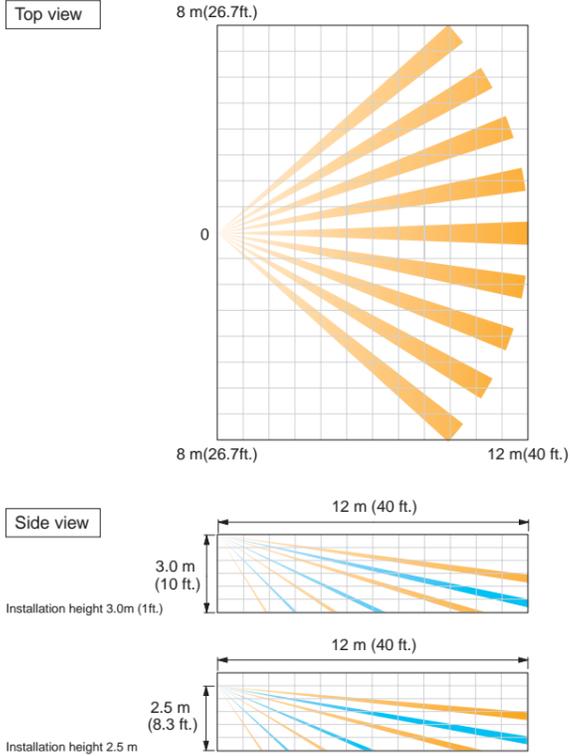


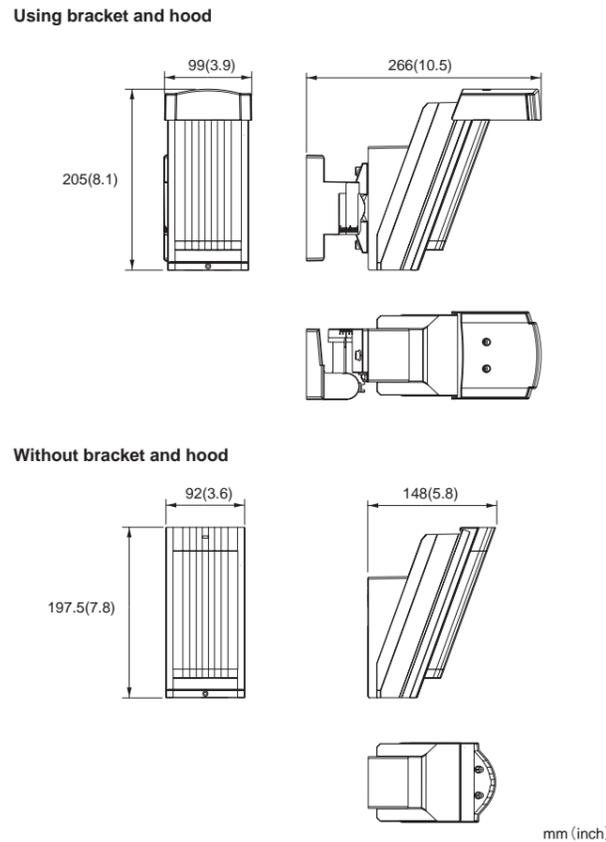


HX series

Detection Area



Dimensions



Dimensions

Model	HX-40	HX-40AM
Detection method	Passive infrared	
PIR Coverage	12 m (40 ft.) 85° wide / 94 zones	
Distance limit	4 m, 5.5 m, 9 m, 12 m (13 ft, 18 ft, 30 ft, 40 ft.)	
Detectable speed	0.3-1.5 m/s (1-5 ft/s)	
Sensitivity	2.0°C (3.6°F) at 0.6 m/s	
Power input	9.5-18VDC	
Current draw	35mA (max) at 12VDC	40mA (max) at 12VDC
Alarm period	2.0±1 sec	
Warm-up period	Approx. 60 sec(LED blinks)	
Alarm output	Form C 28VDC 0.2A max	
Tamper output	N.C. 28V DC, 0.1A max.N.C. open when cover removed.	
Trouble output	—	N.C. 28V DC, 0.1A max
Aux input	N.C. 28V DC, 0.1A max	
LED indicator	Red:Warm-up, Alarm	Red:Warm-up, Alarm,Troublr
RF Interference	No alarm 10 V/m	
Operating temperature	-20—+60°C (-4 —+140°F)	
Environment humidity	95% max	
Weatherproof	IP55	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	2.5 - 3.0 m (8.3 - 10 ft.)	
Bracket adjust angle	Vertical: ±20° Horizon: ±95°	
Weight	600g (21.2 oz)	
Accessories	Bracket, Hood, Area masking seal, Screw kit (3×10-2, 4×20-4)	

*specifications and design are subject to change without prior notice

Accessories (These are included in package)

180°angle adjustable bracket
It reduces false and missed alarms by achieving the accurate installation.

Hood
It prevents the direct sunlight and water getting into the lens.

NOTE:
This unit is designed to detect movement of 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. This product conforms to the category "Residential, Commercial and Light Industry" of EMC Directive 89/336.



- 3m high mount□
- High density two detection zones with unique pyro-element□
- Dual signal processing circuit□
[Automatic sensitivity adjustment in a hostile environment]□
- Vegetation sway analysis logic□
- Ideal detection area setting□
- Environment-responsive design to achieve appropriate installation



OPTEX CO., LTD. (ISO 9001 Certified by LRQA / ISO14001 Certified by JET)□
5-8-12 Ogino, Otsu, Shiga, 520-0101 Japan□
TEL +81(0)77 579 8670 FAX +81(0)77 579 8190 <http://www.optex.co.jp/e/>
OPTEX INCORPORATED (USA)□ <http://www.optexamerica.com>
OPTEX (EUROPE) LTD. (UK)□ <http://www.optex-europe.com>
(ISO9001 Certified by NQA)□
OPTEX SECURITY SAS (FRANCE)□ <http://www.optex-security.com>
OPTEX KOREA CO., LTD. (KOREA)□ <http://www.optexkorea.com>
OPTEX SECURITY Sp. z o.o. (POLAND) <http://www.optex.com.pl>
OPTEX (DONGGUAN) CO., LTD.□ <http://www.optexchina.com> □
Shenzhen office (CHINA)



High Mount Outdoor Detector
High reliable outdoor detector with brand-new pyro-element

HX-40

High mount outdoor PIR detector

HX-40AM

High mount outdoor PIR detector with anti-masking function

The HX series is an outdoor detector for high-end applications.

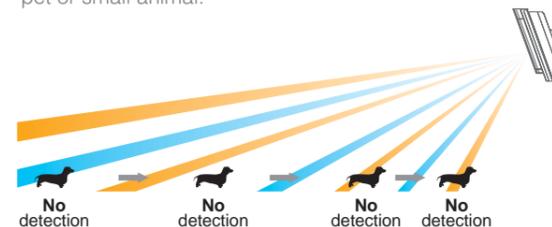
OPTEX has developed a unique pyro-element to achieve high reliability and performance. It provides multiple pattern detection area with 94 highly density detection zones and accurate discrimination function for spot temperature changes of moving objects. These features reduce false and missed alarms drastically caused by outdoor severe environmental changes and provide a wide range of applications.

Accurate detection performance is necessary in severe outdoor environments. The HX series meets this requirement.

High detection performance to prevent false and missed alarms

Intelligent AND logic with unique pyro-element

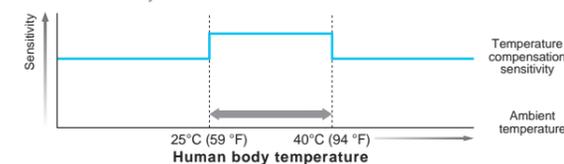
The HX employs originally developed pyro-elements which creates unique area configuration with 94 high density detection zones. By utilizing the AND detection pattern technology - upper and lower detection areas have to be activated in order to generate an alarm condition, the HX series prevents false alarms caused by pet or small animal.



Dual signal processing circuit

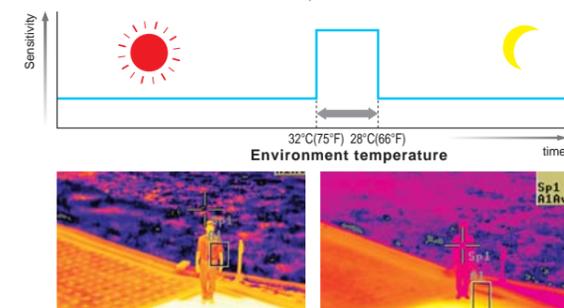
● **Advanced temperature compensation logic**

It automatically increases the detector's sensitivity, especially where the background temperature ranges from approx. 25 to 40°C (59 – 94°F), close to that of the human body.



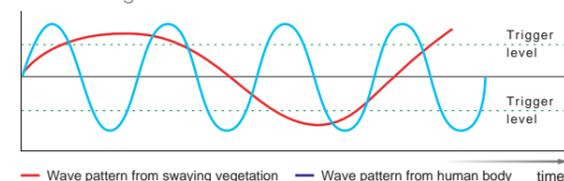
● **Summer night compensation logic**

It is effective for the severe environmental condition such as summer evening and nights. The HX series addresses this issue by the additional measurement of luminance levels as the environment changes and allows sensitivity to automatically sharpen as environmental conditions require.



Vegetation sway analysis logic

The HX series monitors wave changes at all the times and automatically cancels the signal caused by swaying grass when it determines the increase of this distinctive wave changes.



Digital anti-masking technology (patent pending) HX-40AM

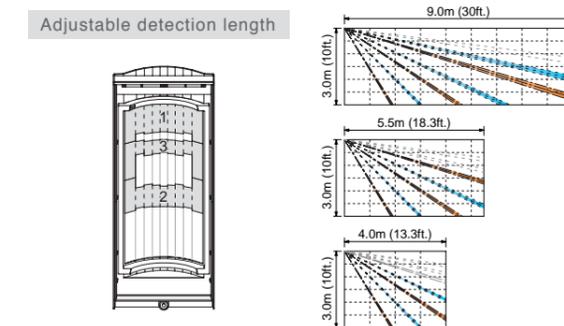
Digital processing circuit can guarantee its permanent reliability in a practical way. According to on going environmental changes the HX-40AM can regularly make automatic optimization.

Double conductive shielding against unwanted light disturbances

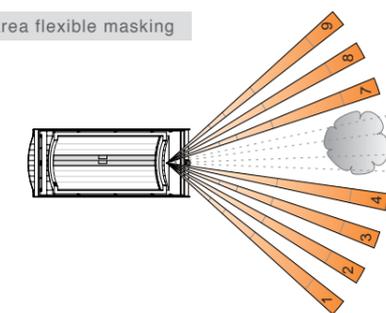
By using double shielding, the visible light disturbances such as reflected sunlight and RFI can be blocked.

Ideal detection area setting to achieve accurate installation

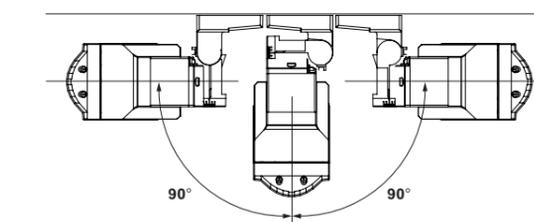
● **With masking seal**



● **Spot area flexible masking**



● **With 180° angle adjustable bracket**



Environmental responsiveness design

- The look 20° downward design and accessory hood prevents the rain, wind, or direct sunlight direct to the lens surface.
- The original cuts done on the lens surface strengthen its durability and offers better protection against the outdoor severe environmental condition.

