

# 1118-1114-3011

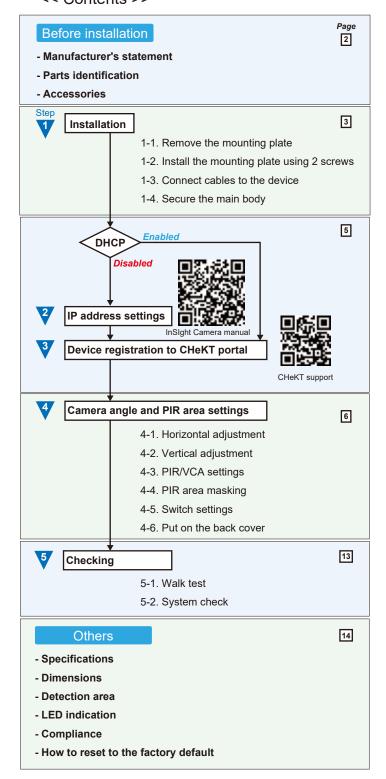
# INSTALLATION INSTRUCTIONS

EN

VISUAL VERIFICATION PIR CAMERA

# **◀ InSight** series

#### << Contents >>



Refer to the InSight Camera manual for details on IP address settings.



InSIght Camera manual

https://navi.optex.net/manual/50427/en/?type=cameramanual

If you do not have a CHeKT account, request a dealer account by visiting the CHeCK dealer site, before Step 3.



CHeKT dealer

www.chekt.com/registration

Refer to the CHeCK support site for more details.



CHeKT support

https://support.chekt.com

# - Manufacturer's statement

Symbol

#### Meaning



Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.

Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.

Symbol

#### Meaning



Nix sign indicates prohibition.



Check mark indicates recommendation.



Special attention is required to the section of this symbol.









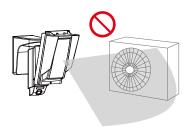




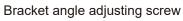


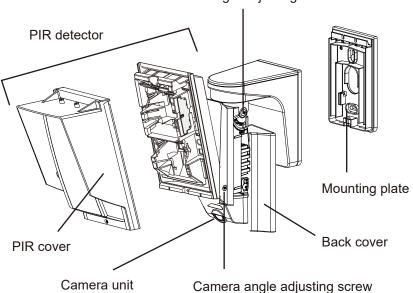




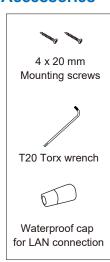


#### - Parts identification



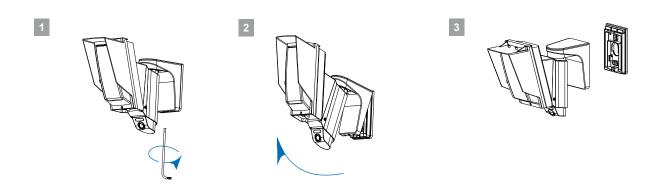


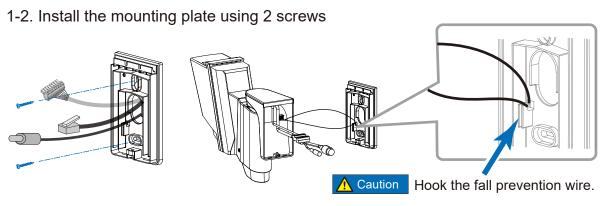
#### - Accessories



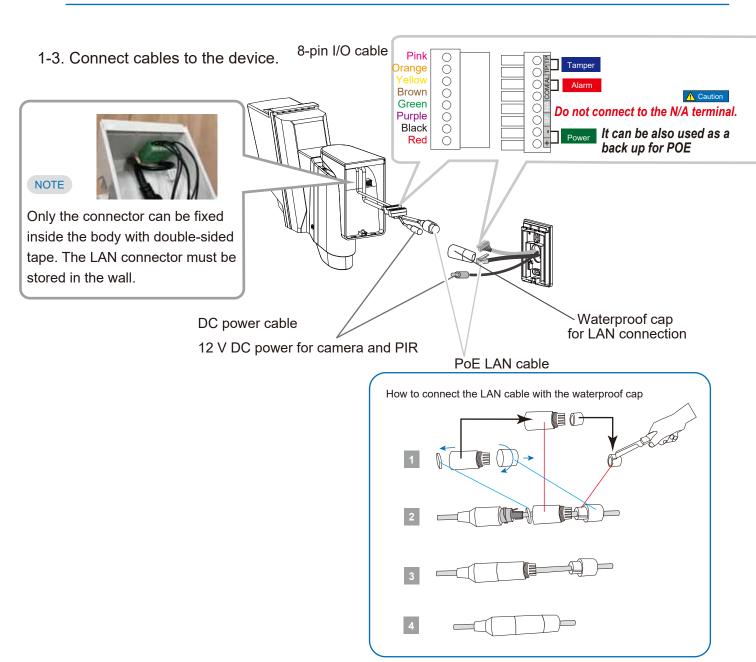


# 1-1. Remove the mounting plate





- NOTE To pass cables through the wall, drill a 25 mm (1") or larger hole in the wall.
  - Use a single gang box for exposed wiring.



# 1-4. Secure the main body



Caution Do not pinch the cables during assembly.



# Step



# IP address settings

If you do not have a DHCP server, it will set as follows after one minute.

Initial address: Refer to the label on the InSight

User name: root

Default password: OPTEX

Change your password as appropriate.

Download IP installer;

https://navi.optex.net/firmware/50427

In Sight Company

InSight Camera manual

https://navi.optex.net/manual/50427/en/?type=cameramanual/

Refer to the InSight Camera manual for more details.

# Step



# Device registration to CHeKT portal

Setup your CHeKT Dealer Portal:

- 1. Go to http://dealer.chekt.com/ to log in.
- 2. Select the Customer on the left side of the dashboard.
- 3. Select the Site Devices tab.
- 4. Select the bridge device to be associated with the sensor camera.
- 5. Access the bridge settings using the gear icon to its right.
- 6. Select the appropriate tab to register the PIR camera.

Refer to the CHeCK support site for more details.



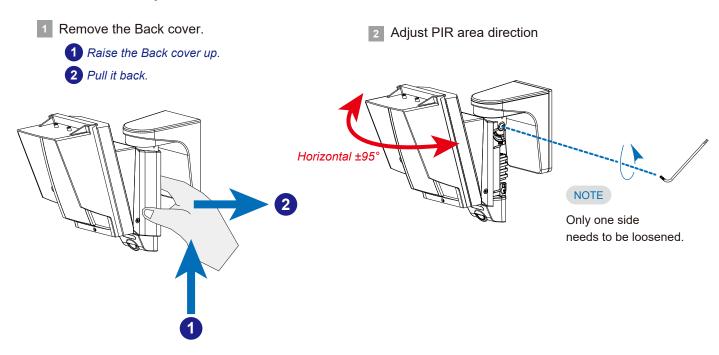
CHeKT support <a href="https://support.chekt.com">https://support.chekt.com</a>



Changing for each item in this step is optional.

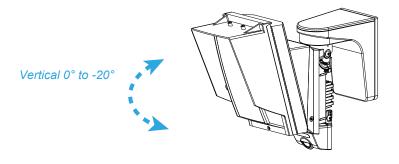
Check the default settings and if no changes are required, proceed to the next item.

# 4-1. Horizontal adjustment



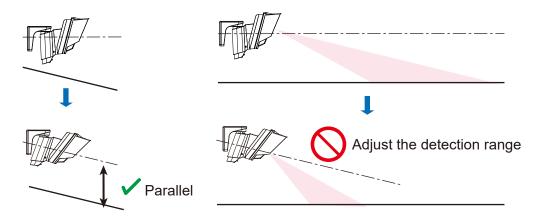
# 4-2. Vertical adjustment

1 PIR area adjustment



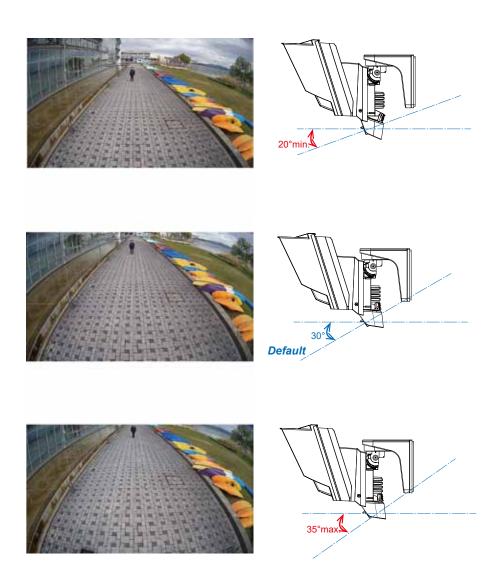
#### ↑ Caution

Do not use the vertical angle adjustment of the main unit other than adjusting the detection area surface to be parallel to the ground inclination.



2 Adjust the camera angle to view the detection area



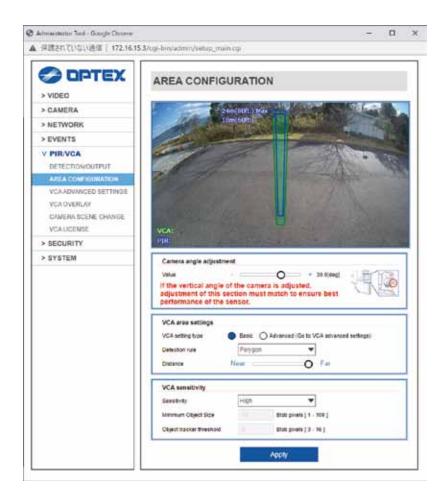


# 4-3. PIR/VCA settings

Refer to the InSight VCA manual for details on PIR and VCA area settings.



https://navi.optex.net/manual/50426/en/?type=VCAmanual





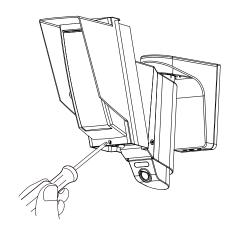
If the vertical angle of the camera is to be adjusted, adjustment of this sections must be matched to ensure the best performance of the sensor.



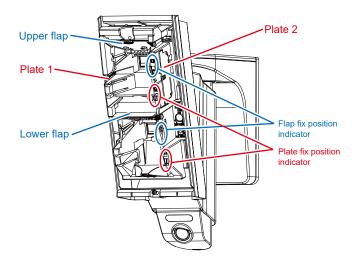
# 4-4. Detection range limit

The default settings are 18 m (60') at 2.5 m (8'2") mounting height. If no changes are required, proceed to the next item.

# 1 Open the PIR cover



2 Locate the masking flaps and plates

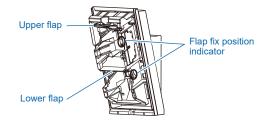




## 3 Adjust the long range settings to set the maximum distance

#### HOW TO CHANGE THE LONG RANGE DETECTION AREA

Set the upper and lower flaps as follows:



1 Pull out the flap.

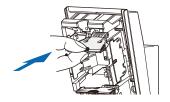




2 Move the flap to the position that corresponds with the desired detection distance, see table below.



3 Push the flap until it clicks into the position.

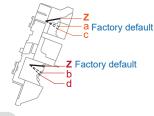


#### PIR long range detection area masking

The detection distance in the following table can be limited by combining the positions of the flap. Use the following table to determine the positions of the upper and lower flaps that set the required max. detection distance.

#### NOTE

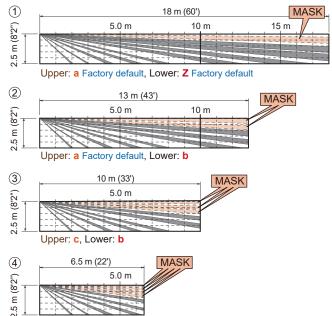
- 1. The distance may vary due to environmental conditions.
- 2. Always walk test the detector to confirm the detection distance.



#### NOTE

Use only the following combinations for the flap settings.

Lower	<b>z</b> Factory default	b	d
Z	24 m (80')	N.A.	N.A.
a Factory default	① 18 m (60')	② 13 m (43')	N.A.
С	N.A.	③ 10 m (33')	4 6.5 m (22')

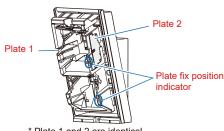


Upper: c, Lower: d

4 Adjust the short range settings to set the minimum distance

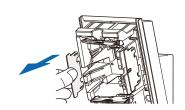
#### HOW TO CHANGE THE SHORT RANGE DETECTION AREA

Set the upper and lower plates follows:



\* Plate 1 and 2 are identical.

1 Remove the plate.



Insert the plate into the position determined by the required masking distance until it clicks, see table below.



3 If any plate is not used, place it in the storage position.



# PIR short range detection area masking

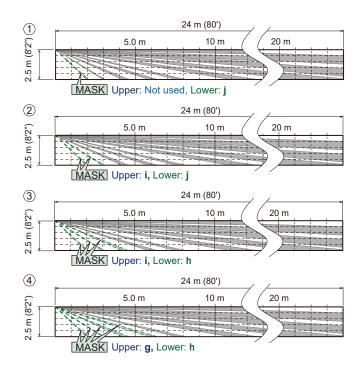
Use the following table to determine the positions of the plates that set the required masked area.



#### NOTE

Use only the following combinations for the plate settings.

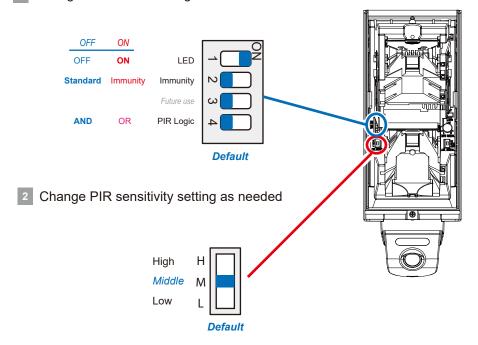
Lower	Not used	j	h
Not used	Factory default	1	N.A.
i	N.A.	2	3
g	N.A.	N.A.	4



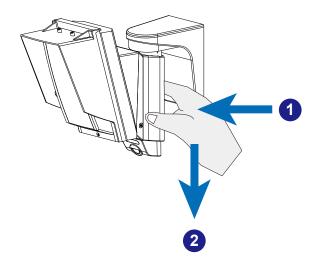


# 4-5. Switch settings

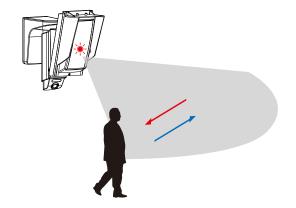
1 Change DIP switch settings as needed



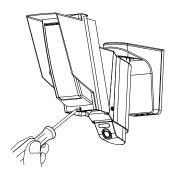
# 4-6. Put on the back cover



# 5-1. Walk test



- 1 Turn LED back ON, if it was turned OFF (DIP switch No. 1, Default ON).
- 2 Close the PIR cover.
- 3 Walk around the detection area to make sure it is set as intended.
- 4 If necessary, turn LED OFF again.
- 5 Fix the PIR cover with the cover lock screw after completion.



#### NOTE

- For the walk test, walk at least 1.0 m (3'3") away from the detector.
- Conduct a walk test at least once a year.

# 5-2. System check

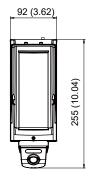
Check the image at the time of detection on the monitoring portal.

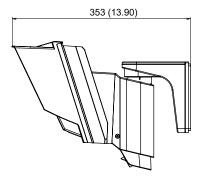
# - Specifications

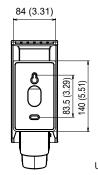
Model	INS-HX-80N	
Detection method	Passive infrared	
PIR coverage	24 m x 2.0 m (80' x 6'7") narrow	
PIR zones	20 zones	
PIR distance	6.5 m (22'), 10 m (33'), 13 m (43'), Default: 18 m (60'), 24 m (80')	
Detectable speed	0.3 to 1.5 m/s (1' to 5'/s)	
Sensitivity	2.0°C ( 3.6°F) at 0.6 m/s	
Power input	PoE (IEEE 802.3af compliant) Mini-jack 12 V DC 420 mA max. Terminal 9.5 to 18 V DC/ 35 mA max. at 12 V DC	
Alarm period	2.0 ± 1 s	
Warm-up period	Approx. 60 s (LED blinks)	
Alarm output	N.O./N.C. 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	
LED indicator	[1] Warm-up [2] Alarm	
Image sensor	1/2.8" CMOS	
Viewing angle	H: 114° V: 61°	
Minimum illumination	Color: 0.02 lux. 0 lux. with IR	
IR illumination	Visible up to 12 m	
Night vision	Day & Night Automatic/Manual switching	
Image compression	H.264, H.265, MJPEG	
Resolution/ frame rate	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	
Security	HTTPS(SSL), IP filtering, 802.1x, Digest authentication (ID/PW)	
Operation temperature	-30°C to +50°C(-22°F to +122°F)	
Environment humidity	95% max.	
International protection	IP 55	
Mounting	Wall (Outdoor, Indoor)/Gang box	
Mounting height	2.5 to 3.0 m (8'2" to 10')	
Weight	1.2 kg (42.3 oz)	
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 and designs are subject to change without prior notice.
- These units are designed to detect 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.

# - Dimensions

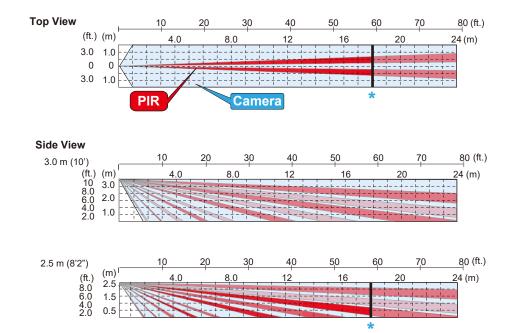






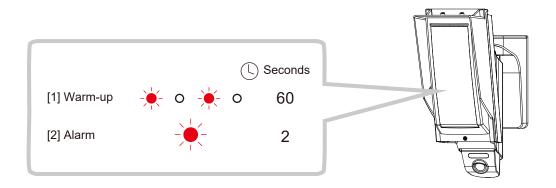
Unit: mm (inch)

# - Detection area



\* = Default PIR distance limit 18 m (60')

# - LED indicator



# - Compliance

#### **Personal Information**

This product is equipped with the function to produce moving image of the designated area and its surrounding, but not equipped with the function to store or register such image.

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. User of this product is deemed to be responsible for the compliance of any laws and regulations relating to personal information, privacy protection and rights of portrait upon use of this product. Image taken by this product is required to be treated appropriately under the responsibility of the user of this product.

Installation of this product, producing image, monitoring, recording with camera and handling of personal information or data shall all be performed under discretion and responsibility of user of this product, and OPTEX shall not be held liable for any dispute between a user and a third party.

#### **FCC** notification

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

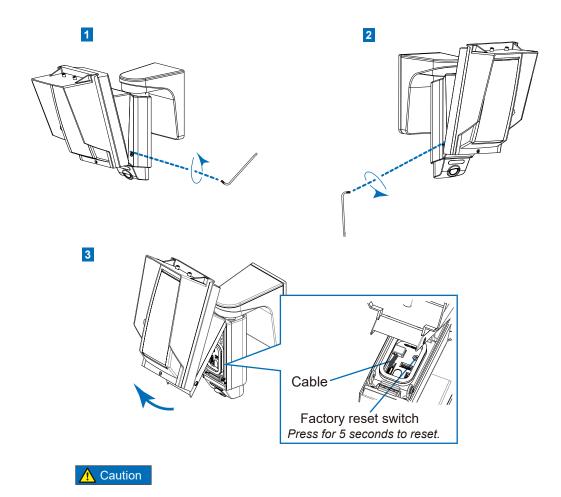
#### About distribution of source code for open source software

This product includes open source software (" OSS") distributed under OSS License. In compliance with the OSS Licenses such as GPL (GNU GENERAL PUBLIC LICENSE), LGPL (GNU LESSER-GENERAL PUBLIC LICENSE), and/or others included, we are making the source code of the OSS available, at the actual cost, to our customer upon his/her request. The source code corresponding to OSS included in this product will be provided in a prescribed manner for at least than three(3) years after the date of purchase. Please note that the OSS is provided without warranty of any kind.

# - How to reset to the factory default

Follow the steps below to perform a factory reset (for example, forget the password).

The IP address, ID, password and camera settings will be initialized.



Do not pinch the cables during assembly.



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