Step 7: Replace Camera Dome

1. Fit the dome onto the base, **ensuring the pin on the dome is aligned with the slot on the base before tightening the security screws**.

2. Ensure the rubber IR boot around the camera lens is firmly pressed against the inside of the dome.

3. Use the security key to tighten the captive screws.

Alignment Slot

Alignment Pin
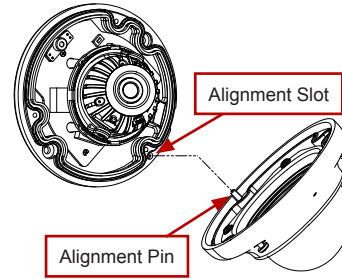
Specifications

Power Consumption	4 W (IR off); 5.5 W (IR on)
Operating Voltage Range	802.3af (powered by recorder or supported PoE switch)
Operating Temperature Range	-4 to 122°F (-20 to 50°C)
Resolution	NX/HX16: 1080p/720p (R1); 320 x 184 (R2)
Infrared LED Lamps	2 high efficiency LEDs
Minimum Illumination	Color: 0.88 lux (F1.6) B&W, IR LED on: 0 lux
Enclosure Size	Diameter: 4.14" (105 mm) Height: 2.6" (66 mm)
Enclosure Material	Solid aluminum alloy
Dome	Impact-resistant polycarbonate, anti-glare, scratch-resistant hard coating, UV protected
Camera Pigtail Connector Length	9.5" (24 cm)
Weight	0.8 lbs (0.35 kg)

Routine Maintenance

Most liquid cleaners or graffiti gel can be used to clean your camera enclosure. Do not use abrasive cleaners that can scratch the window and reduce visibility of the camera.

Replacing Damaged Housing

If the camera housing or dome is damaged or scratched, order a replacement housing from your camera distributor.

To remove and replace the housing, follow *Step 3 Open the Camera* and *Step 7 Replace Camera Dome*.

Service & Support

If your CHQ8PD dome camera is to be returned for service, please contact the Seon technical support team (**service@seon.com**/ **1.844.899.7366**), provide the model and/or serial# of your unit, and ask for a **Return Merchandise Authorization (RMA)** number. An **RMA#** allows the support team to better track your product when it comes in for service. Please show the RMA# on the **outside** of the package. ANY PRODUCT SENT WITHOUT AN RMA# MAY BE REFUSED!

Documentation

Additional copies of this guide, along with other supporting documentation can be found on the SafeFleet Community (https:// community.seon.com/ documents/)

CHQ8PD Dome Camera
Quick Installation Guide

The CHQ8PD camera with IR is designed for interior use only.

Installation Kit Contents

- 1 CHQ8PD camera, including dome, gasket, local video connector cable (RCA output jack)
- Weatherproof cap kit
- 2 #10 1" screws with washers
- 1 Security key
- 1 Drilling template
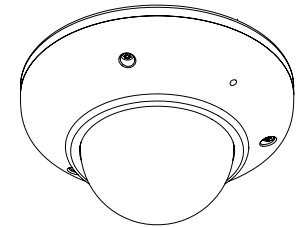
Step 1: Choose Camera Location

1. Determine the location for mounting the camera:
   - choose a solid surface to minimize vibration
   - choose a location away from access panels, hatches, or doors which may block the camera view
   - choose a location away from heat sources

   Cameras are usually installed with the cabling running inside the wall panels.

2. Use the supplied drilling guide template to mark the cable (7/8") and screw (5/32") holes on the panel.

3. Use a step-bit to drill the cable hole, and regular bits for the screw holes.

4. Connect the camera harness's RJ45 connector to an NX/HX16 recorder's POE HD CAM port (or a PoE switch, if applicable).

5. Thread the camera harness from the recorder to the camera location through the panel cable hole.

Tip: RJ45 Protective Cover

The camera harness ships with a protective plastic cover placed over the RJ45 jack to prevent damage to the connector and the locking tab during installation.

Leave the protective cover in place while routing the cable from the recorder to the camera location. Remove the cover when you're ready to connect the harness to the camera pigtail.
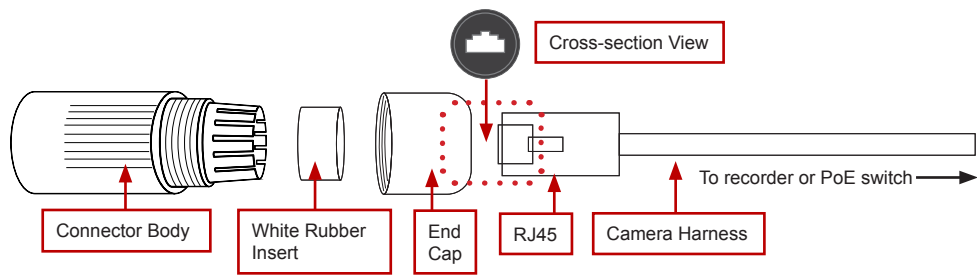
Step 2: Install Weatherproof Cap and Connect Camera

Tip: Install Weatherproof Cap

We highly recommend installing the supplied weatherproof cap.

Important: Do not cut or re-crimp cable

Installing the weatherproof cap does not require cutting the camera harness or re-crimping the cable.

Cross-section View

Connector Body | White Rubber Insert | End Cap | RJ45 | Camera Harness

To recorder or PoE switch →

1. Slide the End Cap over the RJ45 and onto the Camera Harness cable.
2. Push the Camera Harness cable through the cutout in the White Rubber Insert, so the insert sits on the cable between the End Cap and the RJ45.
3. Slide the Connector Body onto the cable (*"finger" side first*).
4. Push the White Rubber Insert inside the Connector Body.
5. Slide the supplied White Rubber Gasket onto the Camera Pigtail barrel connector as shown below.
6. Connect the male RJ45 on the Camera Harness to the female RJ45 jack on the Camera Pigtail.
7. Slide the Connector Body up to the Camera Pigtail's Barrel Connector and twist the body clockwise to lock it.
8. Install the End Cap and tighten clockwise.

Barrel Connector | Connector Body | End Cap

← To camera

To recorder or PoE switch →

Camera Pigtail | White Rubber Gasket | Camera Harness
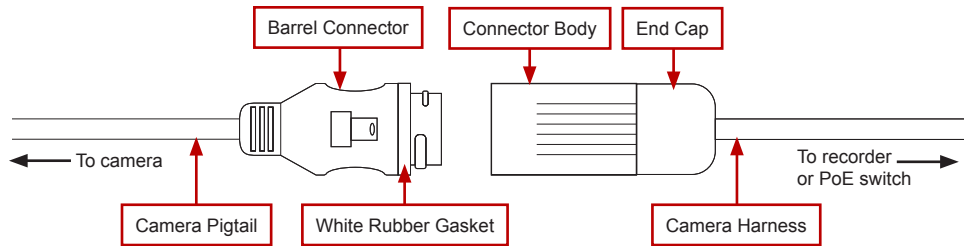
Step 3: Open the Camera

1. Using the security key supplied with the camera, loosen the captive screws on the housing.
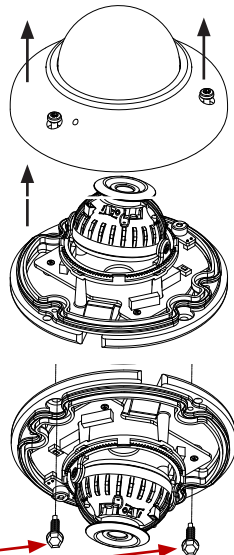2. Lift the housing off of the base.

Step 4: Install the Camera

Use the two #10×1.25" mounting screws supplied with the camera to attach the camera to the vehicle.
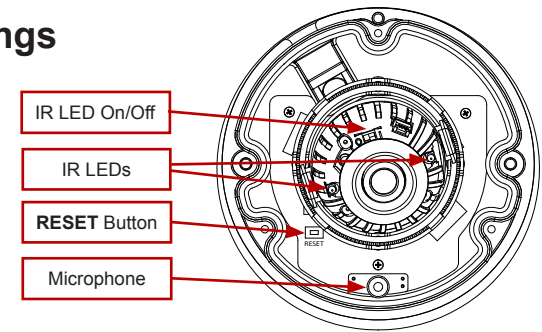

#10 x 1.25" Mounting Screws

Fold Here

Step 5: Configuration Settings

Reset switch and Infra-Red LED switch locations.

Reset	Press for 10 seconds to reset to factory defaults
IR LED On/Off	Switch I to O to turn off IR LEDs

IR LED On/Off
IR LEDs
RESET Button
Microphone

Tip: Camera reset may take a few minutes

After pressing and holding the **RESET** button for 10 seconds, allow a few minutes for the camera and recorder to re-establish communication.

Step 6: Aim and Configure the Camera

With the camera connected to the recorder and both powered on, access the recorder using a monitor connected to the recorder local video out and set the camera view position.

1. Before adjusting the camera, first loosen the camera's tilt adjustment screws.
2. With the recorder on-screen display showing the camera view, set the camera's tilt, pan, and rotate positions.
3. Re-tighten the gimbal screws.
4. Do not adjust after tightening screws.

Camera Tilt Adjustment Screws (2nd not shown)
Gimbal
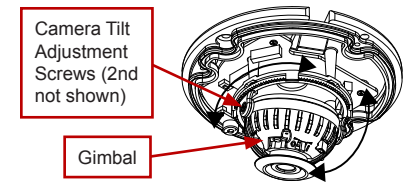
Tip: Do not adjust any other screws

The CHQ8PD camera has been factory-adjusted for lens position.

Back Light Compensation (HX16)

Use these steps if enabling back light compensation is requested.

1. In the HX16 recorder on-screen display, go to **Configuration➜Record➜Camera➜HD Settings ➜HD Network**.
2. In the **HD Network Settings** menu, select the channel tab for the CHQ8PD camera.
3. In the tab, select **On** to enable Back Light Compensation (BLC).

Setting BLC on NX16 Recorders

The procedure for setting Back Light Compensation (BLC) differs slightly for NX16 recorders. For details, please see the NX16 *Quick Install Guide*, available from the Safe Fleet Community (https://community.seon.com/documents/)