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.
# Quasar CP-6302 Range Installation Manual - Ver. 3 - June 25, 2020

This document does not contain any export-controlled information.

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# 1 Document Scope and Purpose

The purpose of this document is to provide instructions and installation procedures for physically mounting CP-6302 Range cameras. After completing the physical installation, additional setup and configuration is required before the camera can 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 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.

FLIR Systems, Inc. and its agents make no guarantees or warranties to the suitability for the users' intended use. FLIR Systems, Inc. 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 FLIR and its agents from any resulting liability.

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

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Il incombe aux utilisateurs des produits 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.

FLIR Systems, Inc. et ses agents ne garantissent d'aucune façon que les produits sont adaptés à l'usage auquel l'utilisateur les destine. FLIR Systems, Inc. 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 dégagera FLIR Systems, Inc. et ses agents de toute responsabilité en résultant.

Les spécifications et informations contenues dans ce guide sont sujettes à modification sans préavis.
<table>
<thead>
<tr>
<th>Icon</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td><strong>Warning</strong> is a precautionary message that indicates a procedure or condition where there are potential hazards of personal injury or death. <em>Avertissement</em> est un message préventif indiquant qu'une procédure ou condition présente un risque potentiel de blessure ou de mort.</td>
</tr>
<tr>
<td>!</td>
<td><strong>Caution</strong> 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. <em>Attention</em> 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.</td>
</tr>
<tr>
<td>🔄</td>
<td><strong>Note</strong> is useful information to prevent problems, help with successful installation, or to provide additional understanding of the products and installation. <em>Une Remarque</em> est une information utile permettant d'éviter certains problèmes, d'effectuer une installation correcte ou de mieux comprendre les produits et l'installation.</td>
</tr>
<tr>
<td>🔄</td>
<td><strong>Tip</strong> is information and best practices that are useful or provide some benefit for installation and use of FLIR products. <em>Un Conseil</em> correspond à une information et aux bonnes pratiques utiles ou apportant un avantage supplémentaire pour l'installation et l'utilisation des produits FLIR.</td>
</tr>
</tbody>
</table>
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:

**Warning:**
- 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.

**Avertissement:**
- 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.
Warning:
- 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 23 newtons (23-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 indicated in the Technical Specifications section.

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 indiqué dans la section Spécifications Techniques.
## Installation

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

For outdoor installation, 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.

**Note:** The CP-6302-30-R Recessed model will normally be installed indoors. Normal installation standards should be applied.

### Related Documents

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

### 2.1 Waterproofing the Camera Cables

The cameras are 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.
2.2 Mounting the Camera

The following accessories and adapters are available for mounting the camera:

- Wall Mount Bracket CX-ARMX-G3
- Wall Mount Bracket with Power Box CX-ELBX-G3
- Gooseneck Mount with Power Box CX-GSNK-G3
- Corner Adapter CX-CRNR-G3
- Pole Adapter CX-POLE-G3

For the CP-6302-30-R PTZ recessed model, see In-Ceiling Mount.

2.2.1 Wall Mount Bracket CX-ARMX-G3

Wall mount bracket (1.5 inch threaded).

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall mount bracket</td>
<td>CX-ARMX-G3</td>
<td>1</td>
</tr>
<tr>
<td>Parts package</td>
<td>No. 3 Allen key</td>
<td>1</td>
</tr>
<tr>
<td>Sponge</td>
<td>Sponge</td>
<td>2</td>
</tr>
<tr>
<td>Quick install guide</td>
<td>Summarized below</td>
<td>1</td>
</tr>
</tbody>
</table>

Step 1

Place the smaller, green sponge inside the bracket and route the cables through the center of it, as shown. You might need to cut a slit in the sponge.

Step 2

Place the larger, black sponge inside the bracket, as shown. Route the cables through the pre-cut cross in the sponge.

Step 3

Route the cables through the bracket.
Step 4
Affix the bracket to the wall using the appropriate screws and screw anchors (not provided).

Step 5
Use the Allen key and a hex head cap screw to assemble and firmly affix the camera’s pendant cap to the bracket.

CX-ARMX-G3 dimensions
2.2.2 Wall Mount Bracket with Power Box CX-ELBX-G3

What's in the Box

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall mount bracket with power box</td>
<td>CX-ELBX-G3</td>
<td>1</td>
</tr>
<tr>
<td>Parts package</td>
<td>NO. 3 Allen Key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>NO. 5 Allen Key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Sponge</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Hex Head Cap screw M6 x 20 (stainless steel)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Cable gland</td>
<td>1</td>
</tr>
<tr>
<td>Quick Install Guide</td>
<td>(this document)</td>
<td>1</td>
</tr>
</tbody>
</table>

Step 1

Place the sponge inside the bracket and route the cables through the center of it, as shown. You might need to cut a slit in the sponge.

Step 2

Route the cables through the bracket.

Step 3

Follow camera instructions to assemble the pendant cap. Use the Allen key and a hex head cap screw to assemble and firmly affix the camera's pendant cap to the bracket.

Step 4

Affix the power box to the wall or to the column.

Step 5

Attach the bracket to the power box.

Step 6

Buckle up the safety rope, make the camera connections, tighten the two hex screws to seal the box, and then complete assembly.
2.2.3 Gooseneck Mount with Power Box CX-GSNK-G3

Gooseneck mount (1.5 inch threaded) with IP68 power box.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gooseneck bracket and power box</td>
<td>CX-GSNK-G3 box</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>CX-GSNK-G3 gooseneck pipe</td>
<td>1</td>
</tr>
<tr>
<td>Accessory box</td>
<td>No. 2 Allen key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>No. 3 Allen key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>No. 5 Allen key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>No. 6 Allen key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>M4x8 hex cap double washer</td>
<td>2</td>
</tr>
<tr>
<td>Quick install guide</td>
<td>Summarized below</td>
<td>1</td>
</tr>
</tbody>
</table>

**Step 1**
Fix backplate on mounting surface.

**Step 2**
Assemble power box and tighten screws with No. 6 Allen key.

**Step 3**
Assemble gooseneck pipe on backplate and power box.

**Step 4**
Attach pendant cap to gooseneck pipe, complete cable connections, and connect camera to pendant cap.

**Step 5**
Rotate gooseneck pipe to the position required. Tighten hexagon nuts to the flange and use No. 3 Allen key to tighten M4x8 hex socket screws.

**Step 6**
Use No. 6 Allen key to fix cover screws.
### 2.2.4 Mount Adapters

The following mount adapters are available for the camera:

- **Corner Adapter CX-CRNR-G3**
- **Pole Adapter CX-POLE-G3**

#### 2.2.4.1 Corner Adapter CX-CRNR-G3

90-degree exterior angle corner adapter for CX-xxxx-G3 mounts.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner mount adapter</td>
<td>CX-CRNR-G3</td>
<td>1</td>
</tr>
<tr>
<td>Accessory bag</td>
<td>Stainless steel truss head screw M8*25</td>
<td>4</td>
</tr>
<tr>
<td>Accessory bag</td>
<td>Stainless steel truss head screw M8*30</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>M8 washer</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>M8 screw nut</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>M8 spring washer</td>
<td>6</td>
</tr>
<tr>
<td>Quick install guide</td>
<td>Summarized below</td>
<td>1</td>
</tr>
</tbody>
</table>

![Diagram of Corner Adapter CX-CRNR-G3]

**Part 1**

**Part 2**
**Installation**

**Step 1**
Join parts 1 and 2 together.

**Step 2**
Tighten hex head cap screws (clockwise).

**Step 3**
Fix assembled corner adapter to the wall.

**Step 4**
- When using a wall mount bracket (pictured), affix the wall mount bracket onto the corner adapter with washers in the front and screw nuts at the back.
- When using a power box, affix the power box onto the corner adapter.

**CX-CRNR-G3 dimensions**
2.2.4.2 Pole Adapter CX-POLE-G3
Pole adapter for CX-xxx-G3 mounts, including 2.5-8.5 inch straps.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole mount adapter</td>
<td>CX-POLE-G3</td>
<td>1</td>
</tr>
<tr>
<td>8.5&quot; ring</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Accessory bag</td>
<td>Stainless steel truss head</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>screw M8*20</td>
<td></td>
</tr>
<tr>
<td>Accessory bag</td>
<td>Stainless steel truss head</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>screw M8*30</td>
<td></td>
</tr>
<tr>
<td>Accessory bag</td>
<td>M8 washer</td>
<td>4</td>
</tr>
<tr>
<td>Accessory bag</td>
<td>M8 screw nut</td>
<td>4</td>
</tr>
<tr>
<td>Accessory bag</td>
<td>M8 spring washer</td>
<td>4</td>
</tr>
<tr>
<td>Quick install guide</td>
<td>Summarized below</td>
<td>1</td>
</tr>
</tbody>
</table>

**Step 1**
- When using a wall mount bracket, affix the wall mount bracket onto the pole adapter.
- When using a power box, screw power box onto the pole adapter.

**Step 2**
Thread the hoops through the CX-POLE-G3.

**Step 3**
Fasten hoops tightly with flat-head screwdriver.

### 2.2.5 In-Ceiling Mount
The items and tools for in-ceiling installation are listed as follows.

**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)

Follow the steps to install CP-6302-30-R Network PTZ 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.