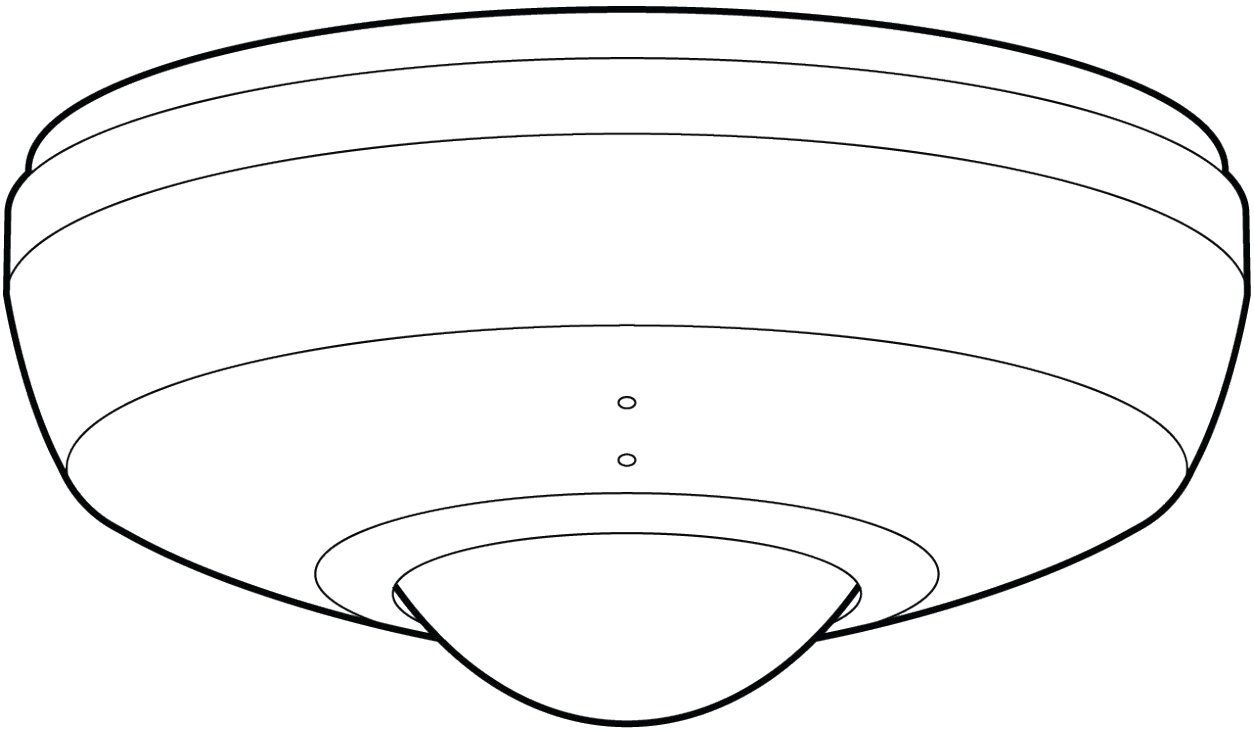
Install Guide

C**F81-E** Outdoor Fisheye Camera



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Document

Document Details

V1.2 (20230711)

(V1.0 first published 20230124)

Firmware

Firmware version can be verified on
Verkada Command command.verkada.com.

Product Models

This install guide pertains to model CF81-E-HW

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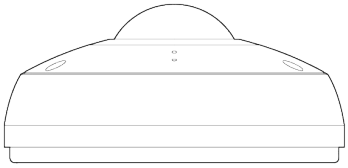
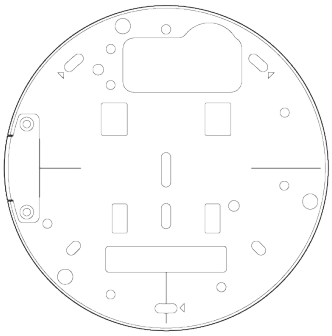
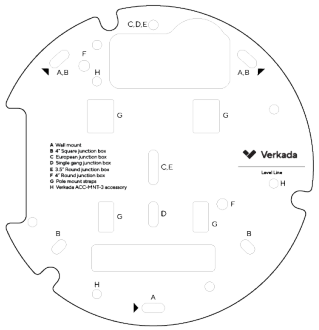
What's in the box



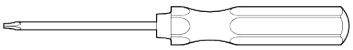
CF81 Outdoor Fisheye Camera



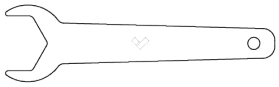
Mount plate
(Attached to camera)



Mounting template



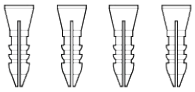
T10 Torx security screwdriver



22mm Cable gland wrench

Conduit adapter

4 Panhead M4 screws



4 Wall anchors

3 Machine screws

3 Wing nuts

3 Washers

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
- A Cat5 or Cat6 Ethernet cable with a 0.2-0.25 inch outside diameter (5-6.5mm)

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

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LED Behaviors

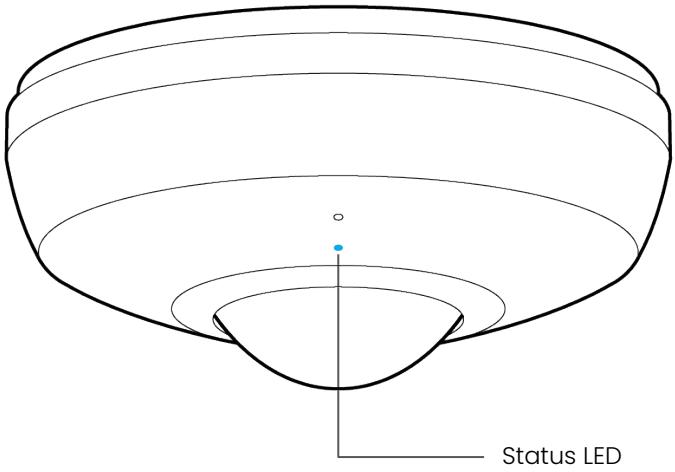
Regular operation

Solid Orange
Camera is on and booting up.

Flashing Orange
Camera is updating firmware.

Solid Blue
Camera is running, connected, and recording data.

Flashing Blue
Generic network error. Contact support.



Network errors

The LED will flash in a specific order, depending on the error state. You will see 1 blue flash, followed by a number of orange flashes.

Example of **1 Blue, 5 Orange** flash sequence

1 Blue, 1 Orange
Camera is connected with PoE, but unable to connect to the Switch.

1 Blue, 2 Orange
Camera has not received an IP address.

1 Blue, 3 Orange
Camera is not able reach the configured Gateway.

1 Blue, 4 Orange
Camera has detected duplicate IP addresses on the LAN.

1 Blue, 5 Orange
Camera is not able to resolve Verkada hostnames.

1 Blue, 6 Orange
Camera is not able to receive a response from the NTP Server.

1 Blue, 7 Orange
Camera is not able to certify the SSL connection, likely due to SSL inspection.

1 Blue, 8 Orange
Verkada endpoints are not reachable after boot up.

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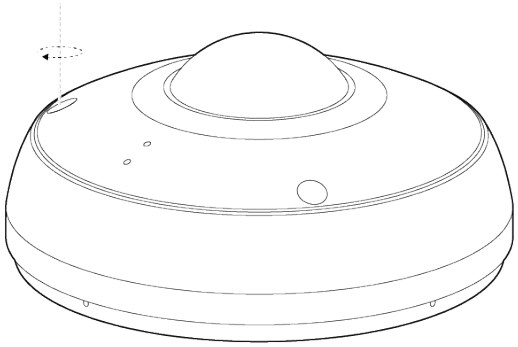
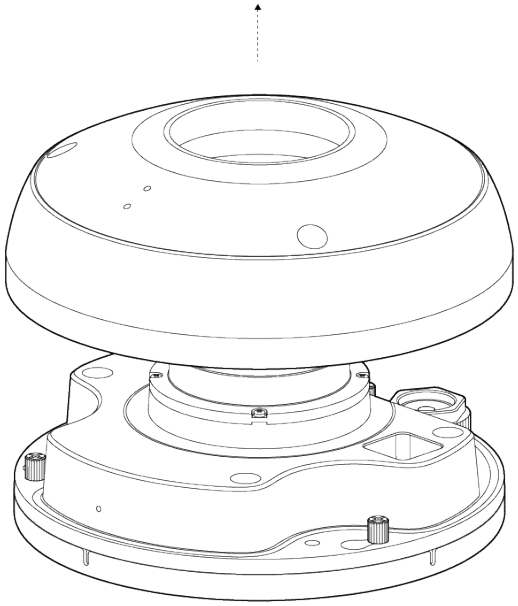
Connect

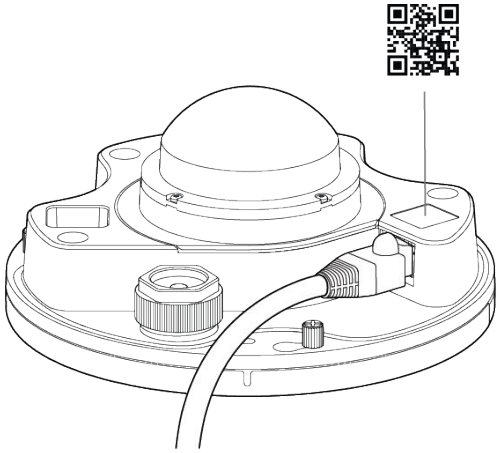
Use the provided T10 Torx security screwdriver to loosen the screws and lift the case of the camera.



Connect the camera to an 802.3af/at Power over Ethernet port on your network. An orange LED on the camera's Ethernet port will indicate that it is powered and booting up. A green LED on the Ethernet port will indicate the camera is active.



Scan the QR code for easy camera registration and setup, or proceed to verkada.com/start.



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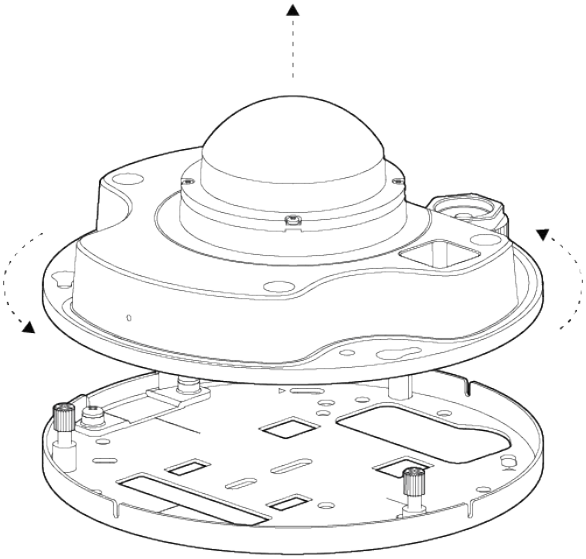
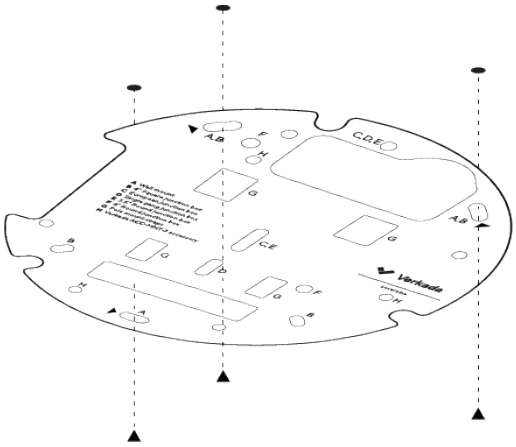
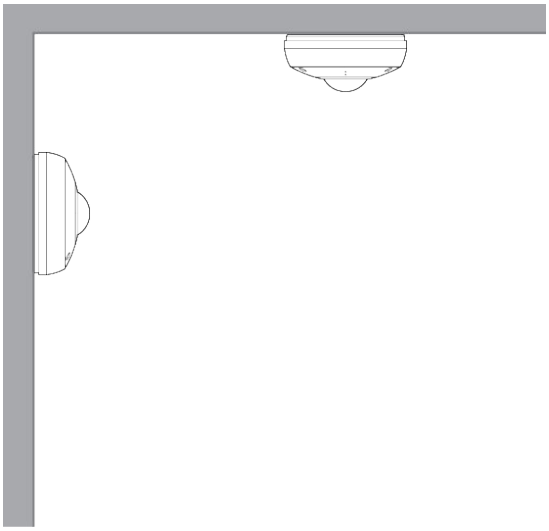
Mounting 1/3

Use provided T10 Torx security screwdriver to loosen the screws and lift the cover. To remove the mount plate, loosen the mount plate screws with a Phillips screwdriver and twist the camera counter clockwise. Lift the camera vertically off the baseplate and set aside.

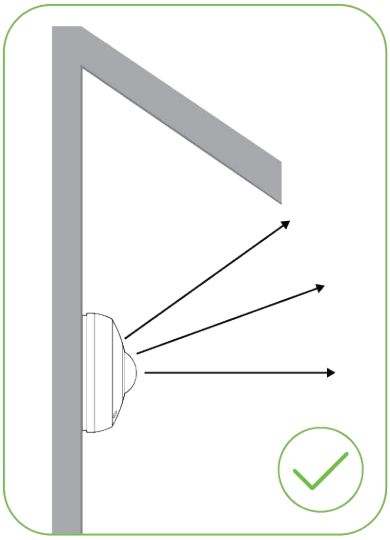


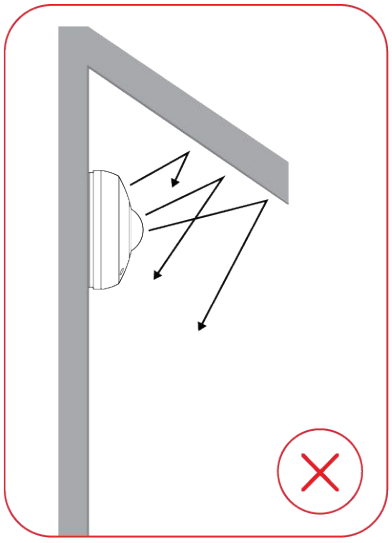
Use the provided mounting template to mark wall mount holes. For a junction box mount, use the mounting template to determine the correct hole pattern.





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.

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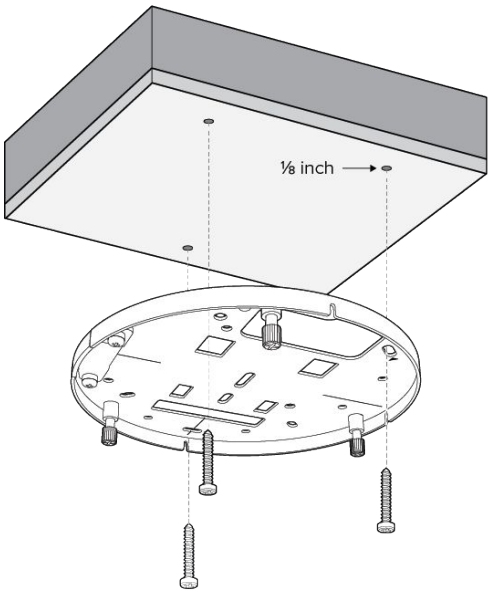
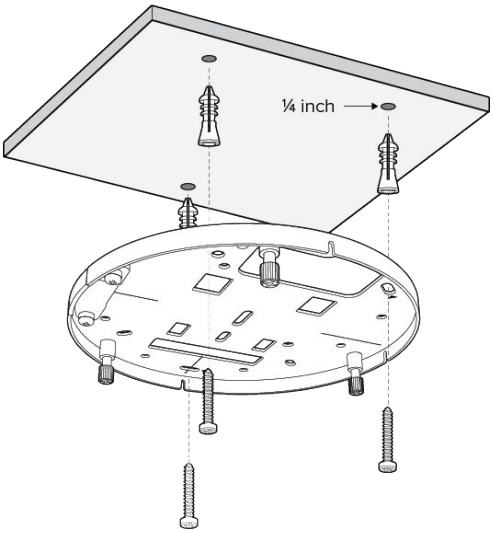
Mounting 2/3



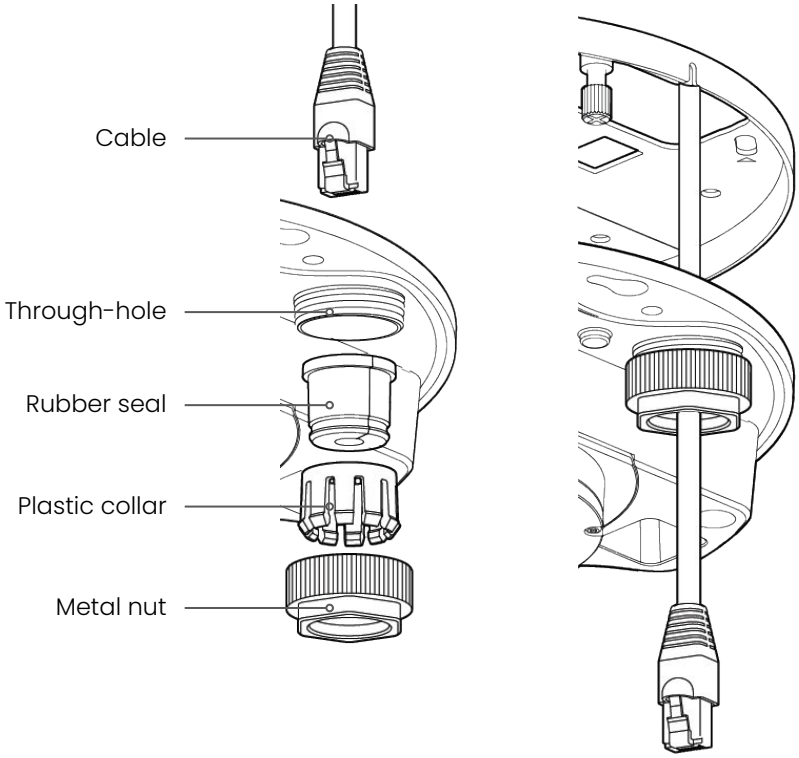
For a solid material like wood or metal, drill ⅛ inch pilot holes. Drive mounting screws directly into the pilot holes.



For drywall, drill ¼ inch holes. Insert plastic anchors into holes and drive mounting screws into anchors.

To seal the Ethernet cable, disassemble the cable gland and feed the ethernet cable through the baseplate through-hole.

To secure the camera, place it over the mount plate screws and twist clockwise. Tighten the mount plate screws with a Phillips screwdriver.



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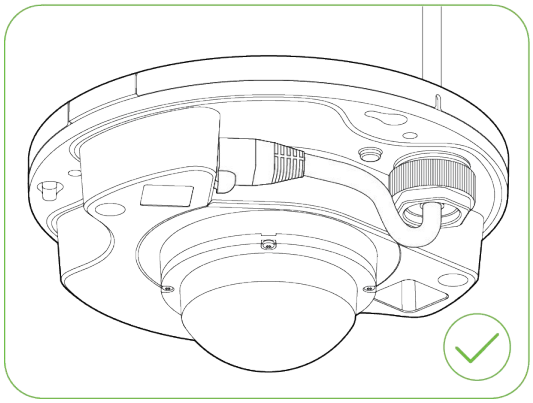
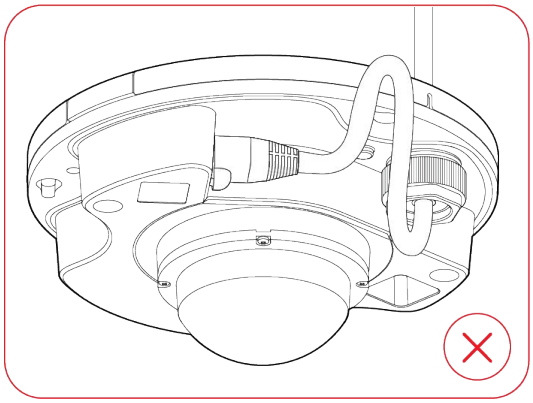
Mounting 3/3

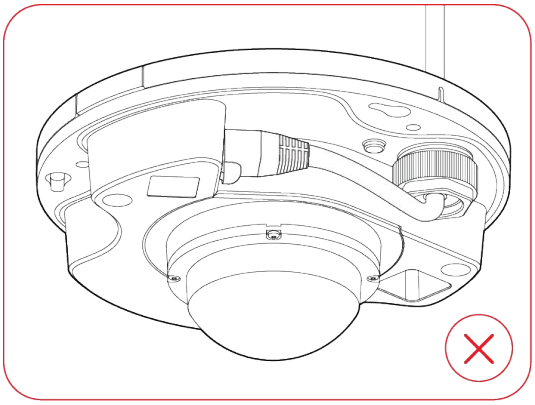
Gently pull the cable through the through-hole, so it has some slack but will not interfere with the top cover.



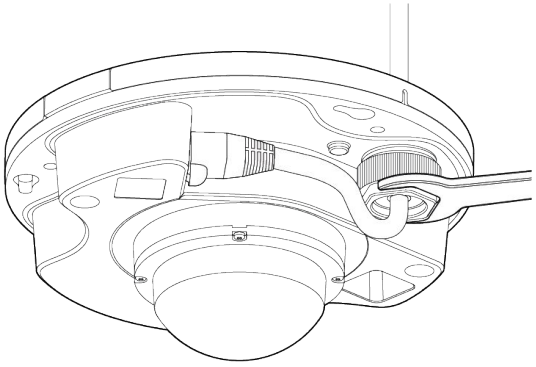
Too much slack in the Ethernet cable will create top cover installation issues and risk water leakage.



Pulling the Ethernet cable too tight will strain the cable gland and risk water leakage.



Firmly tighten using the provided wrench.



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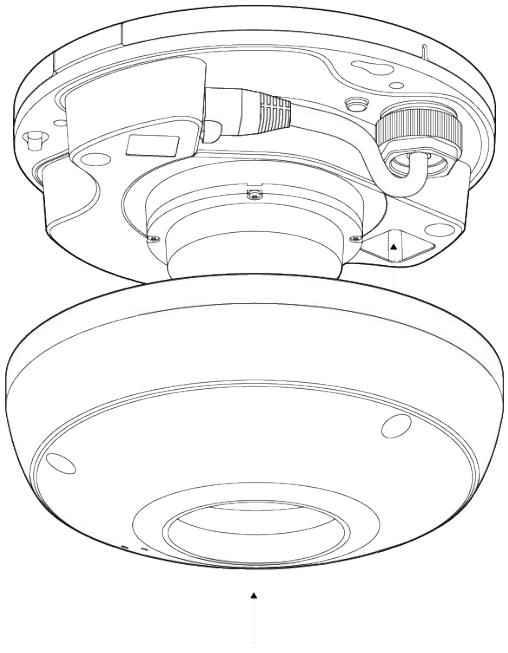
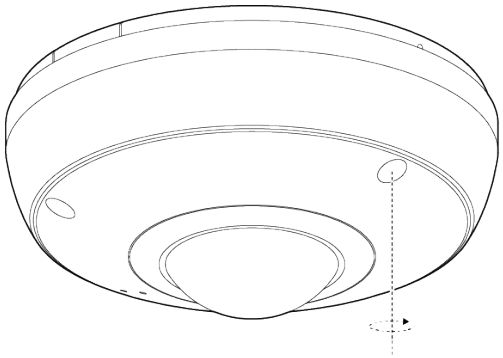
Secure

Replace the camera cover and secure it using the provided T10 Torx security screwdriver.



Please ensure pogo pins are aligned with receiving cavity for connectivity.



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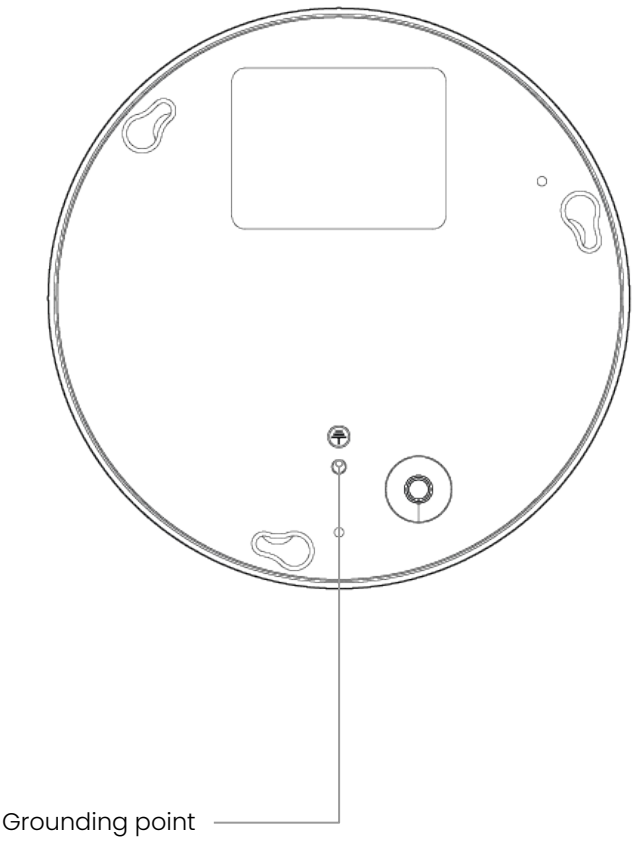
Grounding

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 M4-0.7 x 6mm 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.



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Appendix

C**F81-E Compliance**

Caution	1. Maintenance and repair work must always be carried out by qualified technical personnel. Disconnect power from the unit when performing a maintenance task. 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. 3. The product must be installed and protected in a location that is not easily accessible and is away from impacts or heavy vibration. 4. The device is only to be connected to PoE networks without routing to outside plants. 5. If powered by a power adapter, the adapter should be properly grounded. 6. Please contact certified dealers for power adapters.
PoE Adapter	To reduce potential safety issues, only use the PoE adapter provided with the product, a replacement PoE adapter provided by Verkada, or a PoE adapter purchased as an accessory from Verkada.

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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

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