
Quasar™ Gen III

**Installation
Manual**



CP-6302-30-R



CP-6302-31-P



CP-6302-31-I

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For additional information visit www.flir.com or write to Teledyne FLIR LLC

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Proper Disposal of Electrical and Electronic Equipment (EEE)



The European Union (EU) has enacted Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE), which aims to prevent EEE waste from arising; to encourage reuse, recycling, and recovery of EEE waste; and to promote environmental responsibility.

In accordance with these regulations, all EEE products labeled with the “crossed out wheeled bin” either on the product itself or in the product literature must not be disposed of in regular rubbish bins, mixed with regular household or other commercial waste, or by other regular municipal waste collection means. Instead, and in order to prevent possible harm to the environment or human health, all EEE products (including any cables that came with the product) should be responsibly discarded or recycled.

To identify a responsible disposal method nearby, please contact the local waste collection or recycling service, the original place of purchase or product supplier, or the responsible government authority in the area. Business users should contact their supplier or refer to their purchase contract.

Document History

Version	Date	Comment
Ver. 1	Jan 17, 2018	Initial FLIR Release
Ver. 3	June 25, 2020	Replaced mounting information, added accessory information, and updated sponge content
Ver. 4	January 31, 2021	Added information about the product, registration and warranty, accessing camera information from the web, initial configuration, and securing the camera
Ver. 5	December 24, 2021	Teledyne FLIR company name change; camera browser-based user interface support for Google Chrome®, Mozilla Firefox®, and Microsoft Edge®; 30VDC power input support; updated password policy
Ver. 6	May 2022	Changed mounting content; added new mounting accessories

Product Registration and Warranty Information

Register your Product with Teledyne FLIR at <https://customer.flir.com>.

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

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1 Document Scope and Purpose

This document describes how to mount and initially configure a CP-6302 Range camera. For general information about the camera and information about operating and configuring the camera after installing it, including how to configure it to perform video analysis and detection, see the *Quasar Gen III CP-6302 Range User Guide*.



Note:

This document is intended for use by technical users who have a basic understanding of CCTV camera/video equipment and LAN/WAN network connections.

Remarque:

Ce document est destiné aux utilisateurs techniciens qui possèdent des connaissances de base des équipements vidéo/caméras de télésurveillance et des connexions aux réseaux LAN/WAN.



Warning:

Installation must follow safety, standards, and electrical codes as well as the laws that apply where the units are being installed.

Avertissement:

L'installation doit respecter les consignes de sécurité, les normes et les codes électriques, ainsi que la législation en vigueur sur le lieu d'implantation des unités.

Disclaimer

Users of Teledyne FLIR products accept full responsibility for ensuring the suitability and considering the role of the product detection capabilities and their limitation as they apply to their unique site requirements.

Teledyne FLIR LLC and its agents make no guarantees or warranties to the suitability for the users' intended use. Teledyne FLIR LLC accepts no responsibility for improper use or incomplete security and safety measures.

Failure in part or in whole of the installer, owner, or user in any way to follow the prescribed procedures or to heed WARNINGS and CAUTIONS shall absolve Teledyne FLIR and its agents from any resulting liability.

Specifications and information in this guide are subject to change without notice.

Avis de non-responsabilité

Il incombe aux utilisateurs des produits Teledyne FLIR de vérifier que ces produits sont adaptés et d'étudier le rôle des capacités et limites de détection du produit appliqués aux exigences uniques de leur site.

Teledyne FLIR LLC et ses agents ne garantissent d'aucune façon que les produits sont adaptés à l'usage auquel l'utilisateur les destine. Teledyne FLIR LLC ne pourra être tenu pour responsable en cas de mauvaise utilisation ou de mise en place de mesures de sécurité insuffisantes.

Le non respect de tout ou partie des procédures recommandées ou des messages d'AVERTISSEMENT ou d'ATTENTION de la part de l'installateur, du propriétaire ou de l'utilisateur dégage Teledyne FLIR LLC et ses agents de toute responsabilité en résultant.

Les spécifications et informations contenues dans ce guide sont sujettes à modification sans préavis.



A **Warning** is a precautionary message that indicates a procedure or condition where there are potential hazards of personal injury or death.

Avertissement est un message préventif indiquant qu'une procédure ou condition présente un risque potentiel de blessure ou de mort.



A **Caution** is a precautionary message that indicates a procedure or condition where there are potential hazards of permanent damage to the equipment and or loss of data.

Attention est un message préventif indiquant qu'une procédure ou condition présente un risque potentiel de dommages permanents pour l'équipement et/ou de perte de données.



A **Note** is useful information to prevent problems, help with successful installation, or to provide additional understanding of the products and installation.

Une **Remarque** est une information utile permettant d'éviter certains problèmes, d'effectuer une installation correcte ou de mieux comprendre les produits et l'installation.



A **Tip** is information and best practices that are useful or provide some benefit for installation and use of Teledyne FLIR products.

Un **Conseil** correspond à une information et aux bonnes pratiques utiles ou apportant un avantage supplémentaire pour l'installation et l'utilisation des produits Teledyne FLIR.

General Cautions and Warnings

This section contains information that indicates a procedure or condition where there are potential hazards.

SAVE ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE USE.

Although the unit is designed and manufactured in compliance with all applicable safety standards, certain hazards are present during the installation of this equipment.

To help ensure safety and to help reduce risk of injury or damage, observe the following:

Précautions et avertissements d'ordre général

Cette section contient des informations indiquant qu'une procédure ou condition présente des risques potentiels.

CONSERVEZ TOUTES LES INSTRUCTIONS DE SÉCURITÉ ET D'UTILISATION POUR POUVOIR VOUS Y RÉFÉRER ULTÉRIEUREMENT.

Bien que l'unité soit conçue et fabriquée conformément à toutes les normes de sécurité en vigueur, l'installation de cet équipement présente certains risques.

Afin de garantir la sécurité et de réduire les risques de blessure ou de dommages, veuillez respecter les consignes suivantes:



Caution:

- The unit's cover is an essential part of the product. Do not open or remove it.
- Never operate the unit without the cover in place. Operating the unit without the cover poses a risk of fire and shock hazards.
- Do not disassemble the unit or remove screws. There are no user serviceable parts inside the unit.
- Only qualified trained personnel should service and repair this equipment.
- Observe local codes and laws and ensure that installation and operation are in accordance with fire, security and safety standards.

Attention:

- *Le cache de l'unité est une partie essentielle du produit. Ne les ouvrez et ne les retirez pas.*
- *N'utilisez jamais l'unité sans que le cache soit en place. L'utilisation de l'unité sans cache présente un risque d'incendie et de choc électrique.*
- *Ne démontez pas l'unité et ne retirez pas ses vis. Aucune pièce se trouvant à l'intérieur de l'unité ne nécessite un entretien par l'utilisateur.*
- *Seul un technicien formé et qualifié est autorisé à entretenir et à réparer cet équipement.*
- *Respectez les codes et réglementations locaux, et assurez-vous que l'installation et l'utilisation sont conformes aux normes contre l'incendie et de sécurité.*



Caution:

- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera lens at strong light, such as the sun or an incandescent lamp, which can seriously damage the camera.
- Make sure that the surface of the sensor is not exposed to a laser beam, which could burn out the sensor.
- If the camera will be fixed to a ceiling, verify that the ceiling can support more than 112 newtons (112-N) of gravity, or over three times the camera's weight.
- The camera should be packed in its original packing if it is reshipped.



Caution:

To avoid damage from overheating or unit failure, assure that there is sufficient temperature regulation to support the unit's requirements (cooling/heating). Operating temperature should be kept within the range specified by the camera's technical specifications.

Attention:

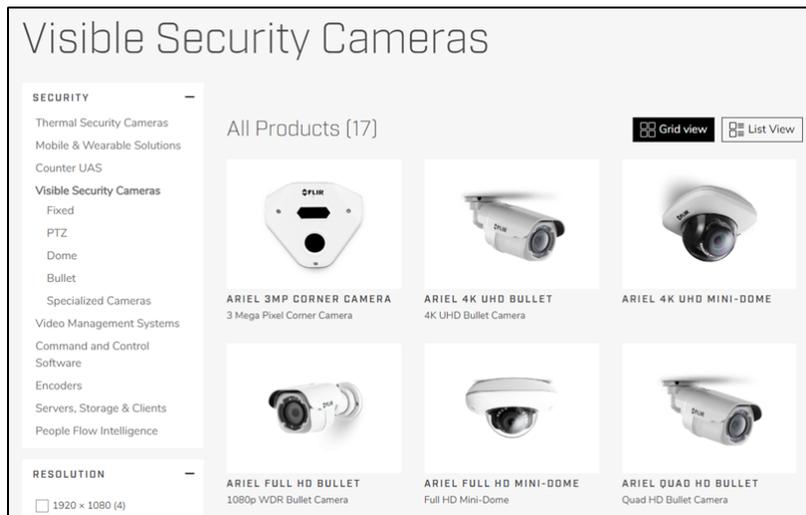
Afin d'éviter tout dommage dû à une surchauffe ou toute panne de l'unité, assurez-vous que la régulation de température est suffisante pour répondre aux exigences de l'unité (refroidissement/chauffage). La température de fonctionnement doit être maintenue dans l'intervalle spécifié par les spécifications techniques de la camera.

2 Accessing Product Information from the Teledyne FLIR Website

Up-to-date resources for the camera, including the camera's specifications, the Teledyne FLIR Discovery Network Assistant (DNA) software tool, and this guide, are available from the camera's product details and support pages on [the Teledyne FLIR website](https://www.flir.com).

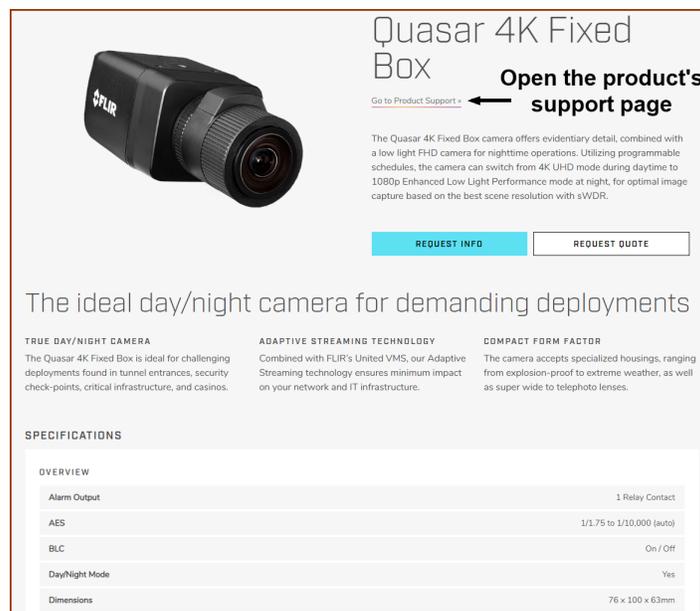
To access product information from the Teledyne FLIR website:

1. Open <https://www.flir.com/browse/security/> and navigate to [Products > Security > Visible Security Cameras](#).



Visible Security Cameras Page on the Teledyne FLIR Website

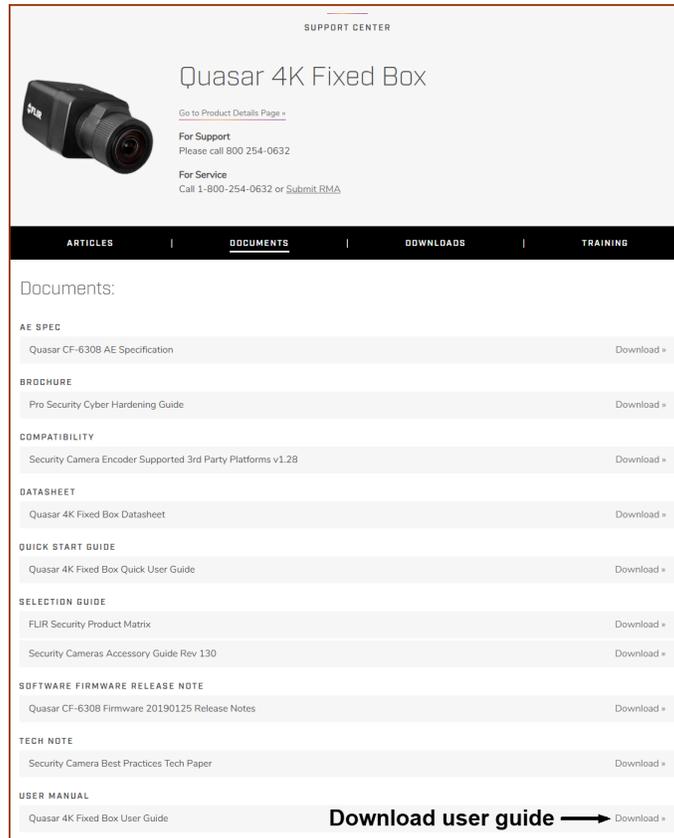
2. Find and click the camera. The camera's product details page appears.



Product Details Page (Example)

To see the camera's specifications and related content, scroll down.

3. Click **Go to Product Support**. The camera's support page appears.
4. Download product documentation from the Documents tab.



Product Support Page Documents Tab (Example)

5. Download the DNA tool from the Downloads tab.

3 Overview

The Quasar Gen III CP-6302 Range Pan/Tilt/Zoom (PTZ) cameras provide real-time video with high-definition quality at Full HD 1080p. The CP-6302 Range features gyro-based electronic image stabilization, servo feedback for precise preset positioning at frames rates up to 50/60 fps, and True Shutter Wide Dynamic Range at frames rates up to 25/30 fps. With 10x digital zoom, 30x optical zoom, and high-speed PTZ functionality, the Quasar Gen III CP-6302 can quickly cover a wide monitoring area with a high level of detail. The CP-6302-31-I model also features IR illumination up to 200 meters (656 feet)

Up to four streams can be run simultaneously with H.265, H.264 or MJPEG compression, providing an ideal solution when differing levels of image quality are required. The camera can increase frame rate and level of detail when events are triggered. In addition, Teledyne FLIR's adaptive streaming algorithms provide the highest image quality with the lowest bandwidth and storage requirements.



CP-6302-30-R



CP-6302-31-P



CP-6302-31-I

Caution:

If you are using FLIR Latitude VMS, we recommend that you configure the camera's settings via the AdminCenter. This is because the camera's web-based interface might be overwritten by Latitude settings. Refer to the Latitude online help for information regarding configuring camera settings.

Attention:

Si vous utilisez le logiciel de gestion de vidéo Latitude de FLIR, nous vous conseillons de configurer les paramètres de la caméra via l'AdminCenter. En effet, l'interface Internet de la caméra peut être remplacée par les paramètres Latitude. Veuillez consulter l'aide en ligne Latitude pour de plus amples informations sur la configuration des paramètres de la caméra.

3.1 Features

- 10x digital zoom and 30x optical zoom
- Low-lux mode
- Infrared LED illuminator (see Note 1)
- White Balance, Backlight Compensation, and WDR
- Built-in web application/web server
- Two-way audio
- Edge motion detection
- Detection event driven alarms
- FTP upload (up to two locations)
- E-mail SMTP alarm notification (up to two e-mails)
- Sequential snapshot numbering
- ONVIF support
- Security IP restricted access allow/deny list
- UPnP support
- Servo motor for precise positioning and preset location
- 1/2.8" Sony Progressive scan CMOS sensor
- True day/night (ICR)
- IR coverage up to 200m (see Note 1)
- 2DNR/3DNR/ColorNR
- HTTP streaming MJPEG
- 4 alarm input driven events
- Electrical Image Stabilizer
- Remote firmware upgrade
- Upload alarm images to FTP
- Up to 1TB SD / microSDXC card local recording support
- SNMP v1/v2/v3 and SNMP traps
- RTSP support
- Multiple users
- Vandal-proof IP66 enclosure
- Supports PoE++, UPOE, 30VDC, and 24VAC
- Four encoder streams
- PTZ tracking
- IR illumination adjusted by zoom ratio (see Note 1)
- Up to 50/60 fps frame rate
- H.265, H.264 and MJPEG compression
- 2 relay output actions on alarm
- Six exposure modes
- Dual HTTP notification server support (up to two servers)
- Send images on alarm to e-mail
- Record snapshots to local SD / microSDXC card or to NAS on alarm
- 20 privacy masks
- Per-user permissions
- Group permissions
- Built-in heater
- Analog, IP and RS-485 output connections

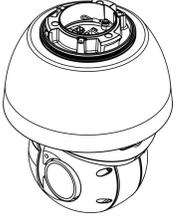
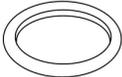
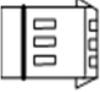
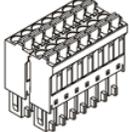
Notes:

1. Only in IR model

3.2 Package Contents

Before proceeding, check that the box contains the items listed here. If any item is missing or has defects, do not install or operate the product. Contact your dealer for assistance.

Note: Package Contents vary slightly between models.

 <p>Camera Body*</p>	 <p>O-Ring</p>	 <p>Pendant Cap</p>	 <p>Hard Ceiling Mount M4 Screw with Rubber Gasket</p>
 <p>3-Pin 24VAC / 30VDC Power Terminal Block</p>	 <p>14-Pin Alarm/Audio I/O Terminal Block</p>	 <p>Quick Installation Guide</p>	

Package Contents

Notes:

1. CP-6302-30-R is supplied without the upper cover.
2. CP-6302-30-R and CP-6302-31-P are supplied with transparent dome.



Note:

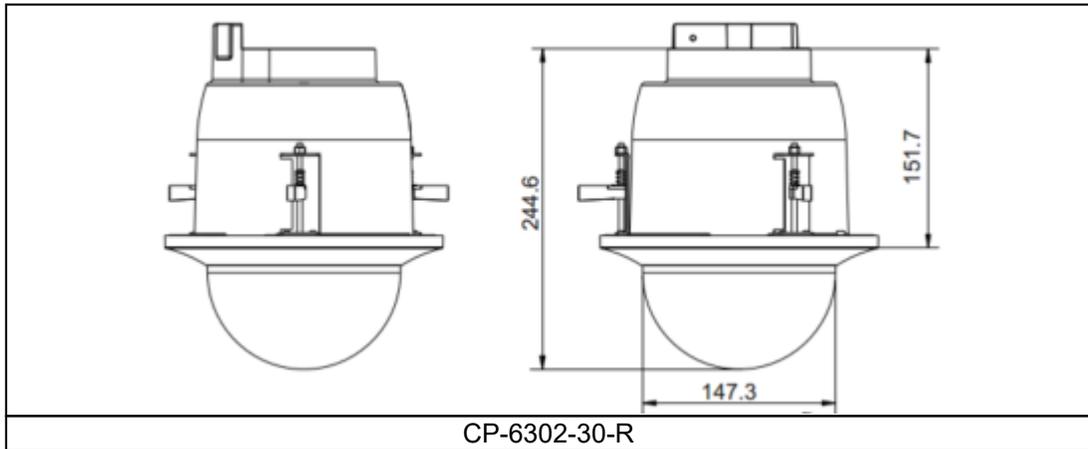
The self-tapping screws are mainly for softer substrate/material installation such as wood. For other installation materials such as cement ceilings, it is necessary to pre-drill and use plastic anchors before fastening the supplied self-tapping screws into the wall.

Related Documentation

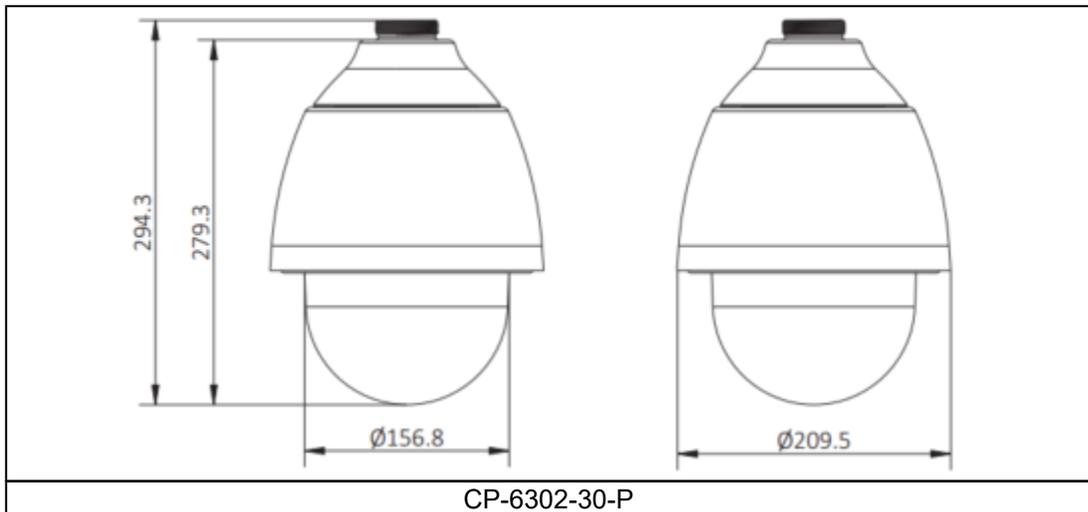
- *Quasar Gen III CP-6302 Range User Guide*
- *Quick Installation Guide (for the relevant CP-6302 model)*
- *DNA User Manual*

3.3 Camera Dimensions

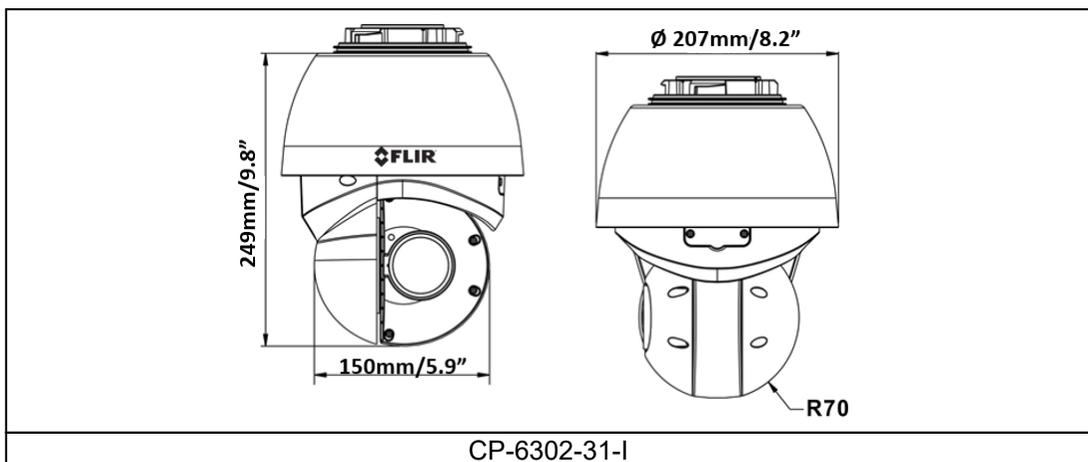
Following are the camera's dimensions.



CP-6302-30-R



CP-6302-30-P



CP-6302-31-I

Notes:

1. The P and R models are supplied with a clear dome.
2. 30R Recessed model has different top cover.

3.4 System Requirements

To access the camera via a web browser, ensure that your PC has the proper network connection and meets system requirements as described below.

Item	Minimum System Requirement
Personal Computer	Minimum: Intel® Core™ i5-2430M, 2.4 GHz; 2GB RAM or more Recommended: Intel® Core™ i7-870, 2.93 GHz; 8GB RAM
Operating System	Windows Server 2012; Windows 7, 8, 8.1, and 10
Web Browser	Microsoft Internet Explorer® 10 and higher (32-bit) with the ActiveX® plug-in; Google Chrome® v.55 and higher; Mozilla Firefox® v.50 and higher; Microsoft Edge® v.38 and above
Network Card	10BaseT (10 Mbps) or 100Base-TX (100 Mbps)

4 Installation

The CP-6302-31-P PTZ and CP-6302-31-I IR PTZ cameras are designed for outdoor installation.

For outdoor installation, Teledyne FLIR recommends:

- Always use weatherproof equipment, such as boxes, receptacles, connectors, etc.
- For electrical wiring, use the properly rated sheathed cables for conditions to which the cable will be exposed (for example, moisture, heat, UV, physical requirements, etc.).
- Plan ahead to determine where to install infrastructure weatherproof equipment. Whenever possible, ground components to an outdoor ground.
- Use best security practices to design and maintain secured camera access, communications infrastructure, tamper-proof outdoor boxes, etc.
- All electrical work must be performed in accordance with local regulatory requirements.

The CP-6302-30-R recessed model will normally be installed indoors. Normal installation standards should be applied.

4.1 Site Preparation

There are several requirements that should be properly addressed prior to installation at the site.

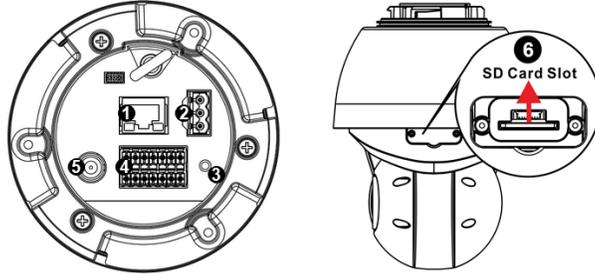
The following specifications are requirements for proper installation and operation of the unit:

- **Ambient Environment Conditions:** Avoid positioning the unit near heaters or heating system outputs. Avoid exposure to direct sunlight. Use proper maintenance to ensure that the unit is free from dust, dirt, smoke, particles, chemicals, smoke, water or water condensation, and exposure to EMI.
- **Accessibility:** The location used should allow easy access to unit connections and cables.
- **Safety:** Cables and electrical cords should be routed in a manner that prevents safety hazards, such as from tripping, wire fraying, overheating, etc. Ensure that nothing rests on the unit's cables or power cords.
- **Ample Air Circulation:** Leave enough space around the unit to allow free air circulation.
- **Cabling Considerations:** Units should be placed in locations that are optimal for the type of video cabling used between the unit and the cameras and external devices. Using a cable longer than the manufacturer's specifications for optimal video signal may result in degradation of color and video parameters.
- **Physical Security:** The unit provides threat detection for physical security systems. In order to ensure that the unit cannot be disabled or tampered with, the system should be installed with security measures regarding physical access by trusted and un-trusted parties.
- **Network Security:** The unit transmits over IP to security personnel for video surveillance. Proper network security measures should be in place to assure networks remain operating and free from malicious interference. Install the unit on the backbone of a trusted network.
- **Electrostatic Safeguards:** The unit and other equipment connected to it (relay outputs, alarm inputs, racks, carpeting, etc.) shall be properly grounded to prevent electrostatic discharge.

The physical installation of the unit is the first phase of making the unit operational in a security plan. The goal is to physically place the unit, connect it to other devices in the system, and to establish network connectivity. When finished with the physical installation, complete the second phase of installation, which is the setup and configuration of the unit.

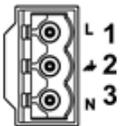
4.2 Camera Connectors - All models

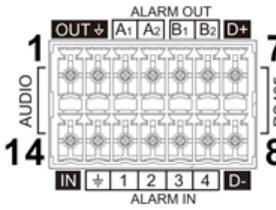
Following are an illustration and explanation of the connectors located on the PTZ camera's connector panel.



Connector Locations
(CP-6302-31-I model shown; other models are similar)

Callout	Description/Label	Comments
1	LAN	RJ45 connector for 10/100 Mbps Network and PoE++/UPOE (IEEE 802.3bt) connections.
2	AC24V / DC30V IN	Three-pin power connector (if using a 24VAC / 30VDC power supply or a heater). See pin assignment below.
3	DEFAULT	Factory default reset button. Press the button for at least 20 seconds to restore factory defaults.
4	AUDIO/ALARM OUT/ALARM IN/ RS485	14-pin terminal block for I/O and RS-485 connections. See pin assignment below.
5	VIDEO	BNC connector for analog video output.
6	SD card slot	To locally store snapshots or video recordings triggered by events, insert an SD card or a microSDXC card (up to 1TB, Class 10) with adapter (not supplied).  Do not remove the card when the camera is powered on. It is not recommended to record 24/7 continuously. Refer to the card manufacturer for card stability and life expectancy.

Power Connector	Pin	24VAC	30VDC
	1	L (Live; white; positive)	Pins 1 and 3 (polarity N/A)
	2	Ground (Earth)	
	3	N (Neutral; black; negative)	

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

4.2.1 Connecting Power to the Camera

This product is intended to be used with a Listed Power Adapter with LPS. The camera is powered by PoE+ (IEEE802.3at, class 4, CP-6302-31-P and CP-6302-30-R only), UPOE (CP-6302-31-I, CP-6302-31-P, and CP-6302-30-R), 24VAC, or 30VDC power source (not included in the package).

- If using an external power supply, connect the power leads or three-pin power terminal block to the power supply.
- If using PoE++ or UPOE, make sure that a Power Sourcing Equipment (PSE) device is used in the network.
- If connecting to a UPoE-capable network switch, use Teledyne FLIR-recommended unit otherwise check with support.

Make sure the camera's power cable is properly connected. All electrical work must be performed in accordance with local regulatory requirements.



CP-6302-31-I

Caution:

1. If the camera is connected to a PoE network, note that the PoE supply's rated output is 55VDC, 0.91A.
2. If the camera is installed for outdoor use, the PoE supply must be installed with proper weatherproofing.
3. As a Listed Power Unit, the PoE should be marked as "LPS" or "Limited Power Source".
4. This product shall be installed by a qualified service person. Installation shall conform to all local codes.
5. If the camera is connected to a 30VDC power supply, the power rating is 4.17A
6. If the camera is connected to a 24VAC, 50-60Hz power supply, the power rating is 2.09A

Attention:

1. *Si la caméra est connectée à un réseau PoE, notez que la puissance nominale de l'alimentation PoE est 55VDC, 0.91A.*
2. *Si la caméra est installée pour une utilisation extérieure, l'alimentation PoE doit être installée avec l'étanchéisation appropriée.*
3. *Comme une unité d'alimentation «Listed», le PoE doit être marqué comme «LPS» ou «Limited Power Source».*
4. *Ce produit doit être installé par un technicien qualifié. L'installation doit se conformer à tous les codes locaux.*
5. *Si la caméra est connecté à une unité d'alimentation 30V cc, la puissance nominale est 4.17A.*
6. *Si la caméra est connecté à une unité d'alimentation 24V ca, 50-60Hz la puissance nominale est 2.09A.*

For CP-6302-31-P:

Caution:

1. If the camera is connected to a PoE network, note that the PoE supply's rated output is 55VDC, 0.39A.
2. If the camera is installed for outdoor use, the PoE supply must be installed with proper weatherproofing.
3. As a Listed Power Unit, the PoE should be marked as "LPS" or "Limited Power Source".
4. This product shall be installed by a qualified service person. Installation shall conform to all local codes.
5. If the camera is connected to a 30VDC power supply, the power rating is 1.62A.



6. If the camera is connected to a 24VAC, 50-60Hz power supply, the power rating is 0.67A.

Attention:

1. *Si la caméra est connectée à un réseau PoE, notez que la puissance nominale de l'alimentation PoE est 55VDC, 0.39A.*
2. *Si la caméra est installée pour une utilisation extérieure, l'alimentation PoE doit être installé avec l'étanchéisation appropriée.*
3. *Comme une unité d'alimentation «Listed», le PoE doit être marqué comme «LPS» ou «Limited Power Source».*
4. *Ce produit doit être installé par un technicien qualifié. L'installation doit se conformer à tous les codes locaux.*
5. *Si la caméra est connecté à une unité d'alimentation 30V cc, la puissance nominale est 1.62A.*
6. *Si la caméra est connecté à une unité d'alimentation 24V ca,50-60Hz la puissance nominale est 0.67A.*

For CP-6302-30-R:

Caution:

1. If the camera is connected to a PoE network, note that the PoE supply's rated output is 55VDC, 0.24A.
2. As a Listed Power Unit, the PoE should be marked as "LPS" or "Limited Power Source".
3. This product shall be installed by a qualified service person. Installation shall conform to all local codes.
4. If the camera is connected to a 30VDC power supply, the power rating is 0.91A.
5. If the camera is connected to a 24VAC, 50-60Hz power supply, the power rating is 0.38A.

Attention:

1. *Si la caméra est connectée à un réseau PoE, notez que la puissance nominale de l'alimentation PoE est 55VDC, 0.24A.*
2. *Comme une unité d'alimentation «Listed», le PoE doit être marqué comme «LPS» ou «Limited Power Source».*
3. *Ce produit doit être installé par un technicien qualifié. L'installation doit se conformer à tous les codes locaux.*
4. *Si la caméra est connecté à une unité d'alimentation 30V cc, la puissance nominale est 0.91A.*
5. *Si la caméra est connecté à une unité d'alimentation 24V ca,50-60Hz la puissance nominale est 0.38A.*



Note:

An ITE PoE injector should be connected only to a PoE network inside a building and not routed outside the building.

**Warning:**

1. 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 manufacturer's instructions, local codes, or WEEE standards. Replacement of the battery by the customer will void the product warranty.

Avertissement:

1. Ce produit contient une batterie soudée à la PCB. Il y a un risque d'explosion si la batterie est remplacée par un type incorrect. **Ne pas remplacer la batterie.** La batterie doit être éliminée conformément aux instructions du fabricant, aux codes locaux, ou aux normes WEEE. Le remplacement de la batterie par le client annulera la garantie du produit.

4.2.2 Connecting the Unit to the Network

A Cat 5 or Cat 6 Ethernet cable is recommended for network connection. To ensure transmission quality, cable length should not exceed 100 meters (328 feet). Connect one end of the Ethernet cable to the RJ45 connector of the system cable. Plug the other end of the cable into the network switch or PC. Check the status of the link and the activity LEDs. If the LEDs are unlit, check the LAN connection.



A steady green link LED indicates a good network connection.
The yellow activity LED flashes to indicate network activity.

**Note:**

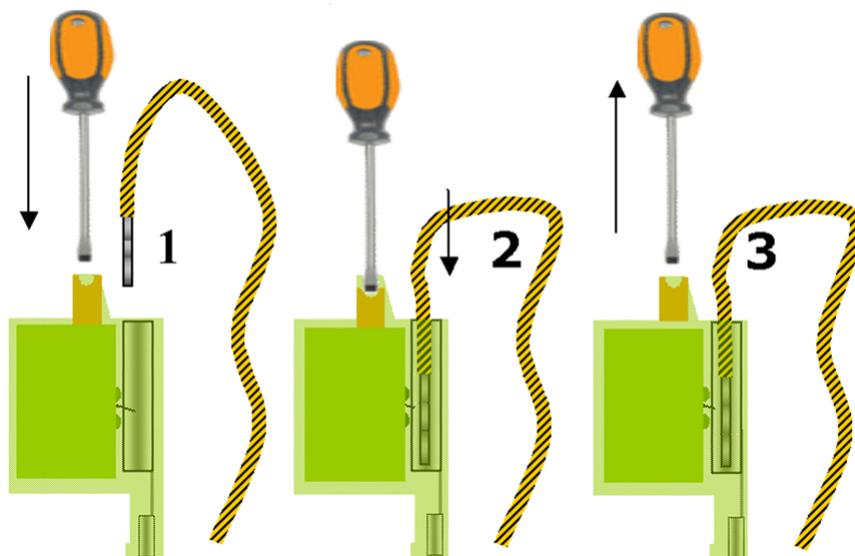
An Ethernet crossover cable might be needed when connecting the camera directly to the PC.

4.2.3 Connecting Leads to a Spring Clamp Terminal Block

The unit is delivered with 2-pin, 3-pin, and 14-pin terminal block connectors. The connectors enable you to connect wires for either the relay output or alarm input and then connect them to the unit.

To connect a wire to the spring clamp terminal block

1. Strip the insulation from the end of each wire that is to be connected to the terminal block. Approximately 1 cm (2.54") of wire should be exposed.
2. With a small screwdriver, press in and hold the orange spring clamp button next to the female outlet where the wire will be inserted.
3. Insert the stripped end of the wire into the female outlet.
4. Release the orange spring clamp button.



Connecting a Wire to a Terminal Block

4.3 Using DNA to Access the Camera

To view and configure the camera via a LAN, you must attach the camera via the network switch or router to the same subnet (network segment or VLAN) as the computer that manages the unit. If the PC is on a different subnet than the camera, you will not be able to access the camera via a web browser.

If there is a DHCP server on the network, it is recommended to use the FLIR Discovery Network Assistant (DNA) utility to search for and change the camera's initial IP address.

DNA is a user-friendly utility that is designed to easily discover and configure FLIR Security edge devices on a network. The DNA tool has a simple user interface and does not require any installation. The software is provided as a single, standalone executable. It runs on any PC.

DNA provides a central location for listing all the supported FLIR Security camera models accessible over the network. Once listed, each camera can be right-clicked to access and change the network settings. If the network settings are changed for some reason, a new search will relist the units. The units may then be configured via the web interface.

If FLIR Latitude VMS is being used, configure the unit with a static IP address rather than with DHCP. This ensures that the IP address will not automatically change in the future and interfere with configurations and communication.

The camera must be made accessible for setting network addresses.



Note:

For detailed guidelines about DNA and its usage, refer to the *DNA User Manual*, which can be accessed from the link [Accessing Camera Information from the Web](#).

4.4 Initial Camera Configuration



Notes:

- The camera can be connected to a PC for bench installation via an Ethernet cross-cable, or it can be connected to the network on the same VLAN/LAN as the workstation.
- By default, the camera's initial IP address is automatically set by the DHCP server. If using Latitude, the IP address must be set manually.



Tip:

A camera setup adapter, such as Veracity Pinpoint, can be used to connect a laptop directly to the camera when using PoE++.

To perform the initial camera configuration

1. Unpack the camera. Rotate and remove the protective cover.
2. Remove the PE cloth sheet and lens cap. Attach the dome cover to the body.
3. On the camera back plate, plug a Cat 5 cable into the camera's Ethernet port. If the network does not use IEEE 802.3bt PoE++ or UPOE, plug a properly rated 24VAC power supply into the camera's power connector terminal block.



Caution:

Make sure that the power supply connection matches the positive and negative polarity on the unit.

Attention:

Assurez-vous que le branchement à l'alimentation corresponde aux polarités positive et négative sur l'unité.

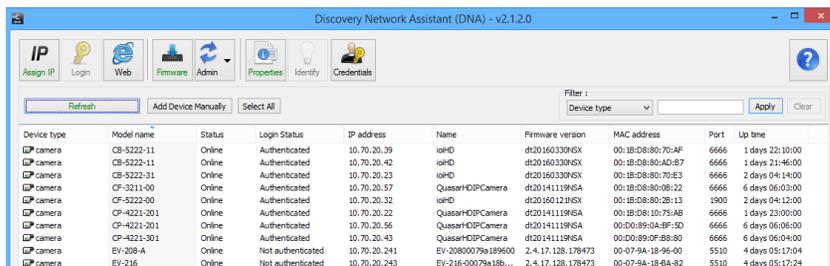
4. Verify that the LEDs on the RJ45 connector illuminate green (indicating a stable network connection) and flashing yellow (to indicate network activity).
5. Download and run the DNA utility. Click `dna.exe` or the  icon. For information about downloading and using DNA, see [Using DNA to Access the Camera](#) and [Accessing Product Information from the Teledyne FLIR Website](#).

If the Windows Firewall is enabled, a security alert window pops up. To continue, click **Allow Access**. Latitude users should consult the Latitude installation instructions on disabling the Windows Firewall.



Windows Firewall Screen

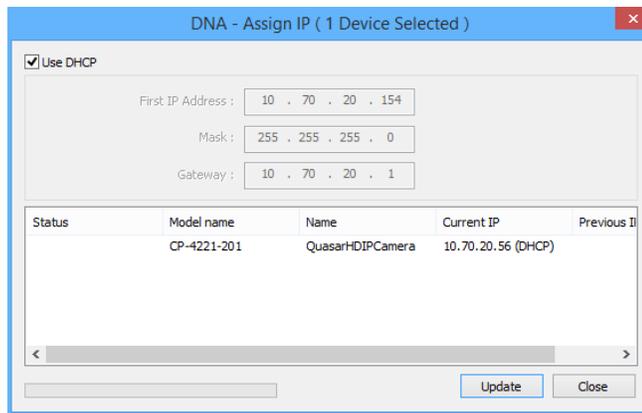
- In the DNA Discovery List, discovered IP devices appear. If a DHCP server exists on the network, it automatically assigns the camera its initial IP address. Otherwise, the camera's default IP address appears.



Discovered IP Devices

Tip:
Record the camera's MAC address for future reference.

- Right-click the camera and from the context menu that opens, select **Assign IP**. The **Assign IP** window appears.



Assign IP Window – Use DHCP Selected

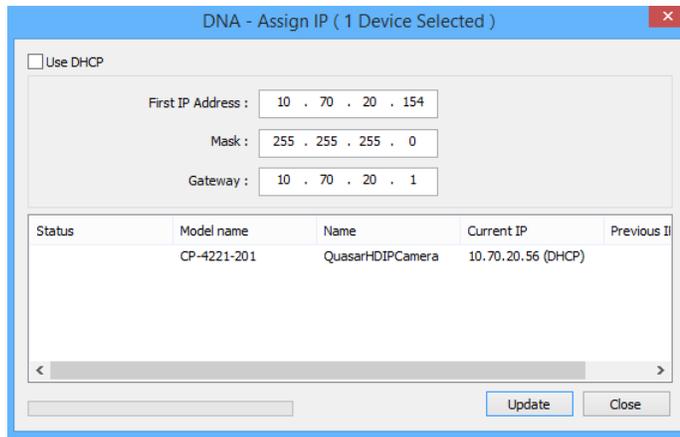
- Do one of the following:

- a. For DHCP (not supported by Latitude):
 - i. Select *Use DHCP*.

 **Caution!**

Do NOT use this setting on Latitude.

- ii. Click **Update** and wait for status.
- b. For Static IP (recommended for Latitude users):
 - i. Make sure *Use DHCP* is not selected.
 - ii. Enter the camera's IP Address, Gateway, and Netmask. If you are not sure of this network information, contact your network's administrator.



Assign IP Window – Static IP Addressing

- iii. Click **Update** and wait for  **OK** status to be displayed.
- 9. Disconnect the Ethernet cable. The camera is ready for deployment (mounting) in a site installation.

4.5 Fit Mounting Hardware

Install the mounting hardware for the camera according to the instructions for the hardware. (Not relevant for CP-6302-30-R model.)

Teledyne FLIR offers the following mounting accessories and adapters for CP-6302-31-P and CP-6302-31-I cameras:

Part number / item code	Description and notes	Images (not to scale)
CX-GSNK-G32 CX-GSNK-G32-B	Gooseneck mount kit (1.5" PF inner threaded) Dimensions CX-GSNK-G32 \varnothing 113 x 838 (L) x 450 (W) mm CX-GSNK-G32-B 220 (L) x 125 (W) x 47.5 (H) mm Color White	

Part number / item code	Description and notes	Images (not to scale)
CX-DRP-G32-B	Ceiling mount kit (1.5" PF inner threaded) Dimensions ∅ 165 x 257.5 mm Color White	
CX-PIPE-G325	50cm long extender pipe (1.5" PF outer & inner threaded) Dimensions ∅ 54 X 520 mm Color White	<i>Image not available</i>
CX-ARMX-G3	Wall mount bracket (1.5" PF inner threaded) Dimensions 250 (L) x 140 (W) x 228(H) mm Color White Shipping box size 31 x 77 x 48 cm Shipping box weight 13.65 kg	
CX-ELBX-G3	Wall mount bracket (1.5" PF inner threaded) with IP68 electrical box enclosure Dimensions 316 (L) x 185 (W) x 228(H) mm Color White Shipping box size 45.5 x 32 x 47 cm Shipping box weight 13.4 kg	
CX-GSNK-G3	Gooseneck mount (1.5" PF inner threaded) with IP68 electrical box enclosure Dimensions 491 x 256 x 1084 mm Color White Shipping box size 90 x 57 x 20 cm Shipping box weight 14.55 kg	
CX-CRNR-G3	90-degree exterior angle corner adapter for CX-xxxx-G3 mounts Dimensions 400 (L) x 242 (D) x 200(H) mm Color White Shipping box size 45 x 40.5 x 42 cm Shipping box weight 29.01 kg	
CX-POLE-G3	Pole adapter for CX-xxxx-G3 mounts, including straps for pole diameter ∅ 2.5-8.5" Dimensions 240 (L) x 161(w) x 72.5 (D) mm Color White Shipping box size 37 x 26.5 x 37.5 cm Shipping box weight 17.8 kg	

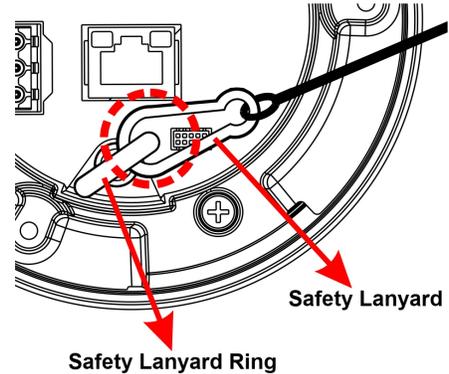
 **Important**

Regardless of how you mount the camera, it needs to be horizontally mounted to ensure that it pans parallel to the horizon.

4.6 Secure the Camera

To prevent a CP-6302-31-P PTZ or a CP-6302-31-I IR PTZ camera from falling, you need to secure it using a safety lanyard.

1. Before attaching the mounting accessory to the mounting surface, attach the safety lanyard to a secure anchor point on the mounting surface or on the accessory.
2. Attach the lanyard to the safety ring on the camera.
3. Route the power, Ethernet, and other cables through the mounting accessory and attach the mounting accessory to the mounting surface.
4. Route the power, Ethernet, and other cables through the pendant cap and attach the pendant cap to the mounting accessory.
5. Connect the cables to the camera.
6. Carefully insert the camera into the pendant cap and rotate the camera until it locks into place (1/3 turn).



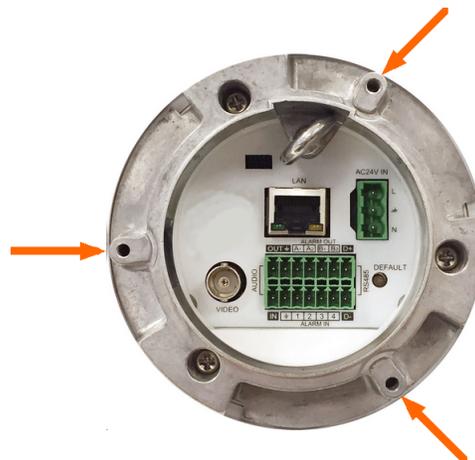
Warning

The metal locking mechanism carries the weight of the camera. If the camera is not locked into place, it could become loose and fall.

The screw that attaches the pendant cap to the camera needs to line up with one of the corresponding screw holes on the camera.



Pendant Cap Screw



Pendant Cap Screw Holes on Camera

7. Securely tighten the pendant cap screw into the camera. The screw prevents the camera from rotating.
8. Try to rotate the camera and make sure it is not possible to rotate the camera.

Warning

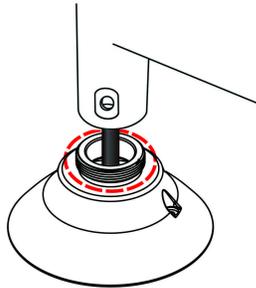
If the camera can be rotated, it could become loose and fall.

4.7 Waterproof the Camera

The camera is IP66-rated to prevent water from entering the camera. Nevertheless, water can enter the camera if it is not installed properly. Please make sure the warnings below are strictly followed when installing the camera.

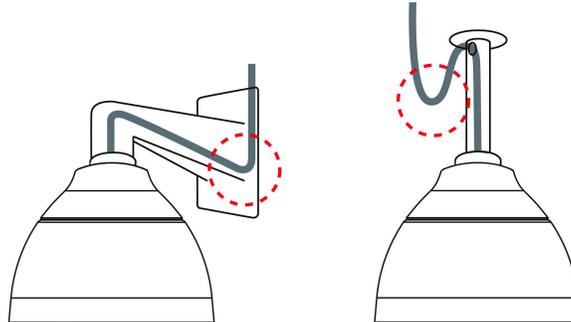
1. Place all cables and the adaptor in dry and well-waterproofed environments, e.g. waterproof boxes. This prevents moisture accumulation inside the camera and moisture penetration into cables.

2. Seal the cable entry hole of the pendant cap with the rubber O-ring (supplied with the camera) and use thread seal tape to keep water from entering the camera.



3. While running cables, slightly bend the cables in a U-shaped curve to create a low point. This prevents water from entering the camera along the cables from above.

Waterproofing the Pendant Cap



U-Shaped Cable Installation

4.8 Mounting a CP-6302-30-R Camera

You can mount the CP-6302-30-R camera in a ceiling.

Items Needed:

- CP-6302-30-R Network PTZ Camera
- Power Cable (necessary if PSE is not available)
- Ethernet Cable

Tools Needed:

- Circle Cutter
- Crosshead Screw Driver (Thread size: M4)

To mount the camera:

Step 1:

Make a 192mm cut in the ceiling.

Step 2:

Remove the dome cover by turning the dome cover counter-clockwise.



Step 3:

Put the Ethernet cable through the ceiling opening. Connect the Ethernet cable to the camera.

For the power, alarm & audio I/O connectors, please refer to the Connectors section in the User Guide for further details.

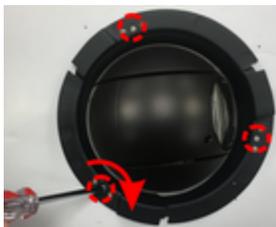


Align and position the camera in the ceiling opening.

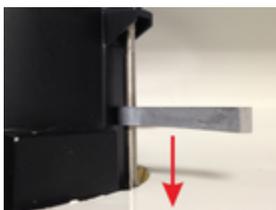


Step 4:

Fix the PTZ camera by fastening the three screws clockwise.



When tightening the three screws, the ceiling clamps will close towards the ceiling board. Please make sure the clamp is completely flush with the ceiling board.



Step 5:

Put back and tighten the dome cover back clockwise to complete the installation.



4.9 Configure the Camera

After the camera is connected to the network and running, it is necessary to frame-up the scene and adjust the camera settings to optimize the picture for the individual scenes.

For information about how to configure these and other camera settings, see the *CP-6302 Range User Guide*.



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Document:
Quasar Gen III CP-6302 Range Installation Manual
Version: Ver. 6
Date: May 2022