

Outdoor PIR with intelligent VCA

InSight

Available Models

INS-QXI-ST : 12 m (40 ft.) wide, high mount PIR camera

INS-HX-80N : 24 m (80 ft.) long & narrow, as above



PIR Based Visual Verification Security Solution for Outdoor Applications

The InSight series offers a sensor based visual verification solution combining highly effective OPTEx outdoor detection technology with a camera. Not affected by lights, wind, rain, or snow, the InSight minimizes false alarms and features small animal tolerance technology to effectively reduce nuisance alarms. The InSight also simplifies the installation process by matching the camera and sensor field of views, while providing wide and narrow detection range options. The InSight series is ONVIF compliant and can directly connect to the OPTEx Visual Verification Bridge, as well as any DVR, NVR or VMS.



ONVIF® | S

www.onvif.org/profiles/profile-s/

FHD camera with IR LED



Camera with intelligent VCA

- Clear image day and night with IR illumination.
- No need to match the camera angle of view with the detection area, so there is no mistake.
- Remote configuration of detection areas
- Flexible VCA detection Rule
- Bounding box on video streaming can find what is detected

Stable & Reliable Outdoor PIR

- Wide & Narrow detection area model lineup
- Excellent performance against false alarms such as small animals and swaying plants outdoor.

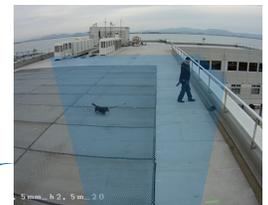
Double Knock of VCA and PIR

Both detection of VCA and PIR makes a great contribution to improvement of the credibility of an alarm signal.

A walking person is detected by VCA

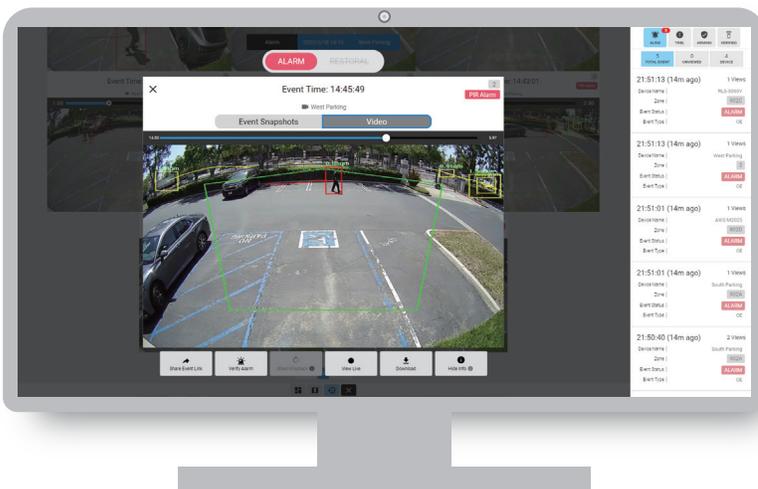


A walking person is detected by PIR



AND

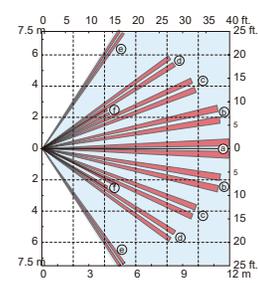
InSight generates an alarm signal



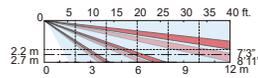
Detection Areas

INS-QXI-ST

Top View

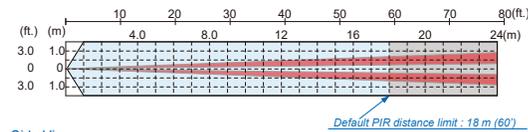


Side View

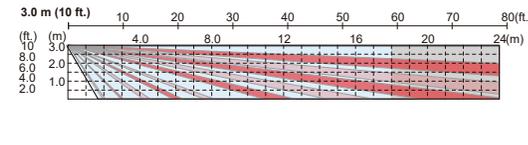


INS-HX-80N

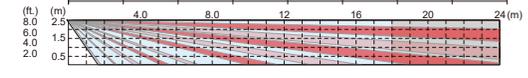
Top View



Side View



2.5 m (8.2 ft.)



*The default detection distance on the HX-80N PIR is set to 18 m (60'). If the device is set to detect at the maximum range of 80', additional illumination will be needed to cover the entire detection distance.

Specifications

| Model | INS-QXI-ST | Model | INS-HX-80N |
|--------------------------|--|--------------------------|---|
| Detection method | Passive infrared | Detection method | Passive infrared |
| PIR coverage | 12.0 m (40') 120° wide | PIR coverage | 24 m x 2.0 m (80' x 6'7") narrow |
| PIR zones | 40 zones | PIR zones | 20 zones |
| Detectable speed | 0.3 to 2.0 m/s (1' to 6'7"/s) | PIR distance limit | 6.5 m (22'), 10 m (33'), 13 m (43'), 18 m (60'). Default: 13m (43') |
| Sensitivity | 2.0°C (3.6°F) at 0.6 m/s | Detectable speed | 0.3 to 1.5 m/s (1' to 5'/s) |
| Power input | PoE (IEEE 802.3af compliant) Mini-jack 12 V DC 420 mA max. Terminal 9.5 to 16 V DC/ 20 mA max. at 12 V DC | Sensitivity | 2.0°C (3.6°F) at 0.6 m/s |
| Alarm period | 2.0 ± 0.5 s | Power input | PoE (IEEE 802.3af compliant) Mini-jack 12 V DC 420 mA max. Terminal 9.5 to 18 V DC/ 35 mA max. at 12 V DC |
| Warm-up period | Approx. 60 s (LED blinks) | Alarm period | 2.0 ± 1 s |
| Alarm output | N.C/N.O. switchable, 28 V DC 0.1 A max. | Warm-up period | Approx. 60 s (LED blinks) |
| Tamper output | N.C, 28 V DC 0.1 A max. Open when the cover is opened | Alarm output | N.C/N.O. switchable, 28 V DC 0.1 A max. |
| LED indicator | [1] Warm-up [2] Alarm [3] Walk test end | Tamper output | N.C, 28 V DC 0.1 A max. Open when the cover is opened |
| Image sensor | 1/2.8" CMOS | LED indicator | [1] Warm-up [2] Alarm |
| Viewing angle | H: 114° V: 61° | Image sensor | 1/2.8" CMOS |
| Minimum illumination | Color: 0.02 lux, 0 lux, with IR | Viewing angle | H: 114° V: 61° |
| IR illumination | Visible up to 12 m | Minimum illumination | Color: 0.02 lux, 0 lux, with IR |
| Night vision | Day & Night Automatic/Manual switching | IR illumination | Visible up to 18 m |
| Image compression | H.264, H.265, MJPEG | Night vision | Day & Night Automatic/Manual switching |
| Resolution/ frame rate | 1080/ 30 fps, D1 (704 x 480 or 704 x 576) | Image compression | H.264, H.265, MJPEG |
| Network protocol | IPv4: TCP/IP, UDP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, SNMPv1/v2/v3(MIB-2), ONVIF | Resolution/ frame rate | 1080/ 30 fps, D1 (704 x 480 or 704 x 576) |
| Security | HTTPS(SSL), IP filtering, 802.1x, Digest authentication (ID/PW) | Network protocol | IPv4: TCP/IP, UDP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, SNMPv1/v2/v3(MIB-2), ONVIF |
| Operation temperature | -30°C to +50°C (-22°F to +122°F) | Security | HTTPS(SSL), IP filtering, 802.1x, Digest authentication (ID/PW) |
| Environment humidity | 95% max. | Operation temperature | -30°C to +50°C (-22°F to +122°F) |
| International protection | IP 54 | Environment humidity | 95% max. |
| Mounting | Wall (Outdoor, Indoor)/Gang box | International protection | IP 55 |
| Mounting height | 2.2 to 2.7 m (7' 3" to 8'11") | Mounting | Wall (Outdoor, Indoor)/Gang box |
| Weight | 0.85kg (30.0oz) | Mounting height | 2.5 to 3.0 m (8'2" to 10') |
| Accessories | [1] Mounting screw (4 x 20 mm) x 2 [2] T20 Torx wrench x 1 [3] Area masking strips x 1 [4] Waterproof cap for LAN connector x 1 | Weight | 1.2kg (42.3oz) |
| | | Accessories | [1] Mounting screw (4 x 20 mm) x 2 [2] T20 Torx wrench x 1 [3] Waterproof cap for LAN connector x 1 |

• Specifications & designs are subject to change without prior notice.

• These units are designed to detect an intruder & 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 is equipped with the function to produce and record moving and/or still image which includes the information such as face of an individual that could identify the individual.

Producing and recording with this product may be regulated by country-specific laws to protect personal information.

Prior to the installation of this product, the compliance to local laws and regulations needs to be confirmed by the user of this product for the lawful installation and use of this product, and signage and notification when using this product.

Compatible with ONVIF

- Anti tamper (scene change detection by VCA)
- Alert by ONVIF

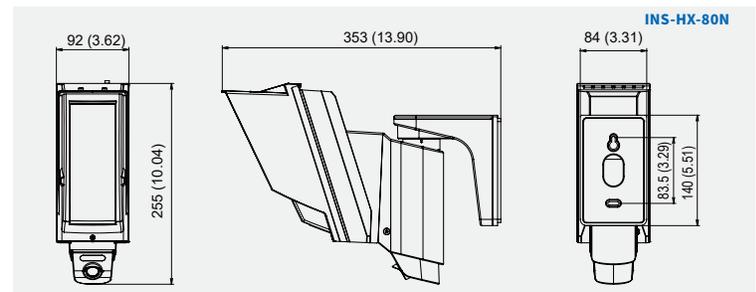
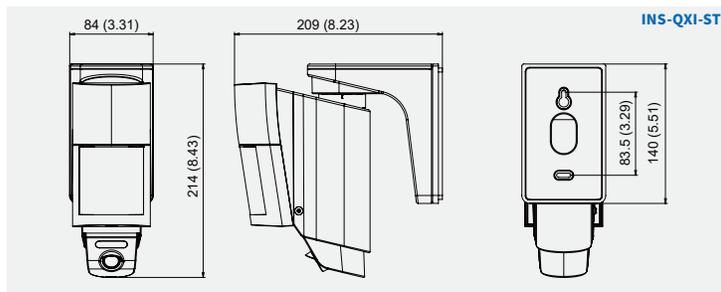


Plug & Play Integration with the Bridge

- Easily integrates into new or existing Bridge
- Fully integrated & certified by Bridge & CheKT portal



Dimensions



OPTEX CO., LTD. (JAPAN)

www.optex.co.jp/e

OPTEX INC. / AMERICAS HQ (U.S.)
www.optexamerica.com

OPTEX EMEA Security Headquarters

OPTEX EUROPE LTD (UK)

OPTEX Security B.V. (EU)

www.optex-europe.com

OPTEX SECURITY SAS (France)
www.optex-europe.com/fr

OPTEX SECURITY Sp.z o.o. (Poland)

www.optex-europe.com/pl

OPTEX PINNACLE INDIA, PVT., LTD. (India)

www.optexpinnacle.com

OPTEX KOREA CO., LTD. (Korea)

www.optexkorea.com

OPTEX (DONGGUAN) CO., LTD.
SHANGHAI OFFICE (China)

www.optexchina.com

OPTEX (Thailand) CO., LTD. (Thailand)

www.optex.co.th