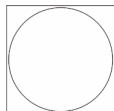




Quasar™ Premium PTZ AI Recessed Mount Camera Quick Install Guide

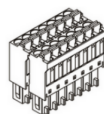
CP-6402-30-RA
Camera Body



**Ceiling Hole
Template**



**3-Pin 24 VAC
Power Connector**



**14-Pin I/O
Connector**

Items Included in Kit (images not to scale)

1 Check Contents

Make sure all of the items above are included in the camera kit. If any of these items are missing or damaged, contact your dealer or [Teledyne FLIR Support](#).

2 Select a Location



Warnings

- Placing a camera in an environment subject to extremely high temperature can result in an explosion or the leakage of flammable liquid or gas.
- Subjecting the camera to extremely low air pressure can result in an explosion or the leakage of flammable liquid or gas.
- The camera must be installed by qualified personnel and the installation should conform to all local codes.

Mount the camera indoors.

The camera's operating temperature range is -25° C to 50° C (-13° F to 122° F) without heater / -40° C to 50° C (-40° F to 122° F) with heater ; 10-90% non-condensing humidity.



Tip

To support video analytics (VA), mount the camera so that it can accurately detect and classify objects. For VA mounting and scene considerations, see the camera's installation and user guide.

Make sure you have the required accessories and tools. Make sure that the location provides a suitable method for routing cables to and from the camera.

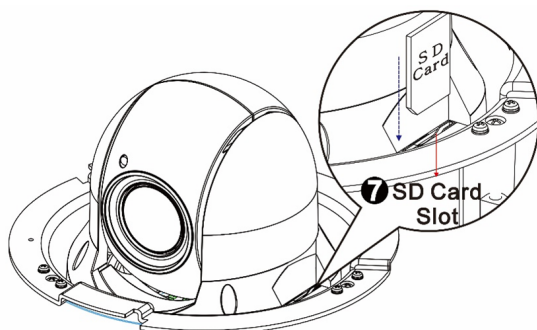
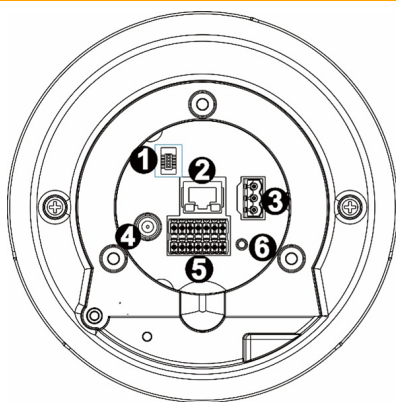
3 Connect the Camera

To install the camera, Teledyne FLIR recommends connecting the camera on a bench or in a lab and configuring it for networking before mounting and aiming it. However, circumstances can dictate adjusting the sequence of the steps. For example, you can mount the camera before configuring it for networking.



Warning

The camera itself does not have a power on/off switch. Do not supply power to the camera until you have completely finished connecting it.



Connectors

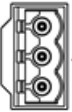
Connector		Connection
1	Console connector	Connector for camera repair / maintenance. For use only by Teledyne FLIR Support.
2	LAN RJ45 w/LEDs	For a 10/100/1000 Mbps Ethernet and PoE connection, attach an Ethernet cable from the network switch to the LAN RJ45 connector. Verify that the LAN connector LEDs are steady green and flashing yellow.

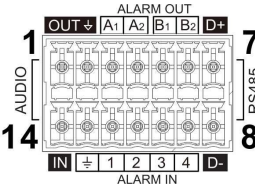


Warning

The PoE unit and all interconnected equipment must be installed indoors within the same building, including all PoE-powered network connections, as described by Environment A of the IEEE 802.3af standard.

Connector		Connection
3	AC24V IN 3-pin power terminal block	If using an external 24V AC power supply, attach wires from the power supply to the three-pin connector included in the camera kit according to the pin assignment below. Then, attach the connector to the terminal block.
 Warning The power cord to the 24V AC power supply unit must be connected to a socket outlet with an earthing connector.		
4	VIDEO	BNC connector for analog video output.
5	14-pin I/O terminal block	Attach wires from external alarm, audio, and other I/O devices to the 14-pin I/O connector included in the camera kit according to the pin assignment below. Then, attach the connector to the I/O terminal block.
6	DEFAULT	To restore the camera to its factory defaults, use a proper tool to press the default button for at least 20 seconds.
7	microSD card slot	For video clip and snapshot recording and file storage, insert a microSD / SDHC / SDXC card (up to 1 TB) in the card slot. When the camera is powered on, do not remove the microSD card.

3-Pin Power Connector	Pin	24V AC
	1	L (Live; white; positive)
	2	Ground (Earth)
	3	N (Neutral; black; negative)

14-Pin I/O Connector	Pin	Connection	Pin	Connection
	1	Audio-Out	8	RS-485 D-
	2	Ground (Audio I/O)	9	Alarm-In 4
	3	Alarm-Out A1	10	Alarm-In 3
	4	Alarm-Out A2	11	Alarm-In 2
	5	Alarm-Out B1	12	Alarm-In 1
	6	Alarm-Out B2	13	Ground (Alarm I/O)
	7	RS-485 D+	14	Audio-In


Warnings

- Do not connect an external power supply to the 14-pin I/O terminal block.
- This product contains a battery that is soldered to the PCB. There is a risk of explosion if the battery is replaced by an incorrect type. **Do not replace the battery.** The battery should be disposed of in accordance with the battery manufacturer’s instructions.

4 Configure for Networking

To discover the camera on the network, Teledyne FLIR recommends using the FLIR Discovery Network Assistant (DNA) tool, which does not require a license to use, and is [a free download from the Teledyne FLIR website](#). After downloading the DNA ZIP file, extract it.

You can configure the camera using the DNA tool, the camera's web page, or a supported VMS.

	DNA tool	Camera's web page
Discover camera IP address	•	
Configure IP address, mask, and gateway	•	•
Change user credentials	•	•
Configure DNS settings, MTU, and Ethernet speed		•
Change video format	•	•
Configure more than one camera at the same time	•	

While the software is open, click the Help icon .

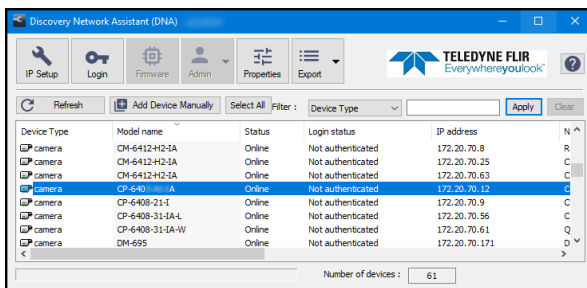
For information about using the camera's web page to configure the camera, see the camera's installation and user guide. For information about using a supported VMS to configure the camera, see the VMS documentation.

By default, DHCP is enabled on the camera and a DHCP server on the network assigns the camera an IP address. If the camera cannot connect to a DHCP server, the camera's default IP address is 192.168.0.250. For example, if the camera is managed by FLIR Horizon or Meridian VMS and the VMS is configured as a DHCP server, the VMS automatically assigns the camera an IP address.

If the camera is managed by FLIR Latitude VMS or is on a network with static IP addressing, you can manually specify the camera's IP address using the DNA tool or the camera's web page.

To manually specify the camera's IP address using the DNA tool:

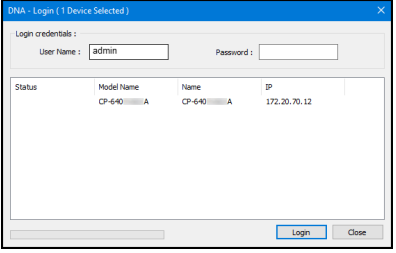
- a. Make sure the camera and the PC are on the same LAN segment.
- b. Run the DNA tool (DNA.exe) by double-clicking .
- The Discover List appears, showing compatible devices on the LAN segment and their current IP addresses.
- c. In the DNA Discover List, verify that the camera's status is Online.



If this is the first time you are configuring the camera or if it is the first time after resetting the camera to its factory defaults, DNA automatically logs in to the camera with user name *admin* and its default password (*admin*).

If the *admin* user's password is not the default password, you need to authenticate the camera.

1. In the DNA Discover List, select the camera and then click **Login** .
2. In the **DNA - Login** window, type *admin* or the name of any user assigned Admin privileges; and the password.
If necessary, contact the person who configured the camera's users.
3. Click **Login**, wait for  Ok status to appear, and then click **Close**.

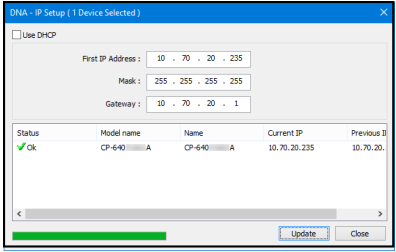


Status	Model Name	Name	IP
	CP-640	CP-640	172.20.70.12

Buttons: Login, Close

- d. Verify that the camera's Login status is Authenticated.
- e. Change the camera's IP address.

1. Right-click the camera and select **IP Setup**.
2. In the **DNA - IP Setup** window, clear *Use DHCP* and specify the camera's *IP address*. You can also specify the *Mask* (default: 255.255.255.0) and *Gateway*.
Then, click **Update**, wait for  Ok status to appear, and then click **Close**.



☐ Use DHCP

First IP Address : 10 . 70 . 20 . 235
Mask : 255 . 255 . 255 . 255
Gateway : 10 . 70 . 20 . 1

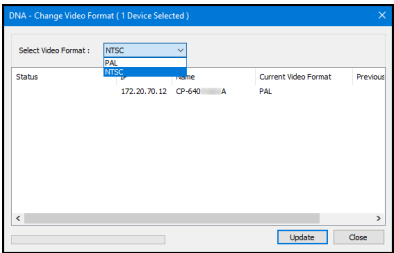
Status	Model name	Name	Current IP	Previous IP
 Ok	CP-640	CP-640	10.70.20.235	10.70.20.

Buttons: Update, Close

5 Change Video Format (Optional)

By default, NTSC is the camera's video format. You can change the camera's video format to PAL using the DNA tool.

- a. In the DNA Discover List, right-click the camera and select **Change Video Format**.
- b. In the **Change Video Format** window, select PAL. If Shutter WDR 30 FPS NTSC is the camera's current video format, it changes to Shutter WDR 25 FPS PAL. Likewise, if Linear 60 FPS NTSC is the camera's current video format, it changes to Linear 50 FPS PAL.
- c. Click **Update**, wait for  Ok status to appear, and then click **Close**.



6 Mount the Camera

Using the hardware included in the camera kit and the following tools, you can mount the camera in a ceiling:

- Tool for cutting or drilling a hole in the ceiling
- Philips head screwdriver for M4 thread

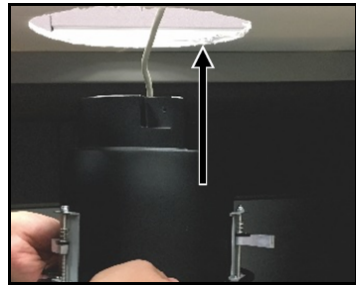
To mount the camera:

- a. Determine an appropriate location in the ceiling to mount the camera. Make sure to observe all of the relevant cautions and warnings in this guide. For example, before drilling, verify that electrical or other utility service lines are not present.
- b. At the determined mounting location, attach the ceiling hole template included in the camera kit to the ceiling.
- c. Using the appropriate tool for cutting or drilling a hole in the ceiling, make a $\varnothing$ 192mm hole in the ceiling.

- d. Remove the camera dome cover by turning it counterclockwise.
- e. Route Ethernet and other cables through the ceiling opening. Then,

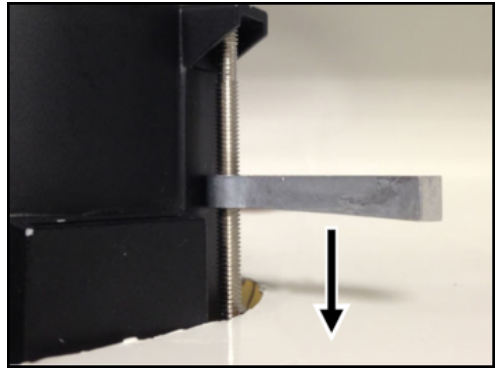
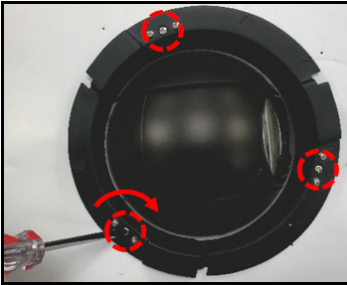


- f. Align and position the camera in the ceiling opening.



- g. Attach the camera to the ceiling. Use a Philips head screwdriver to turn the three ceiling clamp screws clockwise.

As you tighten the screws, the clamps move toward the ceiling and then they clamp onto the ceiling.



Make sure the clamps are tightly clamped onto the ceiling and that the camera's outer ring is flush with the ceiling.

- h. Re-attach the camera dome cover.

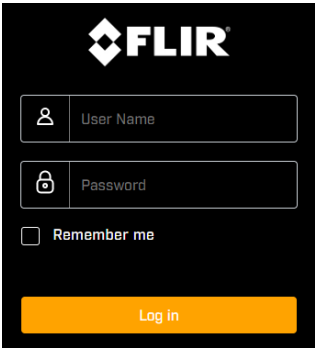


7 Complete Camera Setup

To complete camera setup — for example, to format the microSD card — you need to access the camera's web page with the default *admin* user or with another user assigned Admin or Expert privileges. The camera web page supports the latest version of Google Chrome® and other popular web browsers.

To access the camera's web page:

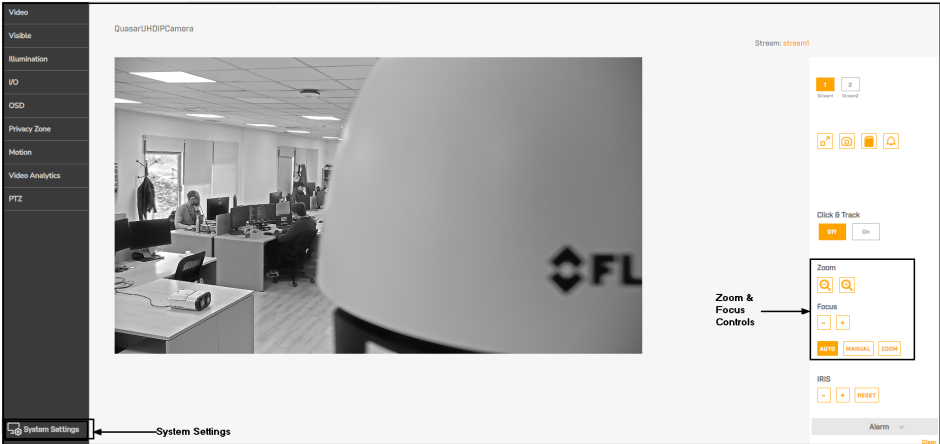
- a. Do one of the following:
 - In the Teledyne FLIR Discovery Network Assistant (DNA) tool, double-click the camera in the Discover List.
 - Type the camera's IP address in a browser's address bar (when the PC and the camera are on the same network). If you do not know the camera's IP address, you can use the DNA tool to discover it.
- b. On the login screen, enter a user name and password. If necessary, contact the person who configured the camera's users and passwords.



When logging in to the camera for the first time or for the first time after resetting the camera to its factory defaults:

1. Log in with user name *admin* and the default password, *admin*.
2. Specify a new password for *admin*:
 - must be 8-64 characters
 - can include the following special characters: @#~!\$&<>+_-.,*?
 - cannot include four-digit sequences (for example, 1234)
 - cannot include four repeating characters (for example, aaaa)
3. Log back in using the new password.

The camera's View Settings home page opens.



Camera Web Page for Admin / Expert Users - Light Mode

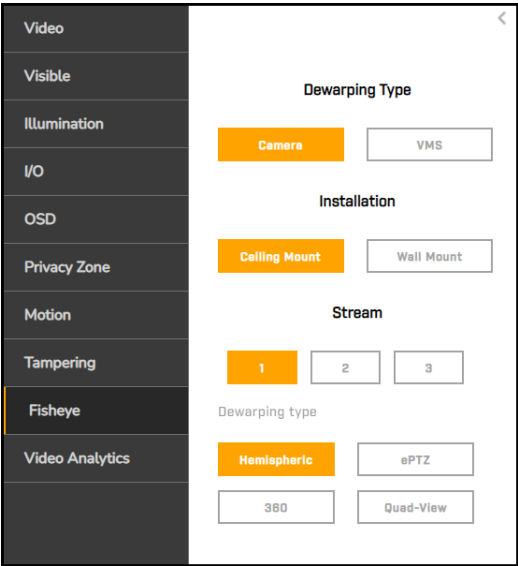
To adjust the zoom and focus:

Use the controls on the View Settings home page. They are available when a View Settings menu page is not open.

To configure the fisheye lens features:

- a. Open the Fisheye page.
- b. Configure the dewarping type:
 - **Camera (default)**—You can separately configure the Dewarping Type for each video stream.
 - **VMS**—See the VMS documentation.

Camera Dewarping Types
Hemispheric (default) —The camera streams its original, warped 360° image.
ePTZ —The camera streams a single image with electronic pan / tilt / zoom enabled. Using the mouse, click and drag the blue pointer ➡ that appears overlaid onto the live video.



Fisheye Page - Default Settings

Installation	
Ceiling Mount (Default)	Wall Mount
360 —The camera streams two 180° images.	180 —The camera streams a single 180° image.
Quad-View —The camera streams four images with ePTZ enabled. You can separately and independently pan, tilt, and zoom each image.	Dual-View + 180 —The camera streams three images: two images with ePTZ enabled, and one 180° image.

To format the microSD card:

- a. Click **System Settings**. Then, open the SD Card page.

- b. Under SD Format, select *vfat* (default) or *ext4* (recommended).
- c. Click **Format**.



Additional Configuration Steps

Depending on installation and use, completing camera setup can also consist of adjusting the camera's zoom and focus; configuring the camera's video analytics; and configuring or modifying the default video stream and visible picture settings; network security settings; and alarm settings.

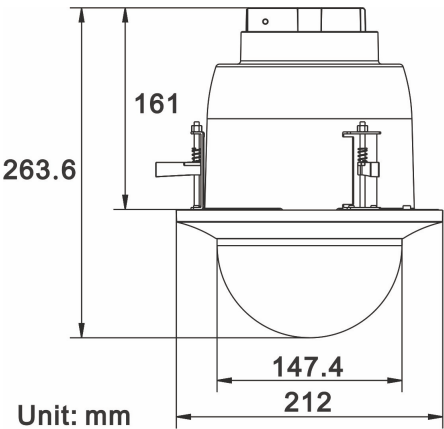
Many configuration steps can be performed before or after mounting the camera. However, some of them can or should only be performed after mounting the camera. For example, configure the camera's video analytics after mounting the camera.

For more information about configuring the camera, see the camera's installation and user guide.

8 Attach the Camera to a Supported VMS

After mounting the camera and discovering or defining its IP address, use VMS Discovery/Attach procedures to attach the camera to a supported VMS.

Camera Dimensions



Register the Product

Register the product at <https://customer.flir.com>.

For warranty information, see <https://www.flir.com/support-center/warranty/security/flir-security-product-warranties/>.

Contact Information

Teledyne FLIR LLC

Antennvägen 6

PO Box 7376

SE-187 15 Täby Stockholm County

187 66

Sweden

Support: <https://support.flir.com/>