InSight Series

Merging technologies for high-performance intrusion detection

Bringing together video and sensing analytics for reliable detection of suspicious behaviour and unauthorised intrusions.

- Not affected by weather and environmental factors

- Excellent performance against false alarms

- ONVIF compliant for seamless integration

Blending the best of two powerful technologies for reliable and efficient intrusion protection.

INS-QXI-ST
12m (40ft.), wide angle detection

INS-HX-80N
24m (80ft. long and narrow detection
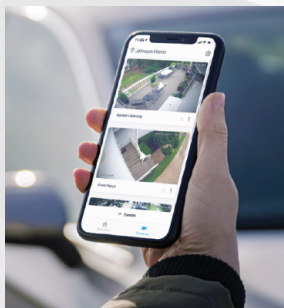
Perfect alignment of optics and sensor

Built into the same unit, InSight is auto-configured so the camera angle of view and the sensor's detection area match perfectly, this means there is a better capture of events.

With just one single point of installation, InSight provides wide and narrow detection area model line-up to adapt to different site needs.

Easy integration into the security system

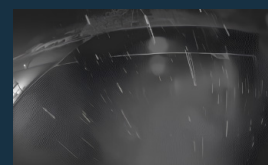The InSight series is ONVIF compliant and can integrate with CHeKT, control panel and DVR, NVR or VMS.

Onvif® | **S**
ONVIF is a trademark of Onvif, Inc.

PoE
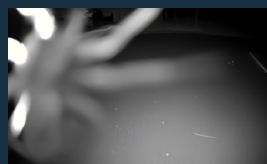Power over Ethernet

CHeKT

Significantly reduce false alarms

Bird shadow

Snow

Spider webs

Fallen leaves

Thanks to advanced detection algorithms, InSight Series is able to avoid typical causes of false alarms, such as small insects, changes in light and other environmental conditions.

InSight helps to build a reliable security system, making more efficient use of resources and allowing security teams to focus on real threats.

Video and sensing analytics integrated

The powerful merging of unique sensing algorithms and high-resolution VCA camera provides enhanced intrusion detection so security teams can focus on what really matters.
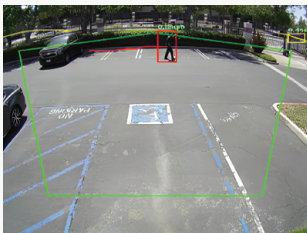

Video analytics detects

Sensor analytics detects

InSight generates an alarm signal

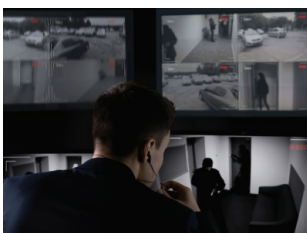# Application scenarios

Immediately detect potential threats

InSight allows you to detect immediately if any authorised person is approaching the property and to verify visually whether it's a real intrusion.

Verify day and night

InSight offers round-the-clock performance thanks to high-quality imaging and IR illumination.

Protect areas that are public facing

InSight's privacy mask feature means VCA camera view can be avoided in areas where it is not permitted.

Secure locations prone to false alarms

InSight's digital logic sensor prevents nuisance alarms caused by small animals, temperature or weather conditions.

Proactive security for remote areas

InSight allows remote configuration and easy integration with the security system so you can create automated responses.
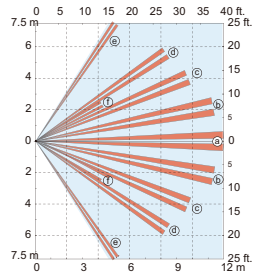
Wide and narrow spaces

A choice of InSight sensors make it possible to adapt to the area to protect:
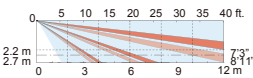
INS-HX-80 24 m (80ft)
INS-QXI-ST 12m (40ft.)
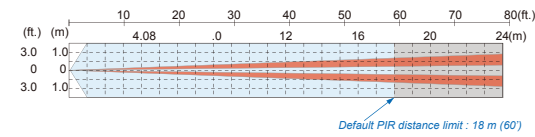
Coverage area

INS-QXI-ST

Top view
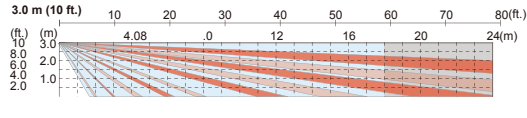

Side view

INS-HX-80N

Top view

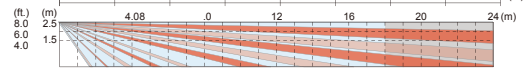*Default PIR distance limit : 18 m (60')*
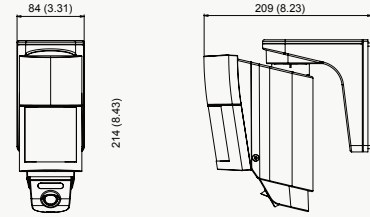
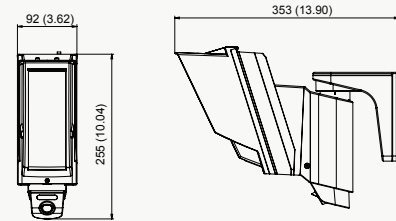**Side view**

3.0 m (10 ft.)

2.5 m (8.2 ft.)

If the device is set to detect at the maximum range of 24m (80ft) additional illumination will be needed to cover the entire detection distance.

Dimensions

INS-QXI-ST

84 (3.31) 209 (8.23) 214 (8.43)

INS-HX-80N

92 (3.62) 353 (13.90) 255 (10.04)

Specifications

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