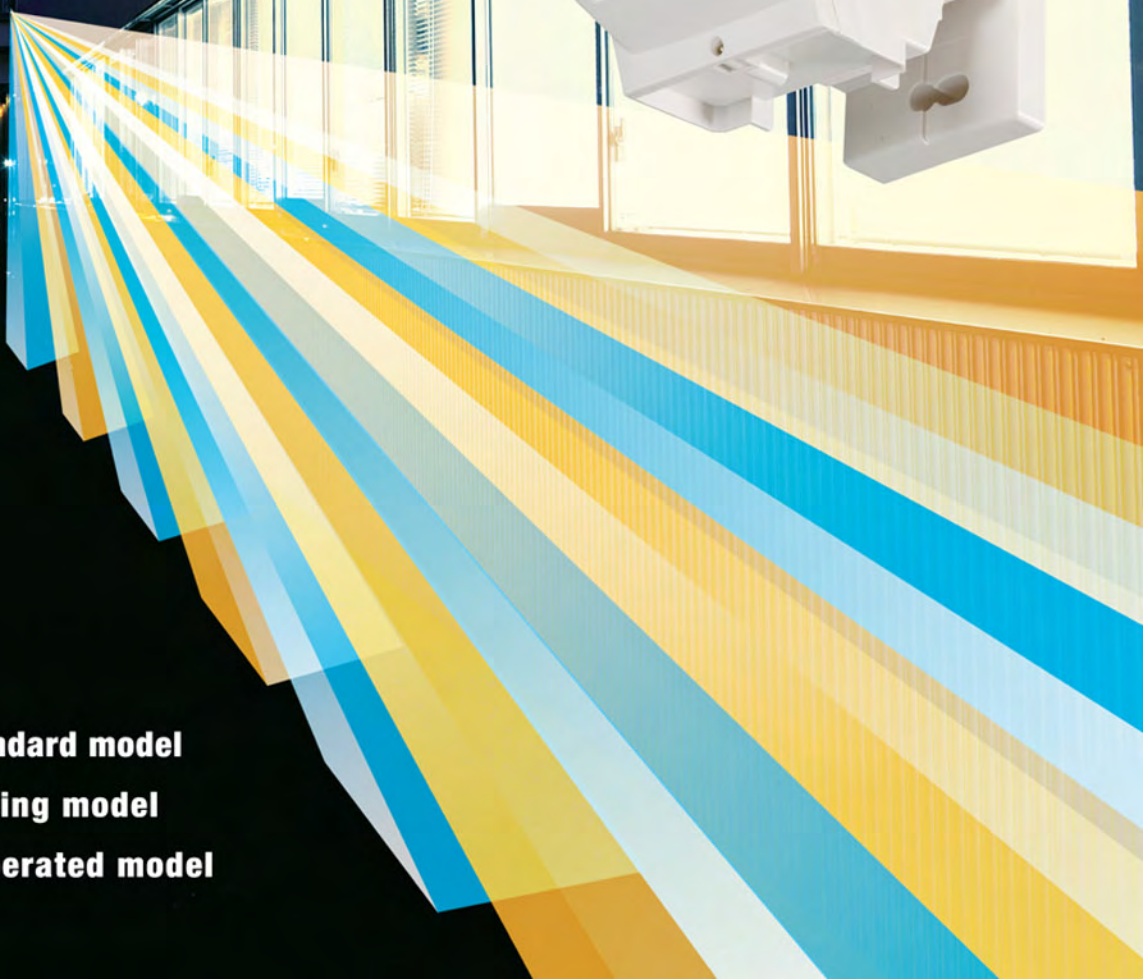




24m Long and Narrow range  
High mount Outdoor detector

# HX-80N series



*Introducing No.1  
OPTEX advantage*

- HX-80N** : 2 PIRs standard model
- HX-80NAM** : Anti-masking model
- HX-80NRAM** : Battery operated model

# 24m/80ft. Closing time for

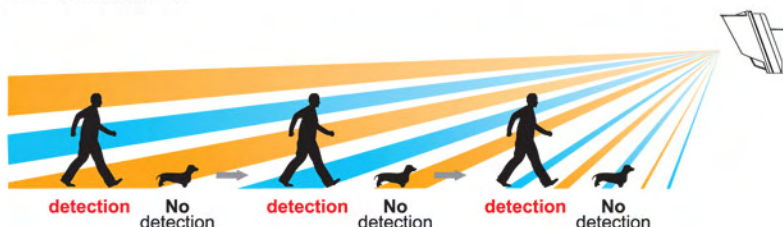
We are bringing down the curtain.

## Product features

### Catch performance



The HX Series features superb Catch Performance. The most important element in reliable outdoor detector is accuracy to distinguish a human from a small animal. The exclusive pyro element on board enables the HX to project an ideal detection pattern, thus allowing for more accurate detection of humans and less false alarms.



**HX-80N** 2 PIRs standard model

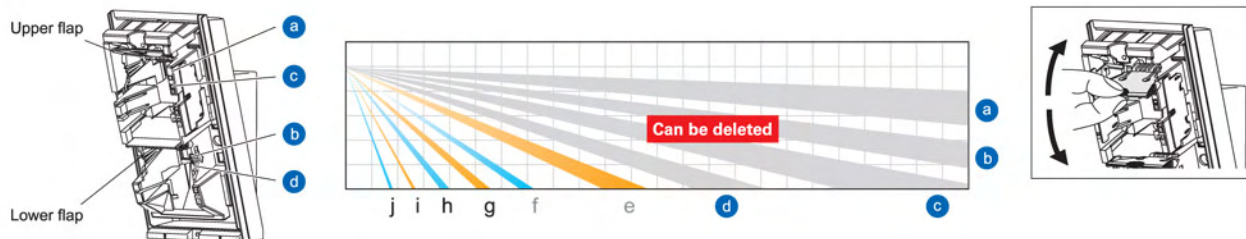
### Adjustability



HX coverage can be adjusted by means of built-in flaps and plates

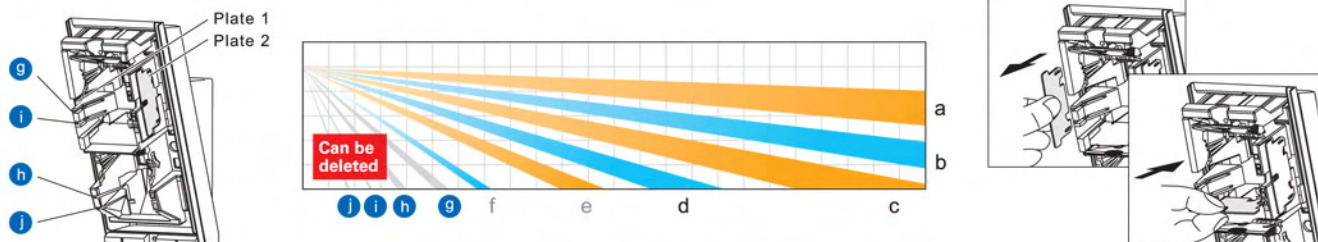
#### Flaps for long distance limit

To adjust the long range of detection, set the upper and lower flaps.



#### Plates for short range masking

To adjust the short range of detection, set the masking plates.



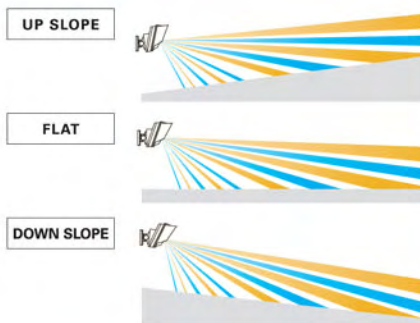
\* Plate 1 and 2 are identical.

# intruders

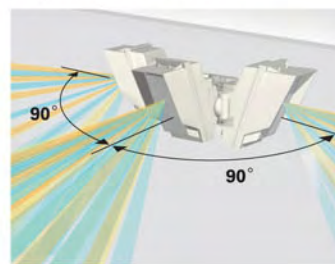
## Slope friendliness



Not all outdoor ground is flat like most indoor environments. Steep slopes can cause negative effects on the catch performance feature. The adjustable included bracket enables the HX to maintain the optimal catch performance.



## 180° horizontal angle adjustable bracket



## Basic Performance

- Mounting height 2.5-3.0m
- Intelligent AND detection logic with unique pyro-element
- Double conductive shielding
- Advanced temperature compensation logic
- Summer night compensation logic
- Vegetation sway analysis logic

## Product line up

### HX-80NAM

### Anti-masking

#### Active IR digital anti-masking

When an object is placed close to the lens surface, for a period of more than 180 seconds, the IR Anti-Masking circuit will activate and generate a trouble signal.



### HX-80NRAM

### Battery operated model

#### Save installation time and cost.

HX-80NRAM is battery operated model therefore requires no complicated wiring.



#### Battery box for numerous battery types



\*3.6 VDC 1/2 AA battery in series.

## Application



Residential site



Commercial site



Storage site

\*According to our survey on November, 2010.

## Specifications

| Model                 | HX-80N                                                   | HX-80NAM                   |
|-----------------------|----------------------------------------------------------|----------------------------|
| Detection method      | Passive infrared                                         |                            |
| Anti-masking          | -                                                        | ✓                          |
| PIR Coverage          | 24.0 m × 2.0 m (80' × 6'7") narrow / 20 zones            |                            |
| PIR distance limit    | 6.5 m, 10.0 m, 13.0 m, 18.0 m (22', 33', 42', 59')       |                            |
| Detectable speed      | 0.3 m/s - 1.5 m/s (1'/s - 4'11"/s)                       |                            |
| Sensitivity           | 2.0°C (3.6°F) at 0.6 m/s                                 |                            |
| Power input           | 9.5 - 18 V DC                                            |                            |
| Current draw          | 35 mA (max.) at 12 V DC                                  | 40 mA (max.) at 12 V DC    |
| Alarm period          | 2.0 ± 1 sec.                                             |                            |
| Warm-up period        | Approx. 60 sec. (LED blinks)                             |                            |
| Alarm output          | Form C 28 V DC 0.2 A (max.)                              |                            |
| Tamper output         | N.C. 28 V DC, 0.1 A (max.) N.C. open when cover removed. |                            |
| Trouble output        | -                                                        | N.C. 28 V DC, 0.1 A (max.) |
| Aux input             | N.C. 28 V DC, 0.1 A (max.)                               |                            |
| LED indicator         | Red: Warm-up, Alarm Red: Warm-up, Alarm, Trouble         |                            |
| RF interference       | No alarm 10 V/m                                          |                            |
| Operating temperature | -20 - +60°C (-4 - +140°F)                                |                            |
| Environment humidity  | 95% max.                                                 |                            |
| Weatherproof          | IP55                                                     |                            |
| Mounting              | Wall                                                     |                            |
| Mounting height       | 2.5 - 3.0 m (8'2" - 9'10")                               |                            |
| Bracket adjust angle  | Vertical: ±20° Horizontal: ±95°                          |                            |
| Weight                | 720 g (25.4 oz.)                                         |                            |
| Accessories           | Bracket, Screw (4 × 20 mm) × 4                           |                            |

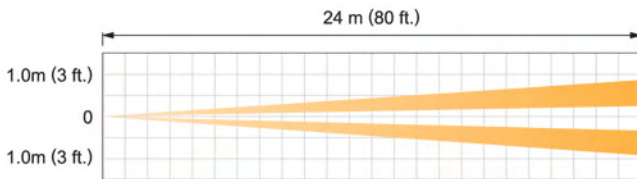
| Model                 | HX-80NAM                                                                                                                 |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Detection method      | Passive infrared                                                                                                         |
| Anti-masking          | ✓                                                                                                                        |
| PIR Coverage          | 24.0 m × 2.0 m (80' × 6'7") narrow / 20 zones                                                                            |
| PIR distance limit    | 6.5 m, 10.0 m, 13.0 m, 18.0 m (22', 33', 42', 59')                                                                       |
| Detectable speed      | 0.3 m/s - 1.5 m/s (1'/s - 4'11"/s)                                                                                       |
| Sensitivity           | 2.0°C (3.6°F) at 0.6 m/s                                                                                                 |
| Power input           | 3 - 7.2 V DC Lithium Battery (CR123A×3, CR2×3, 1/2AA×3, 1/2AA×6)                                                         |
| Operating voltage     | 2.5 - 9 V DC                                                                                                             |
| Current draw          | 30 μA (standby) / 4 mA (max.) at 3 V DC                                                                                  |
| Alarm period          | 2.0 ± 1 sec.                                                                                                             |
| Warm-up period        | Approx. 90 sec. (LED blinks)                                                                                             |
| Alarm output          | Form C -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.                                                            |
| Tamper output         | Form C. 28 V DC, 0.1 A max. activates when cover removed.                                                                |
| LED indicator         | Disable: During normal operation.<br>Enable: During WALK TEST or LED SW on.<br>Red: Warm-up, Alarm, Trouble, Low battery |
| RF interference       | No alarm 10 V/m                                                                                                          |
| Operating temperature | -20 - +60°C (-4 - +140°F)                                                                                                |
| Environment humidity  | 95% max.                                                                                                                 |
| Weatherproof          | IP55                                                                                                                     |
| Mounting              | Wall                                                                                                                     |
| Mounting height       | 2.5 - 3.0 m (8'2" - 9'10")                                                                                               |
| Bracket adjust angle  | Vertical: ±20° Horizontal: ±95°                                                                                          |
| Weight                | 780 g (27.5 oz.)                                                                                                         |
| Accessories           | Bracket, Screw (4 × 20 mm) × 4, Velcro tape × 2, Alarm cable, Battery lead × 2, Dummy battery kit                        |

\*Specifications and designs are subject to change without prior notice.

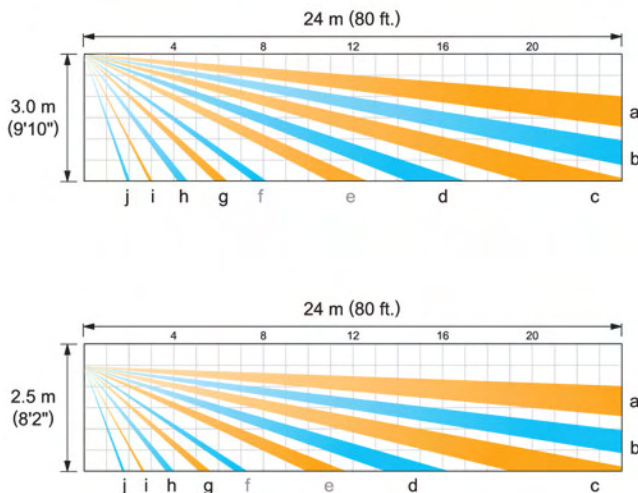
\*Batteries and wireless transmitters are not included these products.

## Coverage

### Top view

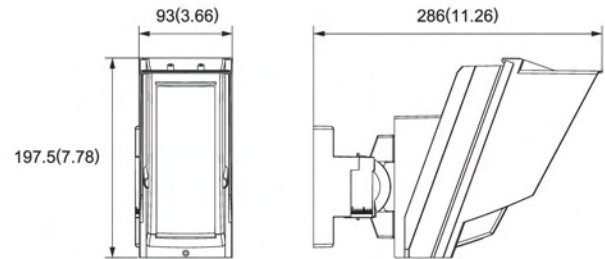


### Side view

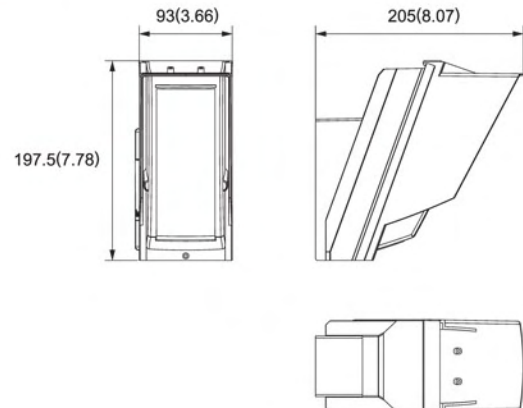


## Dimensions

### Using bracket



### Without bracket



mm (inch)