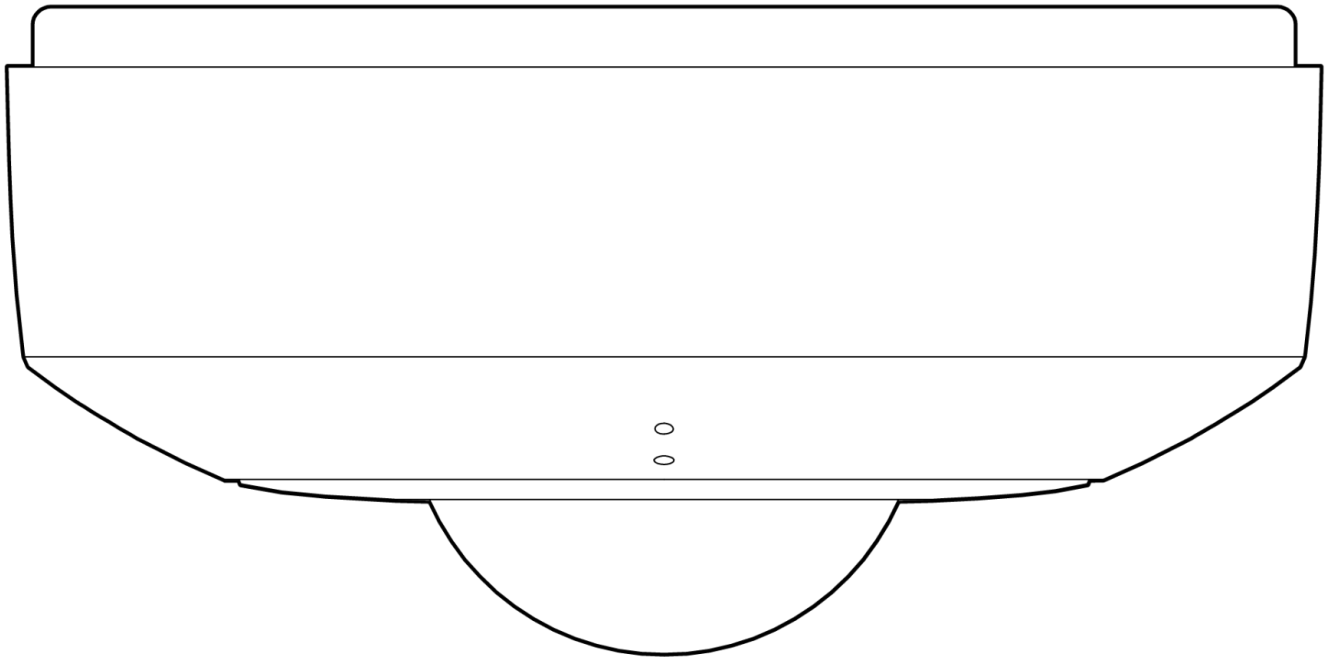


# CF83-E Outdoor Fisheye Camera



Document

## Document Details

### Version

**V1.4** 20251017

(V1.0 published 20240923)

### Product Models

This install guide pertains to models CF83-E-HW.



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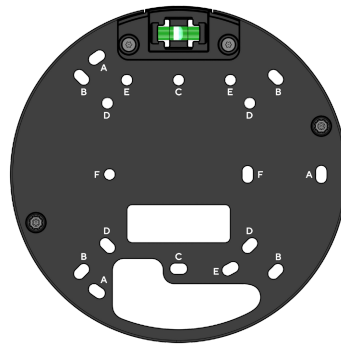
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## What's in the box 1/2



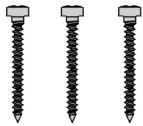
**Outdoor Fisheye Camera**



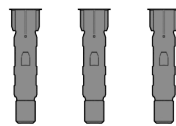
**Mount Plate**  
(Attached to camera)



**T10 Torx Security Screwdriver**



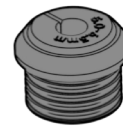
**Wall Screws** (3 pcs)  
Length: 25mm Diameter: 4mm  
Drive: #2 Phillips



**Wall Anchors** (3 pcs)



**Cable Gland** (1 pc)  
Size: 6.5-7.5mm



**Cable Gland** (1 pc)  
Size: 5.0-6.5mm  
(Attached to camera)



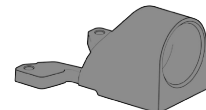
**Machine Screws** (2 pcs)  
Length: 50mm Drive: #2 Phillips



**Washers** (2 pcs)



**Wing Nuts** (2 pcs)



**Conduit Adapter**

## What you'll need

- A working internet connection
- 802.3af/802.3at PoE Power over Ethernet (PoE) switch or a PoE injector. For operation below -20° C, use 802.3at PoE.
- A smartphone or laptop
- A Phillips screwdriver or power drill with a Phillips driver bit
- ¼ inch (6.5mm) drill bit for wall anchors
- ⅛ inch (3mm) drill bit for pilot holes
- 3/16 inch (4.5mm) drill bit for machine screws
- Cat5-Cat8 Ethernet cable with a 0.2-0.3 inch outside diameter (5-7.5mm)

## Connect

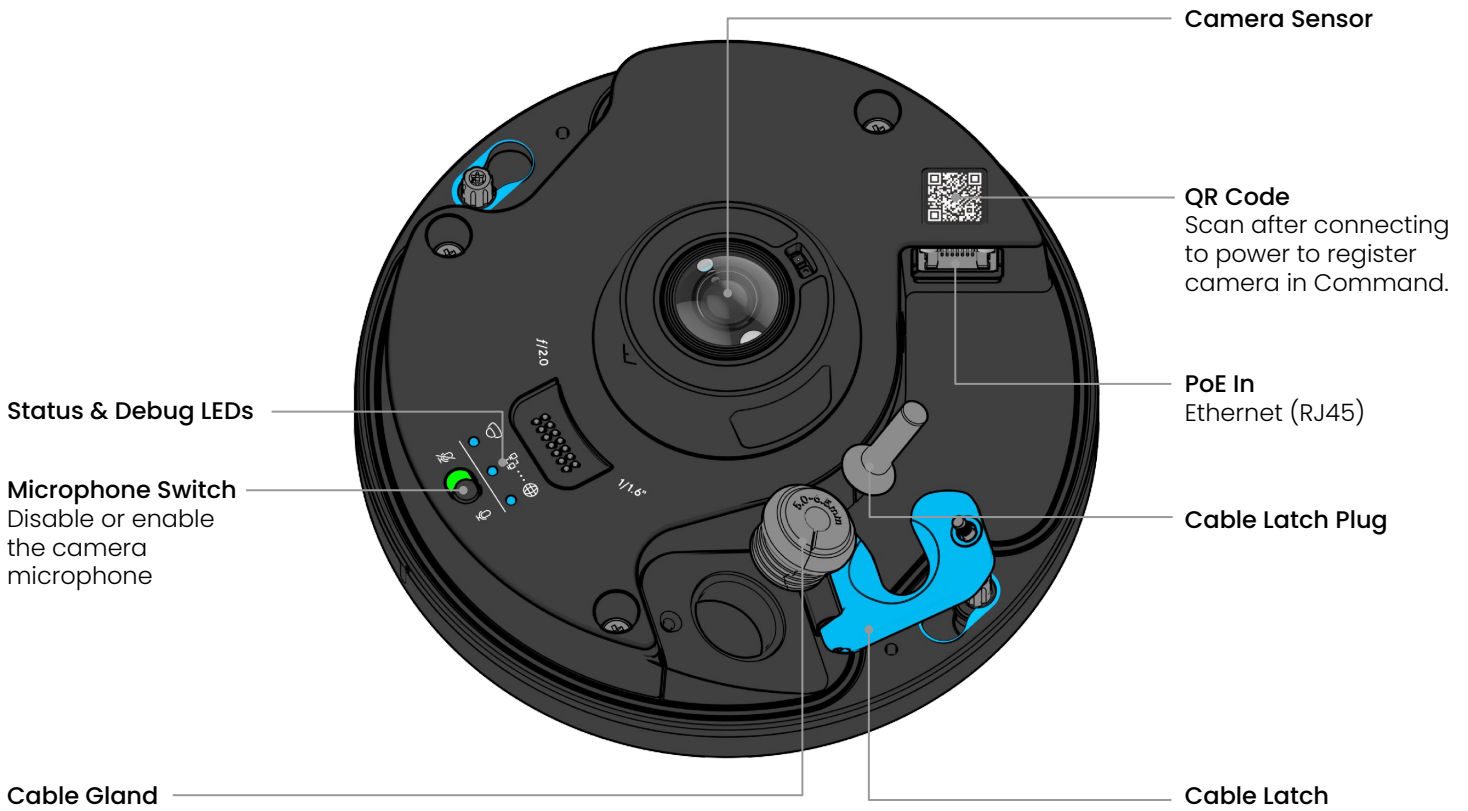
For easy registration and setup, scan the QR code on the product.

If you prefer to manually register your product, please proceed to:

[verkada.com/start](http://verkada.com/start)

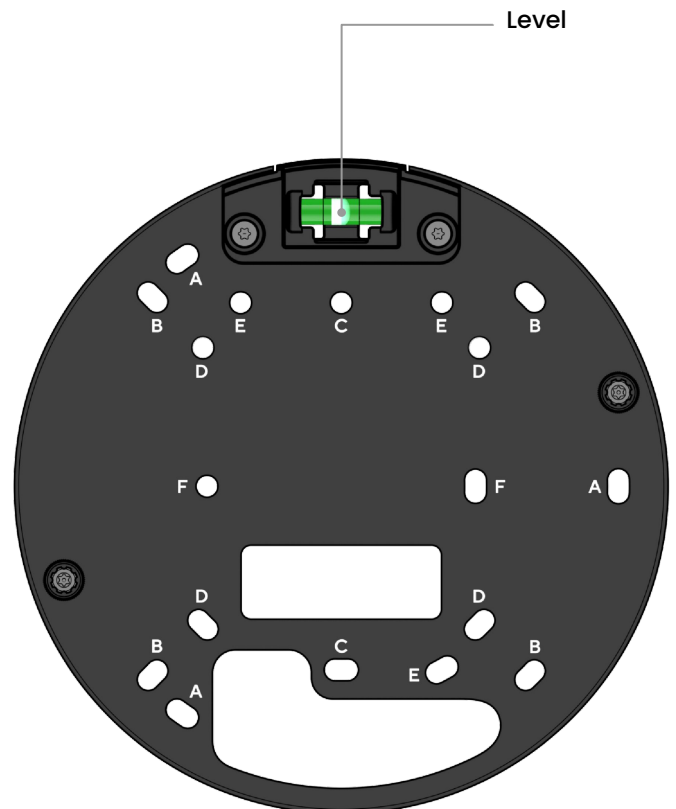


## Overview



## Mount Plate

- A Wall Mount
- B 4" Square Junction Box
- C Single Gang Junction Box
- D 3.5" Round Junction Box
- E Double Gang Junction Box
- F European Junction Box



## Introduction

### Microphone Switch

The microphone switch allows you to physically disconnect the microphone in the camera unit, guaranteeing that no audio will be recorded.

Camera Audio is enabled by default.

To disable Camera Audio, move the switch into the left position.

*Alternatively, Camera Audio can be disabled in your Command account.*

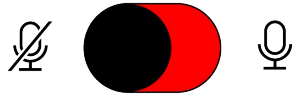


Microphone Switch

**Microphone Enabled**



**Microphone Disabled**

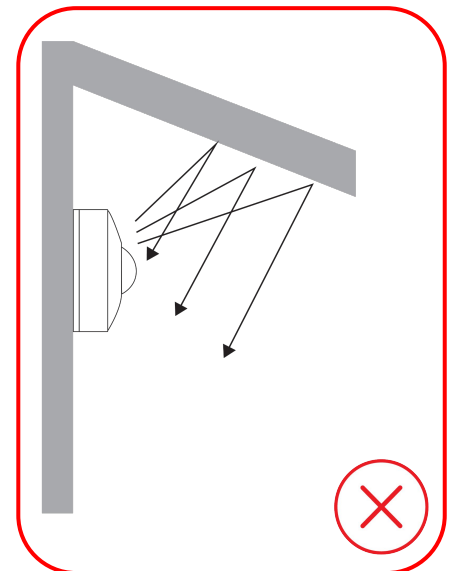
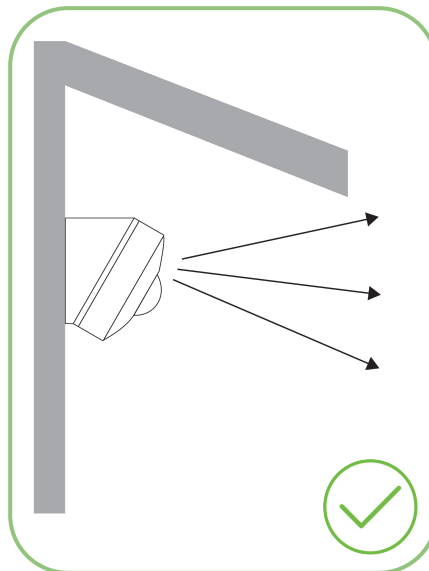


### Placement

Mount the camera on the wall or ceiling. Try to keep the camera 8 to 10 feet above the ground.

For best night vision, avoid overhangs or obstructions, which may reflect the camera's IR illumination and reduce the image clarity in night mode.

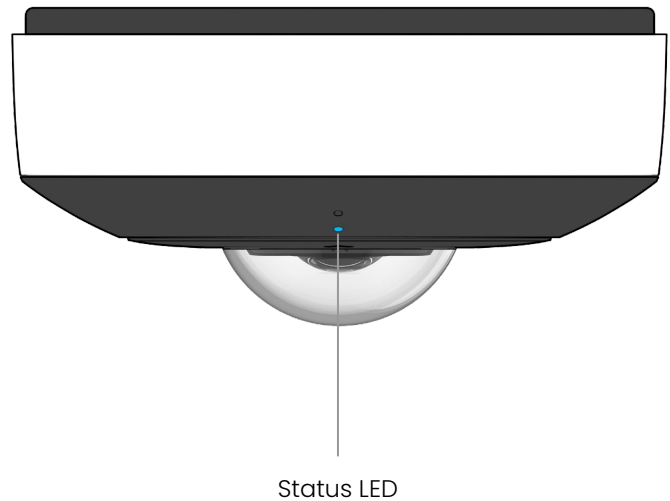
It is recommended to use an angle mount to optimize the camera's field of view and prevent reflections.



## Exterior LED Behavior

### General operation

- **Solid Blue**  
Camera is running, connected, and recording data.
- **Solid Orange**  
Camera is on and booting up.
- ☀ **Flashing Orange**  
Camera is updating firmware.
- ☀ **Flashing Red**  
Specific error, see "Network errors" below.
- **Solid Red**  
Contact support.



### Network errors

When the camera top cover is on, an error will be communicated through the outer Status LED, which will flash a specific number of times depending on the error state.

#### 1 Red - No IP Address

Camera has not received an IP address.

#### 2 Red - Duplicate IP

Camera has detected duplicate IP addresses on the LAN.

#### 3 Red - No Gateway

Camera is not able reach the configured Gateway.

#### 4 Red - No Switch

Camera is connected with PoE, but unable to connect to the Switch.



Example of **5 Red** flashes on Outer Status LED

#### 5 Red - DNS error

Camera is not able to resolve Verkada hostnames.

#### 6 Red - NTP Error

Camera is not able to receive a response from the NTP Server.

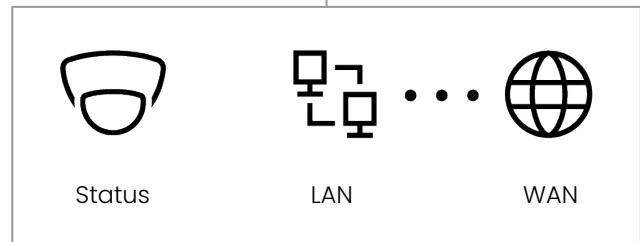
#### 7 Red - Not Connected to Command

Verkada endpoints are not reachable after boot up.

## Interior LED Behavior

### General operation

- **Solid Blue**  
Camera is running, connected, and recording data.
- **Solid Orange**  
Camera is on and booting up.
- ☀ **Flashing Orange**  
Camera is updating firmware.
- ☀ **Flashing Red**  
Specific error, see "Network errors" below.
- **Solid Red (x3)**  
Contact support



### Network errors (Interior 'Debug' LEDs)

When the camera top cover is removed, the specific error will be communicated locally on the LAN or WAN debug LED, while the device Status LED will show solid red.

#### LAN errors

##### 1 Red - No IP Address

Camera has not received an IP address.

##### 2 Red - Duplicate IP

Camera has detected duplicate IP addresses on the LAN.

##### 3 Red - No Gateway

Camera is not able reach the configured Gateway.

##### 4 Red - No Switch

Camera is connected with PoE, but unable to connect to the Switch.



Example of **2 Red** flashes on LAN Debug LED

#### WAN errors

##### 1 Red - DNS error

Camera is not able to resolve Verkada hostnames.

##### 2 Red - NTP Error

Camera is not able to receive a response from the NTP Server.

##### 3 Red - Not Connected to Command

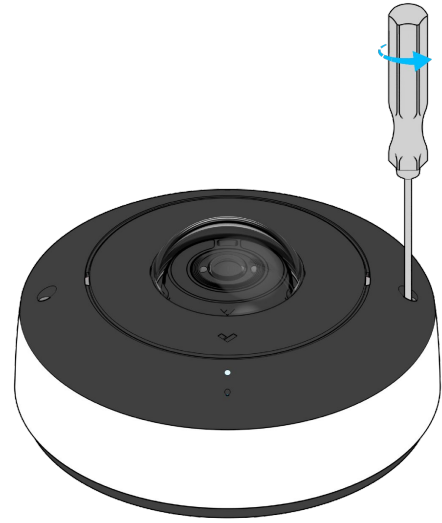
Verkada endpoints are not reachable after boot up.



## Installation

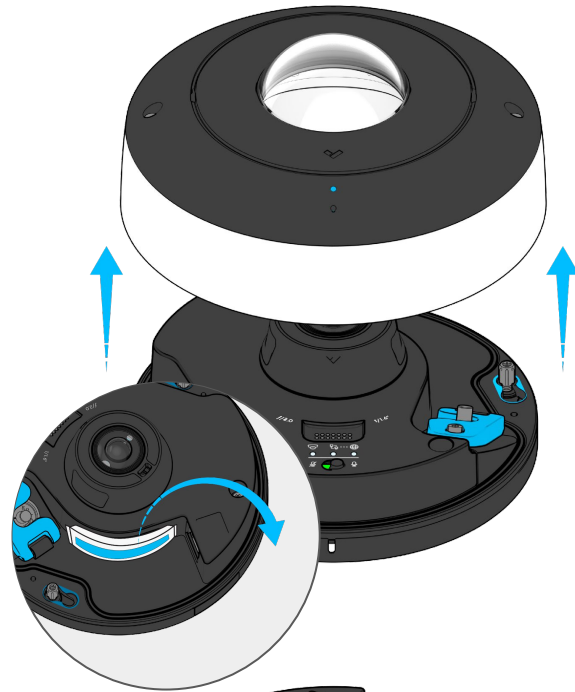
### Preparation 1/2

Use the provided T10 Torx security screwdriver to loosen the screws and lift the top cover of the camera.



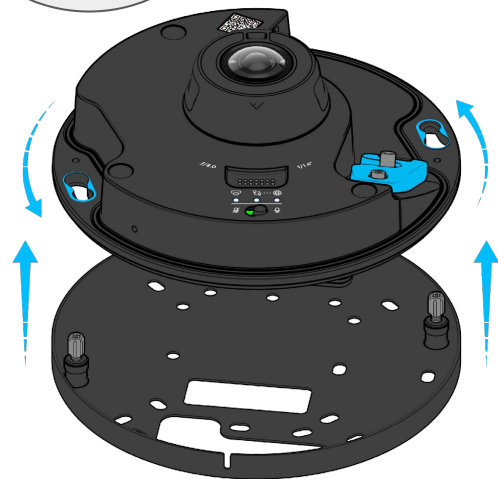
Lift the top cover off of the camera.

Remove and discard the desiccant on the camera.



To remove the mount plate, loosen the mount plate screws with the provided T10 Torx Security Screwdriver and twist the camera counter clockwise.

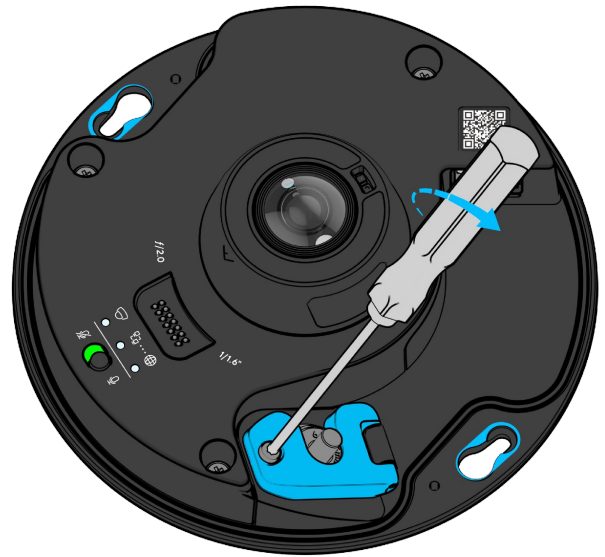
Lift the camera vertically off the mount plate and set aside.



## Installation

### Preparation 2/2

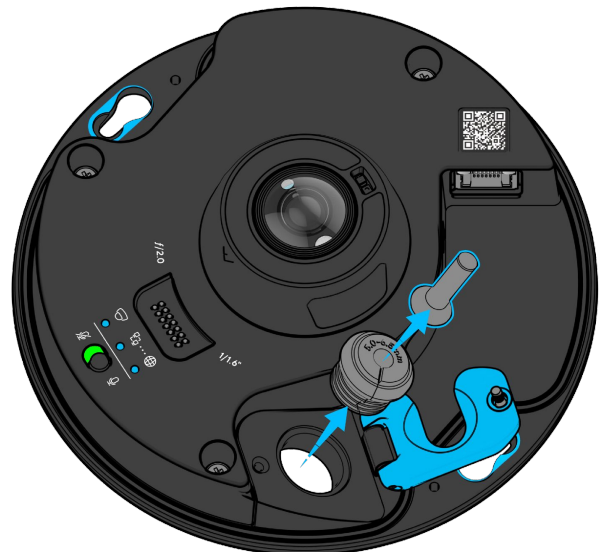
Use the T10 Security Screwdriver to unscrew the latch screw.



Open the latch.



Remove the cable gland and set it aside.



## Installation

### Mounting 1/5

Use the provided mounting plate to mark wall mount holes. For a junction box mount, use the mounting plate to determine the correct hole pattern.

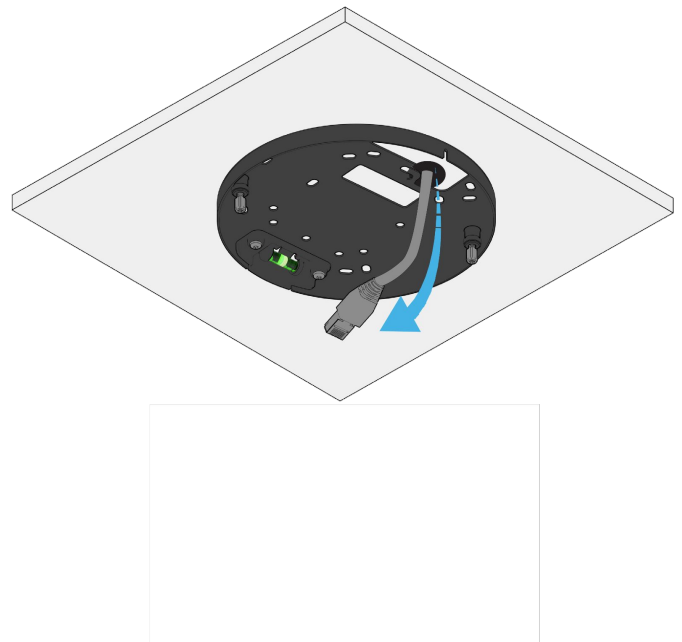
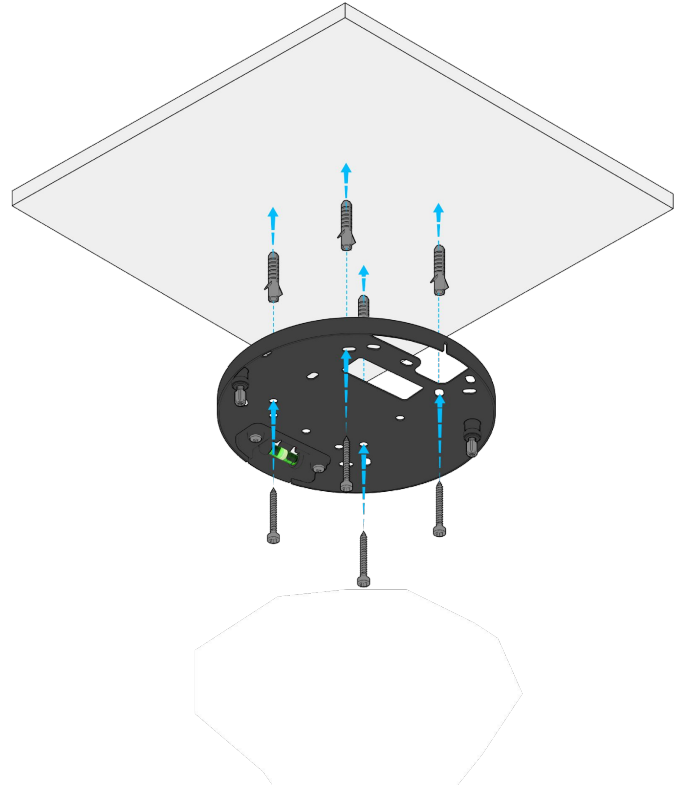
For a solid material like wood or metal, drill  $\frac{1}{8}$  inch pilot holes. Drive mounting screws directly into the pilot holes.

For drywall, drill  $\frac{1}{4}$  inch holes. Insert plastic anchors into holes and drive mounting screws into anchors.

*If mounting on a wall, the level built in to the mount plate can be utilized to establish a horizontal plane.*

*If you wish to add a grounding cable, please refer to the **Grounding**-section in this document.*

Pull the Ethernet cable through the appropriate hole.



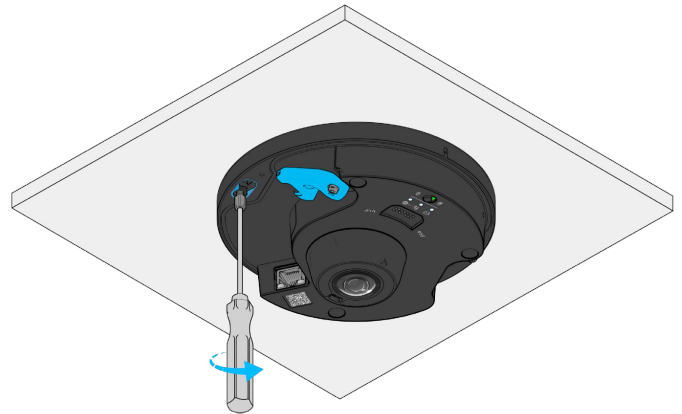
## Installation

### Mounting 2/5

Align the blue holes to the thumbscrews and rotate the camera clockwise.



Tighten the thumbscrews using the T10 Security Screwdriver to secure.



## Installation

### Mounting 3/5

Select the appropriate size cable gland and wrap it around the Ethernet cable.

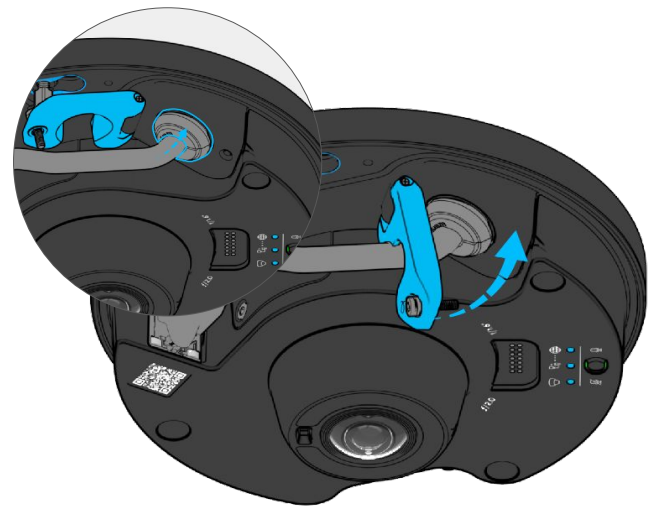
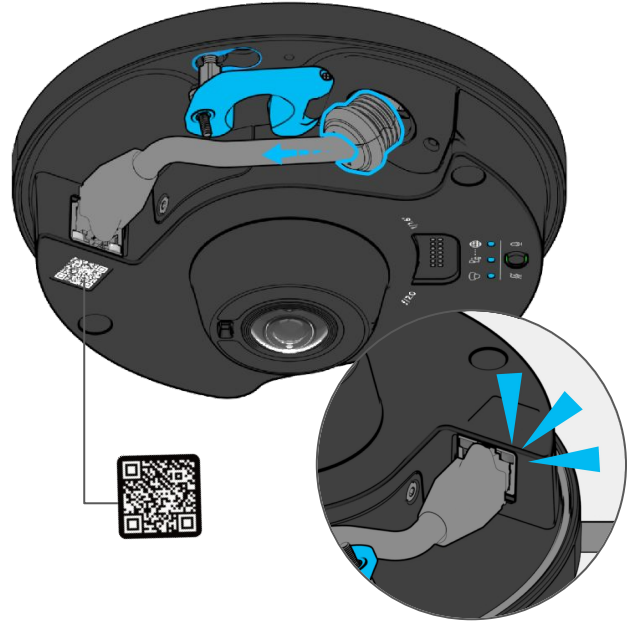
Connect the Ethernet cable to the camera.

Press the cable gland into cable gland hole.

**Make sure that there are no gaps or openings.**

Scan QR code to register on Verkada Command.

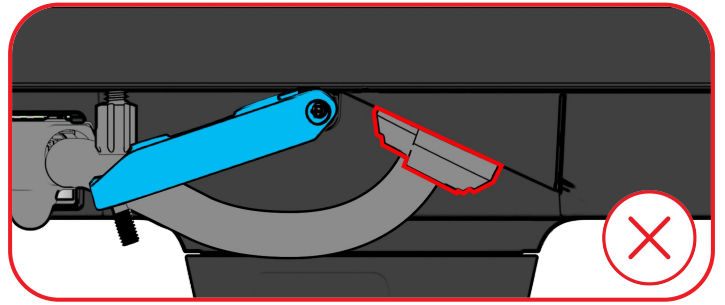
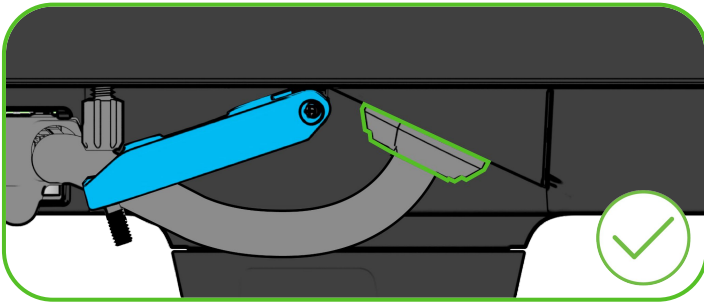
In case of cable slack, press the excess Ethernet cable into the cable gland.



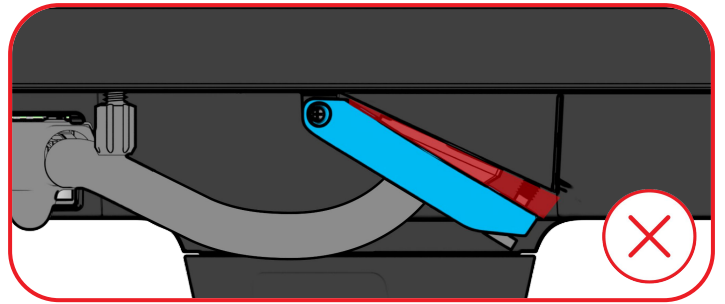
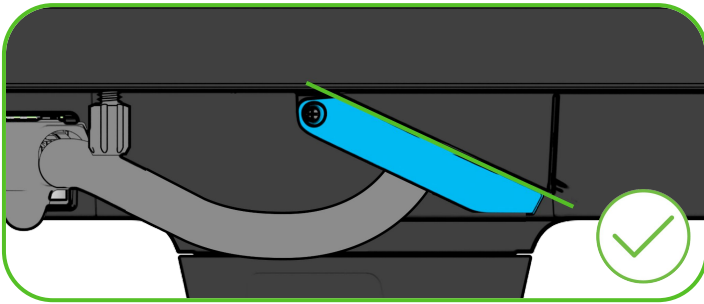
## Installation

### Mounting 4/5

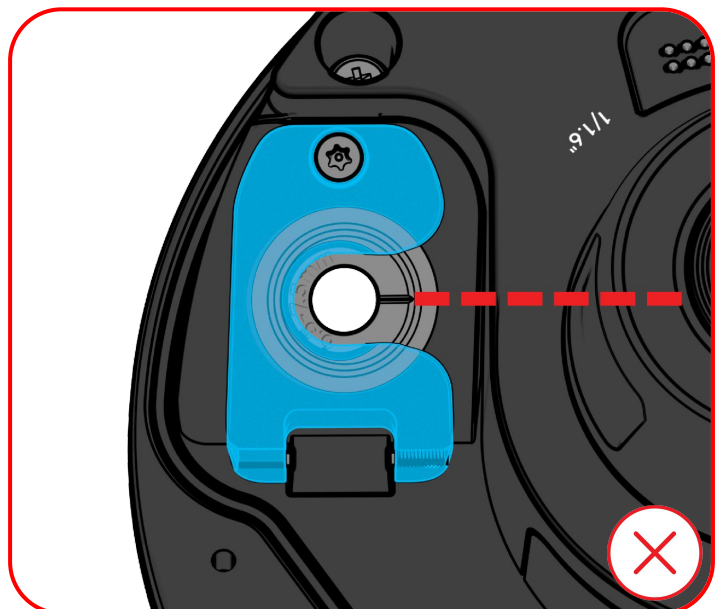
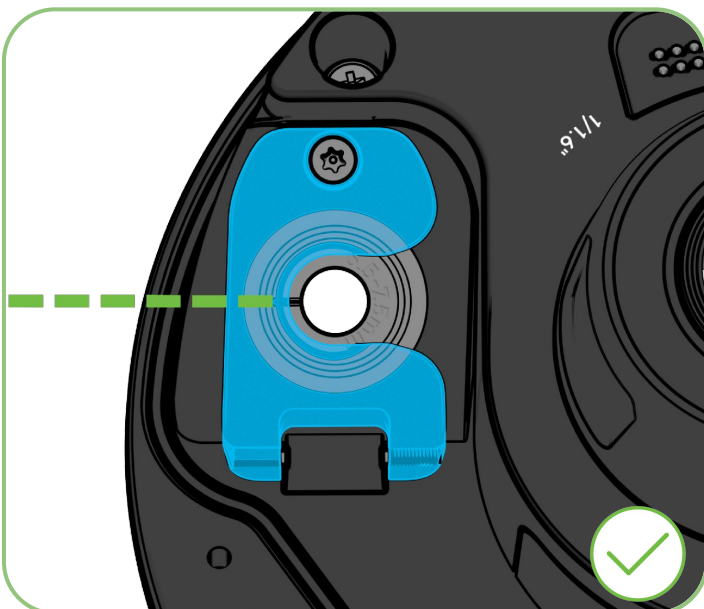
Ensure that the cable gland is firmly in place with no gaps or unevenness.



Ensure the latch is fully down and closed before tightening the security screw.



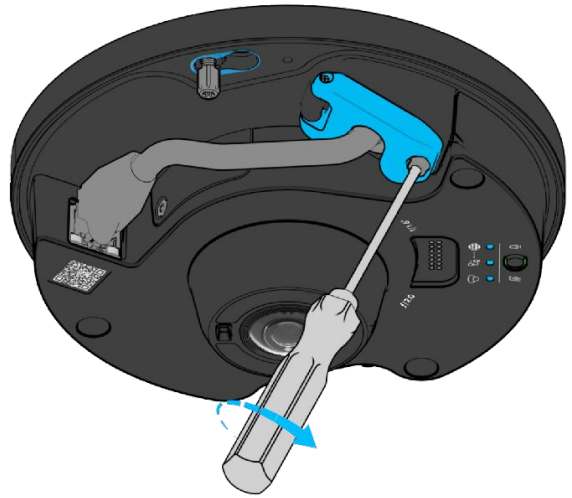
Make sure the slit in the grommet is positioned under the latch. Incorrect installation may result in water ingress that could damage the device.



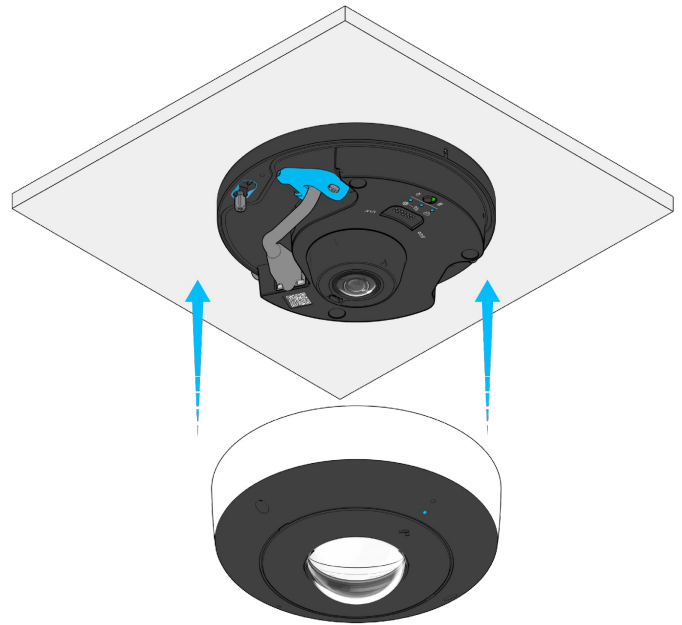
## Installation

### Mounting 5/5

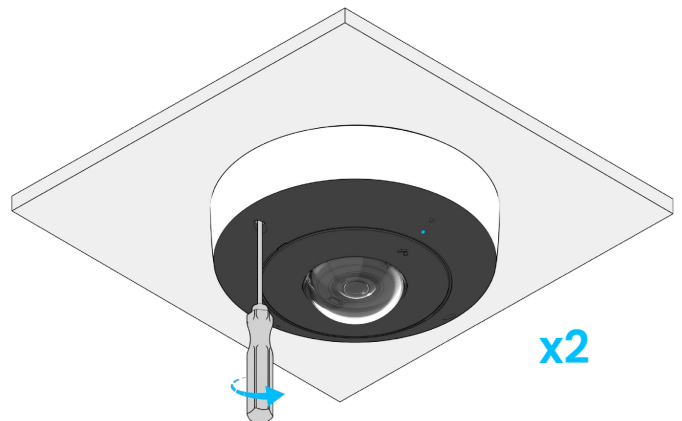
Close the latch and use the provided T10 Security Screwdriver to secure and seal the Ethernet cable.



Press the top cover onto the camera and hold it in place.



Secure the top cover using the provided T10 Torx Security Screwdriver.



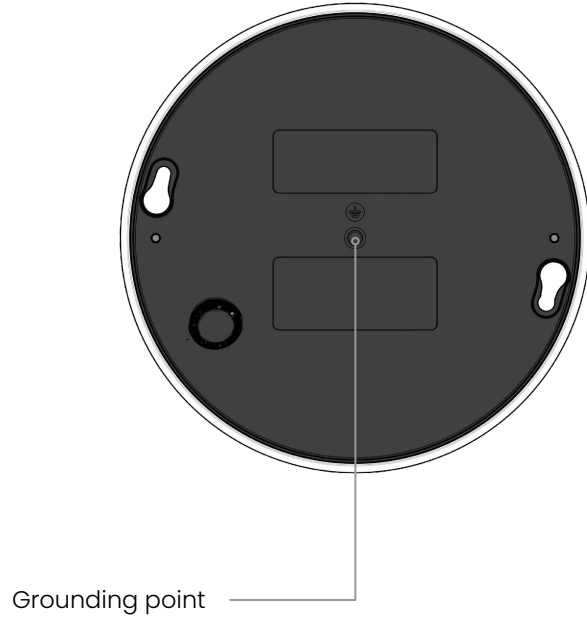
## Installation

### Grounding

In order to attach the ground cable to the camera, perform the following:  
Align a 20AWG or larger grounding cable with a ring terminal and drive an ¼"-20 x 0.25" screw (not included) through the terminal and into the threaded grounding point on the back of the device as shown on the right.

Attach the other terminal of a grounding cable directly to a circuit breaker, ground rod or earth ground.

**This unit is powered by PoE through a UL Listed ITE.**



## CF83-E Compliance

<p><b>Caution</b></p>	<ol style="list-style-type: none"> <li>1. Maintenance and repair work must always be carried out by qualified technical personnel. Disconnect power from the unit when performing a maintenance task.</li> <li>2. Wiring methods used for the connection of the equipment to earth shall be in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part 1, CSA C22.1.</li> <li>3. The product must be installed and protected in a location that is not easily accessible and is away from impacts or heavy vibration.</li> <li>4. The device is only to be connected to PoE networks without routing to outside plants.</li> <li>5. If powered by a power adapter, the adapter should be properly grounded.</li> <li>6. Please contact certified dealers for power adapters.</li> </ol>
<p><b>FCC Compliance</b></p>	<p>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:</p> <ul style="list-style-type: none"> <li>-Reorient or relocate the receiving antenna.</li> <li>-Increase the separation between the equipment and receiver.</li> <li>-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>-Consult the dealer or an experienced radio/TV technician for help.</li> </ul>
<p><b>ISED Compliance</b></p>	<p>This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.</p>
<p><b>South Africa Compliance</b></p>	<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>TE-2024/0329 APPROVED</p> </div> </div>

Appendix

## **Support**

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,  
The Verkada Team  
[verkada.com/support](https://verkada.com/support)

