

## Specifications

Power Consumption	0.9 W (IR Off); 1.5 W (IR on)
Operating Voltage Range	8 to 14 VDC (powered by DVR)
Operating Temperature Range	-4 to 122°F (-20 to 50°C)
Resolution	1280 x 720p @30fps
Infrared LED Lamps	8 LEDs (5mm)
Minimum Illumination	Color: 0.1 lux (F2.0) B&W, IR LED on: 0 lux
Enclosure Size	Diameter : 4.13" (105 mm) Height: 2.79" (71 mm)
Enclosure Material	Solid aluminum alloy Rated IP54
Dome	Impact-resistant polycarbonate, anti-glare, scratch-resistant hard coating, UV protected
Camera Pigtail Connector Length	12" (30 cm)
Weight	Camera only: 0.76 lbs. (0.34 kg) Packaged: 1.06 lbs. (0.48 kg)

## Service & Support

If your HD1Q camera is to be returned for service, please contact the Safe Fleet Technical Support team, 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 documentation can be found on the Safe Fleet Community (<https://community.safefleet.net>).

## Warranty

For full warranty information, visit:

- [www.seon.com/documents/Seon-Warranty.pdf](http://www.seon.com/documents/Seon-Warranty.pdf)

## Contact Safe Fleet Tech Support

- Phone: 1.844.899.7366
- Email: [PTsupport@safefleet.net](mailto:PTsupport@safefleet.net)



2002/96/EC (WEEE directive): This product cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return the product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points, for more information, see [www.recyclethis.info](http://www.recyclethis.info).

2006/66/EC (battery directive): This product does not contain batteries.

# HD1QxxAI2 Series Dome Camera

## Quick Installation Guide



## Product Overview

This quick installation guide applies to the following camera models:

HD1QxxAI2, HD1QxxAI220, HD1QxxAI250, HD1QxxAI275

The HD1Q camera with IR is designed for interior use only.

The camera can be installed with or without an angle-mount post. This guide covers installation without the angle-mount post. For specific instructions on mounting the HD1Q with the angle-mount post, see the *Dome Camera Mounting Posts Installation Instruction Sheet* (part # 700-0188).



## Recorder Compatibility

The HD1Q camera is compatible with the following recorders:

DVRs – TH4, TH4C, DH4, DH4C, TH6, TH8; NVR – NH16 Hybrid

## Installation Kit Contents

- 1 HD1Q camera, including dome (dome part # 050-1044)
- 1 T10 security tool (part # 645-0008)
- 2 #8 screws (1" length, self-drilling Phillips, part # 600-1026)
- 1 mounting template (part # 700-1208)

### ⚠ IMPORTANT: Camera Harness Cable Compatibility

This camera requires a special Analog High Definition (AHD) camera harness - as indicated by a blue band in front of the connectors. The AHD harness is not included with the camera kit. If you require an AHD harness, please contact our customer service department to place an order.

## Step 1: Choose Camera Location

When choosing a camera mounting location, consider the desired field of view, area of focus, and camera assembly orientation.

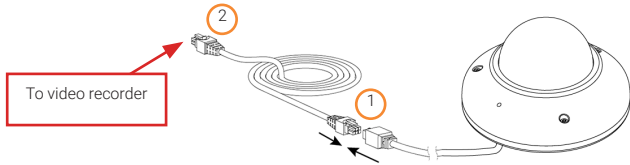
1. Determine a location for mounting the camera:
  - a. Choose a solid surface to minimize vibration
  - b. Choose a location away from access panels, hatches, or doors which may block the camera view
  - c. Choose a location away from heat sources
  - d. Cameras are usually installed with the cabling running inside the wall panels.
2. Use the supplied mounting template to mark the cable hole (0.83"/21 mm) and screw holes (0.16"/4mm).
3. Use a step-bit to drill the cable hole.

## Step 2: Remove Camera Dome

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

## Step 3: Connect Camera to Recorder

1. Connect the pigtail to the camera harness through the panel cable hole.  
*Important:* ensure the camera harness cable has a blue band in front of the connectors, indicating it is AHD-compatible.
2. Connect the camera harness 2x3 Microfit connector to the recorder.

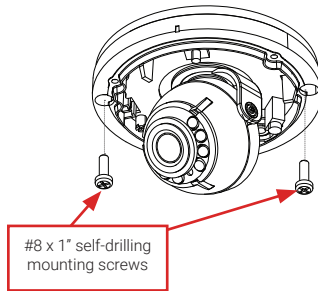


## Step 4: Install the Camera

### ⚠ CAUTION: Camera circuit board and wiring

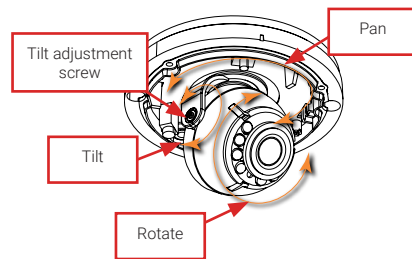
While installing the camera, do not impact the printed circuit board or wiring inside the camera with screws or screwdriver bits: damage to the camera can result.

Use the two #8 x 1" (25.4mm) self-drilling mounting screws supplied with the camera to attach the camera to the vehicle.



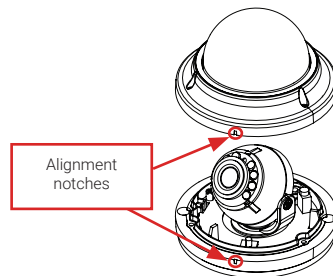
## Step 5: Aim the Camera

1. With a monitor connected to the recorder, power up the system. The monitor should display multiple camera views once the recorder is powered up.
  2. Double-click a camera tile image to display it in full-screen mode.
  3. Aim the camera by tilting\*, panning, and rotating as required.
- \*Loosen the two Phillips head tilt adjustment screws (one on each side of the gimbal), adjust tilt as required, then retighten the screws.



## Step 6: Replace Camera Dome

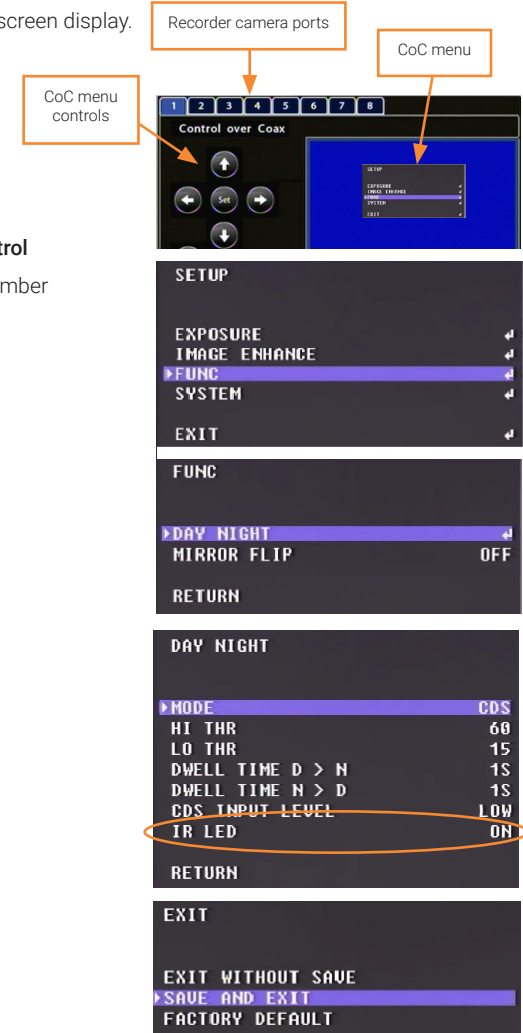
1. Fit the dome onto the base.  
**Ensure the notches on the edge of the dome and the camera base are aligned before tightening the security screws.**
2. Ensure the rubber IR boot around the camera lens is firmly pressed against the inside of the dome.
3. Use the security key to tighten the captive screws.



## Step 7: Configuration Settings for Forward-facing Applications

For improved image quality in forward-facing camera applications (through the windshield) we recommend the following procedure to disable infrared (IR) LEDs:

1. Right-click a recorder camera view to open the on-screen display.
2. Click **Configuration**.
3. Navigate to the Control over Coax (CoC) settings:
  - If connected to a TH4, TH4C, DH4, DH4C, or TH6 recorder:  
→ Record → Camera → Camera Advanced
  - If connected to a TH8 or NH16 recorder:  
→ Record → Camera → Analog → CoC Cam Control
4. Click the tab corresponding to the recorder port number connected to the HD1Q camera.
5. Click **Set** to display the **SETUP** menu.
6. Click **↓ twice** to highlight **FUNC**.
7. Click **Set** to open the **FUNC** menu.
8. Click **Set** (again) open the **DAY NIGHT** menu.
9. Click **↓ six times** to highlight **IR LED**.
10. Click **←** to toggle the **IR LED** setting **OFF**.
11. Click **↓** to highlight **RETURN**.
12. Click **Set** to return to the **FUNC** menu.
13. Click **↓ twice** to highlight **RETURN**.
14. Click **Set** to re-display the **SETUP** menu.
15. Click **↓ twice** to highlight **EXIT**.
16. Click **Set** to open the **EXIT** menu.
17. Click **↓** to highlight **SAVE AND EXIT**.
18. Click **Set** to save settings.  
The CoC menus close in a few seconds.



## 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 Dome Lid

If the dome bubble becomes scratched, cracked, or broken, please contact Safe Fleet Support to purchase a replacement.

To remove and replace the housing, follow the procedures in "Step 2: Remove Camera Dome" and "Step 6: Replace Camera Dome" on page 2.