80ft. x 6.7ft.  High Mount
Outdoor Curtain PIR Detector

# HX-80N
## series

**HX-80N**     : 2 PIRs standard model
**HX-80NAM**   : Anti-masking model
**HX-80NRAM**  : Wireless-Ready model
**HX-80NRAMi** : iSeries Wireless model
                   (w/Inovonics & batteries built in)

## Product features

### Catch performance

The HX Series features superb Catch Performance.
The most important element in reliable outdoor detector is accuracy in distinguishing 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.
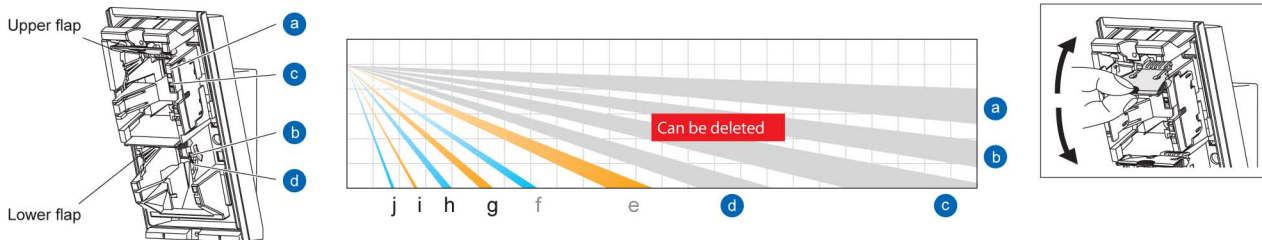
**detection** No detection **detection** No detection **detection** No detection
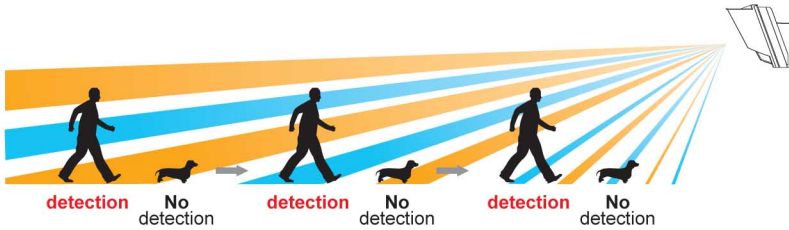
**HX-80N** **Dual PIR standard model**

### Adjustability

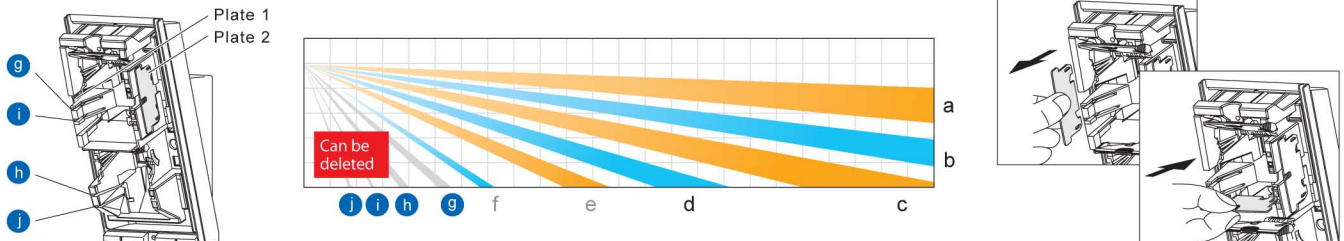HX coverage can easily be adjusted by means of built-in flaps and plates

#### Flaps for long distance limit

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

Upper flap
a
c
b
d
Lower flap

Can be deleted

a
b
d
c

j i h g f e d c

#### Plates for short range masking

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

Plate 1
Plate 2

g
i
h
j

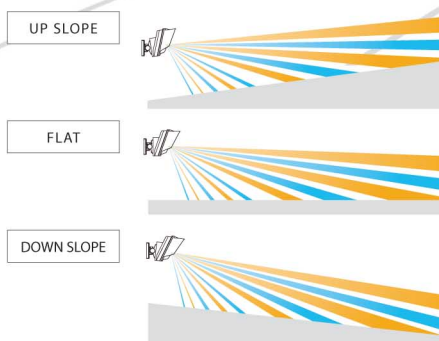Can be deleted

a
b

j i h g f e d c

* Plate 1 and 2 are identical.
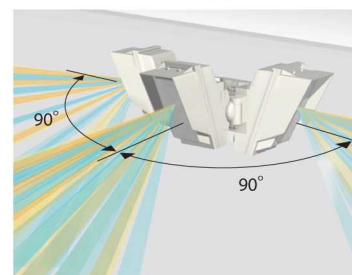
# intruders



BRYCO

## 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.

UP SLOPE

FLAT

DOWN SLOPE

### 180° horizontal angle adjustable bracket

90°

90°

### Additional Features

- Mounting height 8'2"- 9'10"
- Advanced temperature compensation logic
- Intelligent AND detection logic with unique pyro-element
- Summer night compensation logic
- Double conductive shielding
- 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.

Disarm

Sabotaged

Trouble out

Trouble signal

| HX-80NRAM | Wireless Ready Model |
| --- | --- |
| HX-80NRAMi | iSeries Wireless Model |

#### Save installation time and labor costs with no wiring or trenching.

**HX-80NRAM** is a battery operated model that works with most manufacturers wireless technology.

WIRELESS READY

The iSeries **HX-80NRAMi** is an out-of-the-box wireless version that comes with an Inovonics EN1941 transmitter and batteries already installed.

OPTEX iSeries wireless
powered by inovonics®

#### Battery box for numerous battery types

CR123A×3 (3.0VDC)
CR2×3 (3.0VDC)
1/2AA×3 (3.6VDC)
1/2AA×6 (7.2VDC×3)*

CR123A    CR2    1/2AA    1/2AA

*3.6 VDC 1/2 AA battery in series.

## Applications



**Residential site**



**Commercial site**



**Storage site**

## Specifications

| Model | HX-80N | HX-80NAM |
|---|---|---|
| Detection method | Passive infrared | |
| Anti-masking | - | ✓ |
| PIR Coverage | 80' × 6'7" (24.0 m × 2.0 m) narrow / 20 zones | |
| PIR distance limit | 22', 33', 42', 59' (6.5 m, 10.0 m, 13.0 m, 18.0 m) | |
| Detectable speed | 1'/s - 4'11"/s (0.3 m/s - 1.5 m/s) | |
| Sensitivity | 3.6°F (2.0°C) 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 | -4 - +140°F (-20 - +60°C) | |
| Environment humidity | 95% max. | |
| Weatherproof | IP55 | |
| Mounting | Wall | |
| Mounting height | 8'2" - 9'10" (2.5 - 3.0 m) | |
| Bracket adjust angle | Vertical: ±20° Horizontal: ±95° | |
| Weight | 25.4 oz. (720 g) | |
| Accessories | Bracket, Screw (4 × 20 mm) × 4 | |

*Specifications and designs are subject to change without prior notice.
*Batteries and wireless transmitters are not included these products.

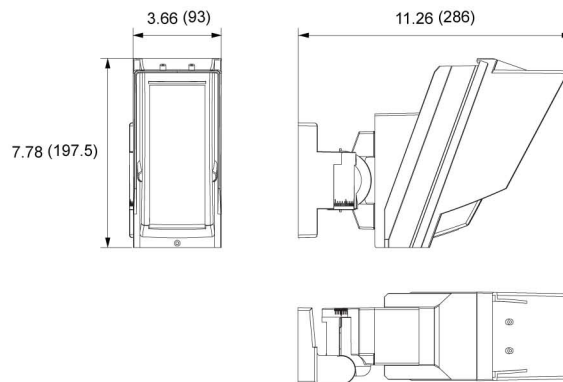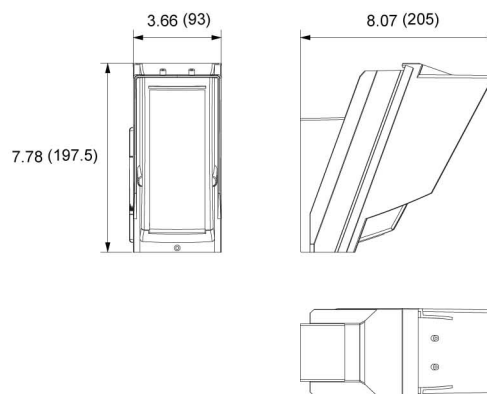| Model | HX-80NRAM | iSeries HX-80NRAMi |
|---|---|---|
| Wireless Technology | Works w/Most Manufacturers Wireless | Includes Inovonics EN1941 and batteries built in |
| Anti-masking | ✓ | |
| PIR Coverage | 80' × 6'7" (24.0 m × 2.0 m) narrow / 20 zones | |
| PIR distance limit | 22', 33', 42', 59' (6.5 m, 10.0 m, 13.0 m, 18.0 m ) | |
| Detectable speed | 1'/s - 4'11"/s (0.3 m/s - 1.5 m/s) | |
| Sensitivity | 3.6°F (2.0°C) at 0.6 m/s | |
| Power input | 3 - 7.2 V DC Lithium Battery (not included) | (2x) 3 V DC Lithium Battery (included) |
| 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. Enable: During WALK TEST or LED SW on. Red: Warm-up, Alarm, Trouble, Low battery | |
| RF interference | No alarm 10 V/m | |
| Operating temperature | -4 - +140°F (-20 - +60°C) | |
| Environment humidity | 95% max. | |
| Weatherproof | IP55 | |
| Mounting | Wall | |
| Mounting height | 8'2" - 9'10" (2.5 - 3.0 m) | |
| Bracket adjust angle | Vertical: ±20° Horizontal: ±95° | |
| Weight | 27.5 oz. (780 g) | |
| Accessories | Bracket, Screw (4 × 20 mm) × 4, Velcro tape × 2, Alarm cable, Battery lead × 2, Dummy battery kit | |

## Coverage

Top view
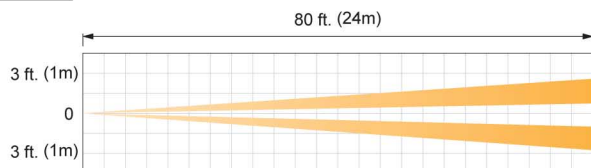


Side view
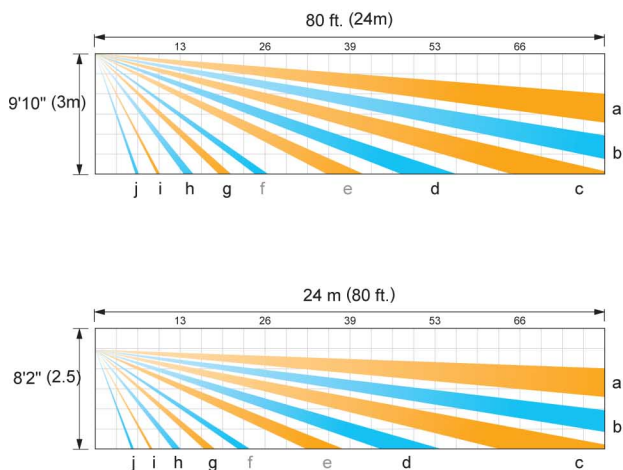




## Dimensions

**Using bracket**



**Without bracket**



inch (mm)