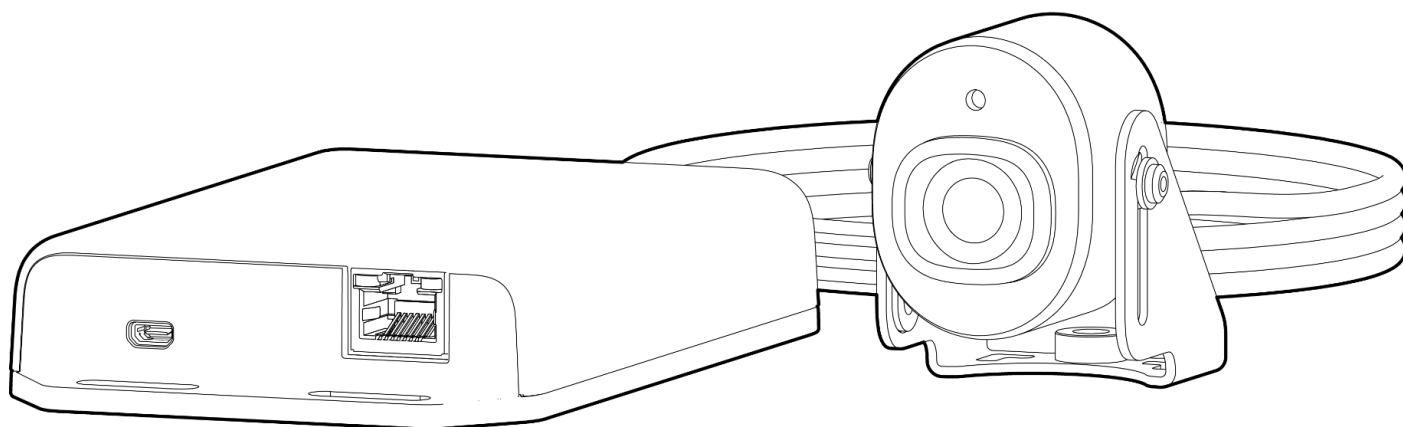# **CM42-S** Indoor Mini Split Camera

Document
Document Details

Version
V1.1 20250613
(V1.0 published 20240923)

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

Product Models
This install guide pertains to models CM42-S-HW.

What's in the box

CM42-S Main Unit
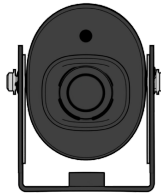
CM42-S Sensor Unit
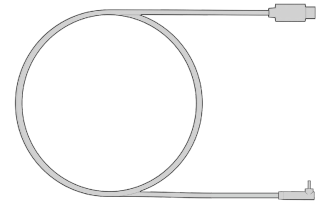
USB-C Cable
Length: 6.56 ft (2m)

Bracket Mount Screw,
1/4"-20 (1 pc)
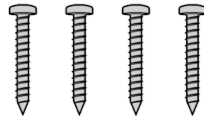
Wall Screw (4 pcs)
Length: 25mm **Diameter:** 4mm
Drive: #2 Phillips
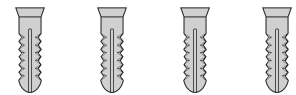
Wall Anchors (4 pcs)
Diameter: 6mm

Main Unit Mounting Adhesive
(2 pcs)

Sensor Unit Mounting Adhesive
(1 pc)
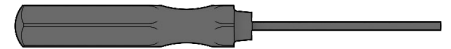
T10 Security Torx Screwdriver

What you'll need

- A smartphone or laptop
- 1/4 inch (6mm) drill bit for wall anchors (if mounting main unit with wall screws)
- 1/8 inch (3mm) drill bit for pilot holes (if mounting main unit with wall screws)
- A Cat5 or Cat6 Ethernet cable

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

LED Behaviors

Regular operation

● **Solid Orange**
Camera is on and booting up. If this status persists, check USB-C connection.

☼ **Flashing Orange**
Camera is updating firmware.

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

Status LED

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 to the PoE, but unable to connect to the Switch.
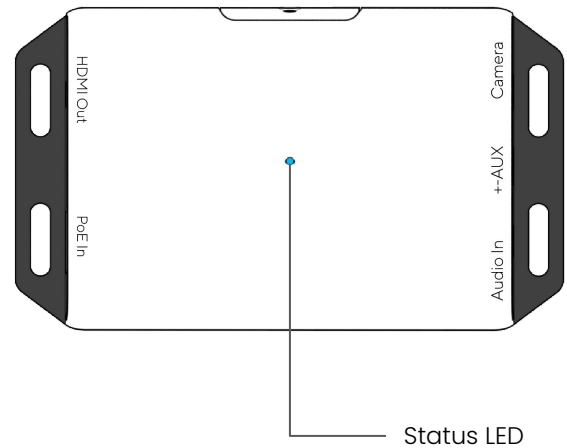
1 Blue, 2 Orange
Camera has not received an IP address.

1 Blue, 3 Orange
Camera has detected duplicate IP addresses on the LAN.

1 Blue, 4 Orange
Camera is not able reach the router.

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.

Main Unit

Audio In
(3.5mm)
Optional external mic-level microphone input

Camera Input
(USB-C)
Connect to sensor unit before connecting PoE In

+ - AUX with Terminal Block
(12V terminal block)
Not currently supported

HDMI Out
(micro HDMI)
For optional live video output

PoE In
Ethernet (RJ45)
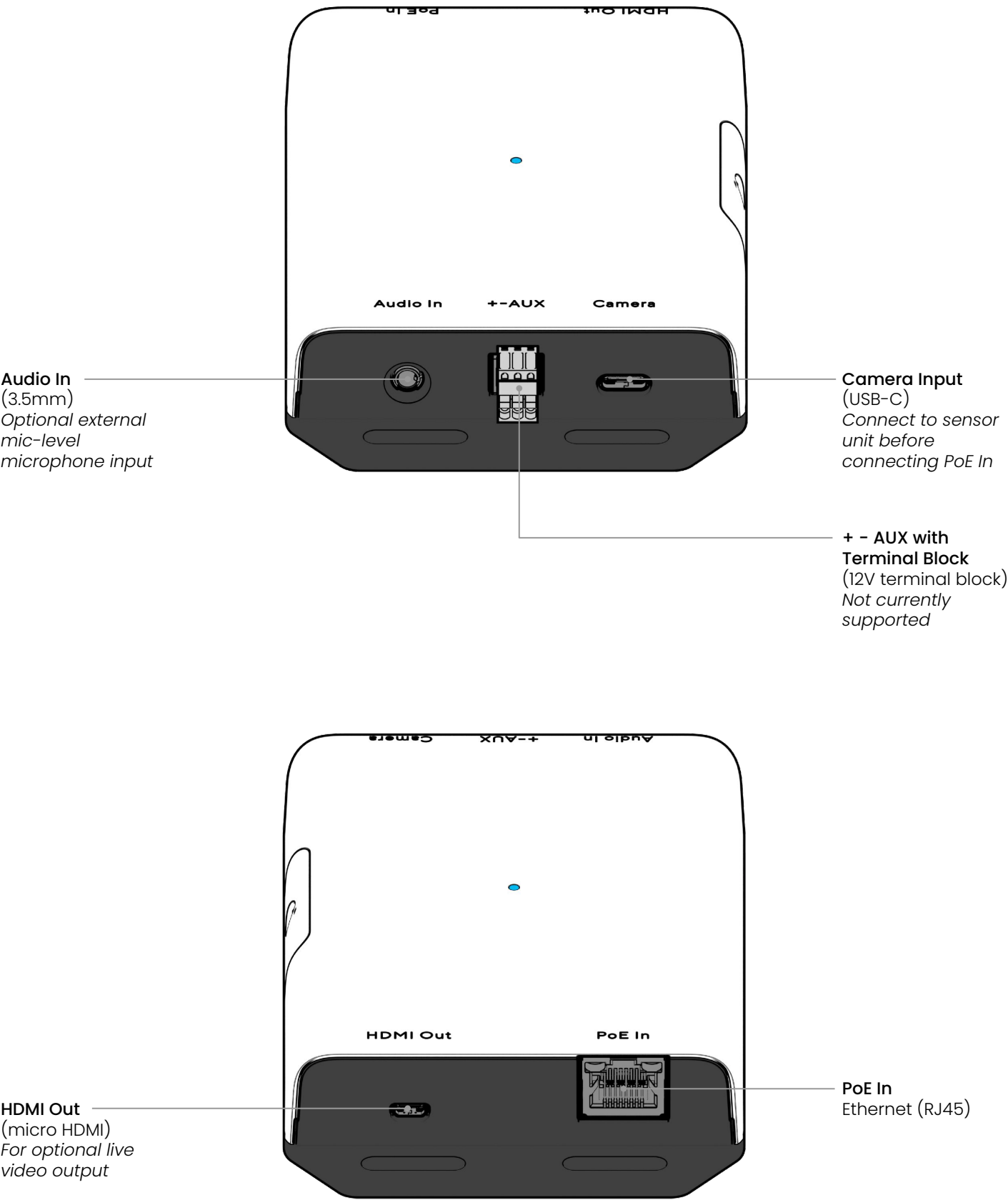
Sensor Unit

Ambient Light Sensor
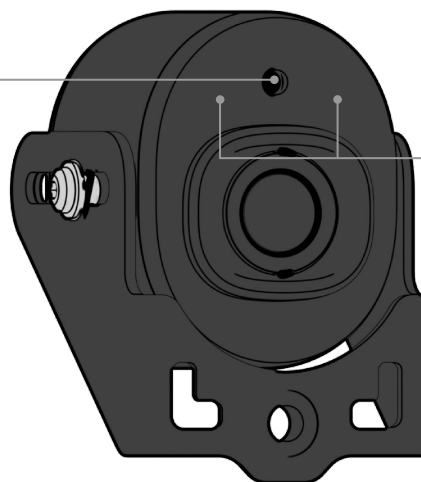
IR LEDs
2x per side, 4x total

Front of the Sensor Unit

Adjustable Bracket

USB-C Port

Bracket Mount Screw
Size: ¼-20"

Back of the Sensor Unit

Sensor Unit Dimensions

1.4 in
36.4 mm

1.9in
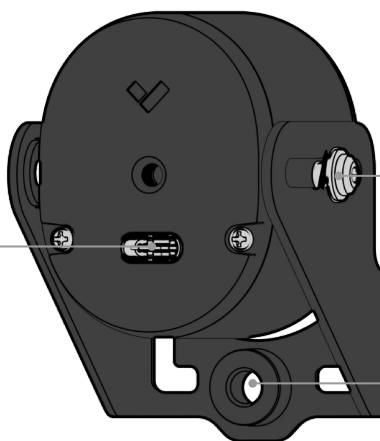47.4 mm

2.3 in
57.9 mm

1.8 in

1.9in
47.4 mm

2.4 in
60 mm
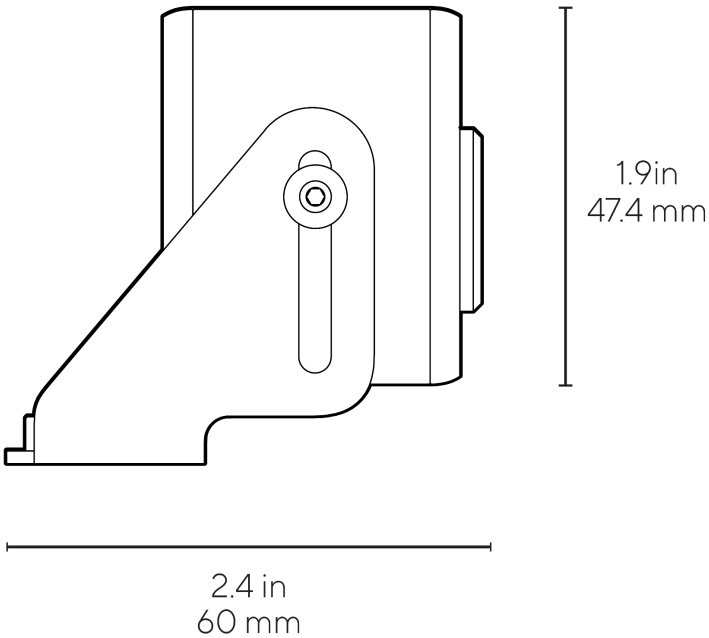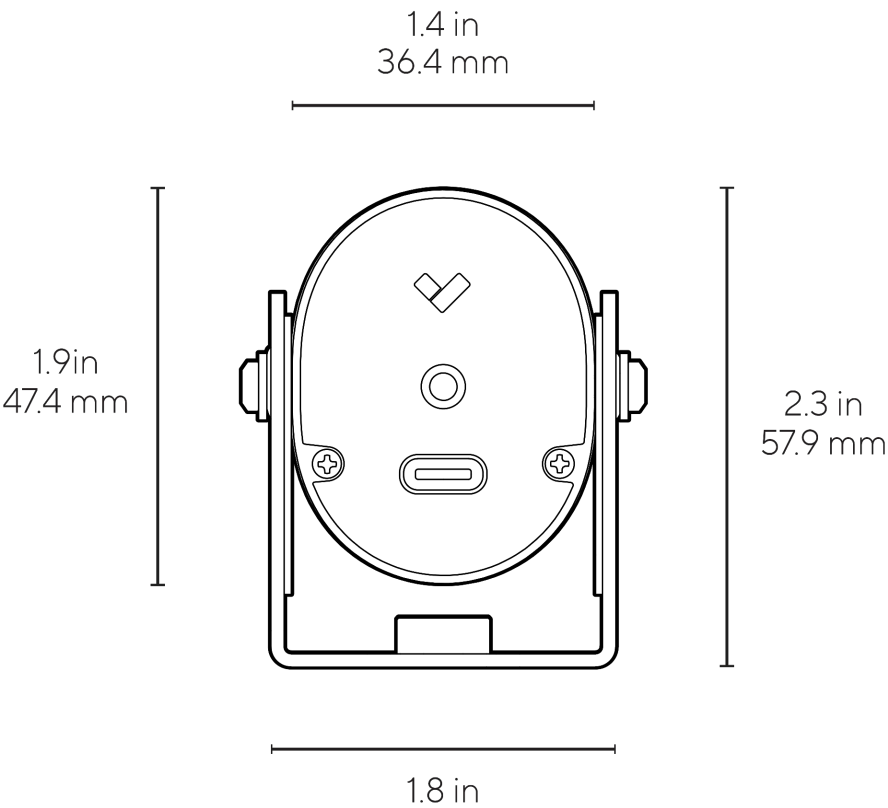
Adjust the Sensor Unit
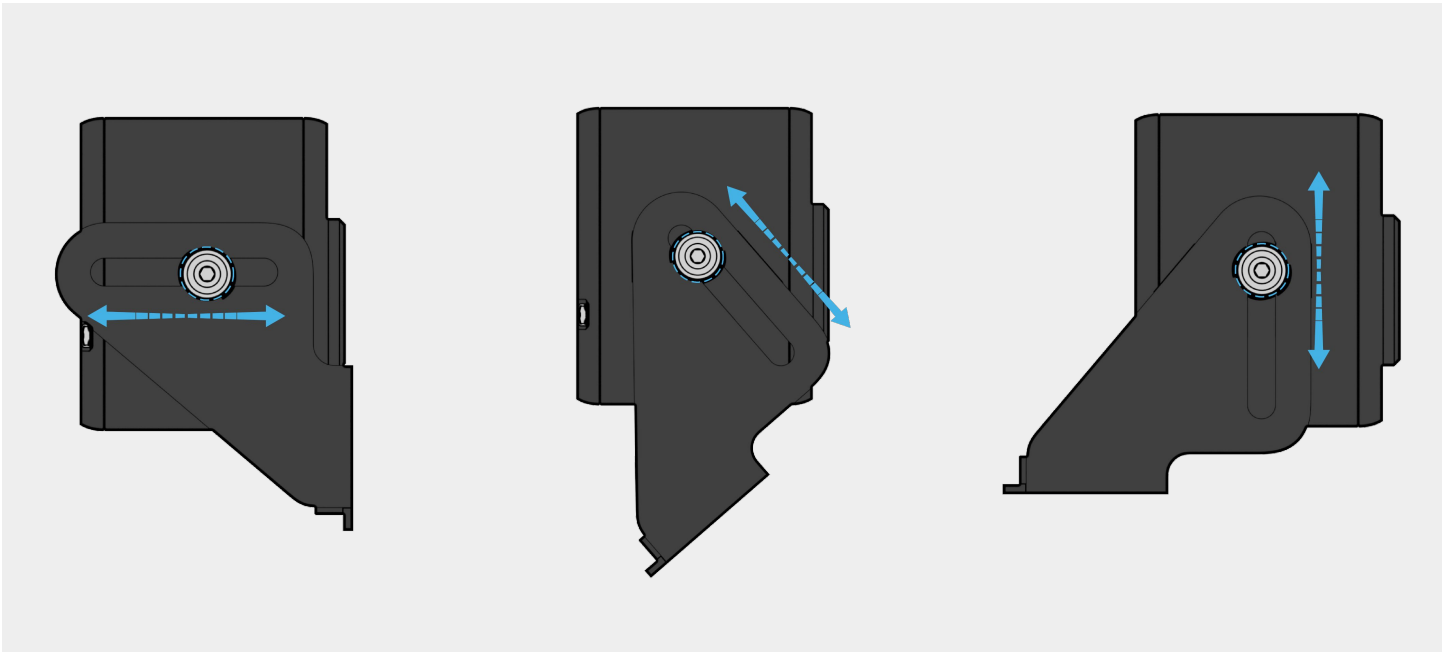
To rotate the sensor unit on the bracket for angled surfaces, use the provided T10 screwdriver to loosen the bracket screws.

The sensor unit can also be taken off the bracket and reattached for more orientation options.

Installation
Mounting Sensor Unit

The sensor unit bracket can be mounted to a surface using the provided slots or using the 1/4"-20 hole, found commonly in threaded mounting solutions.

It can also be mounted using the included adhesive for non-destructive installs.
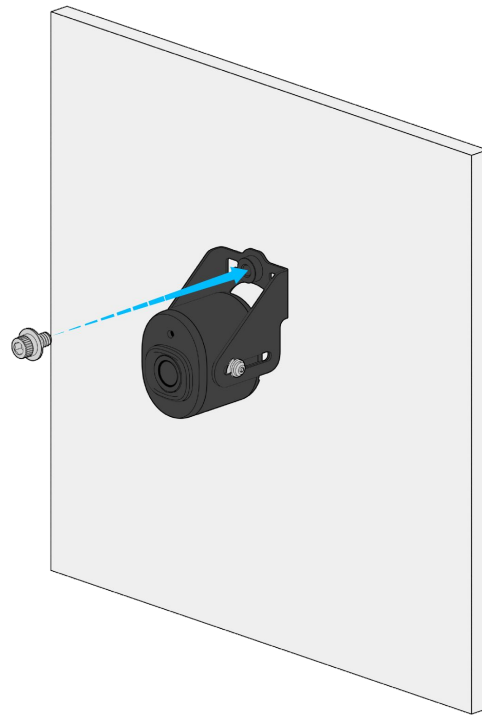
The highlighted blue section refers to the location the Mount Bracket Screw can fit and be used.
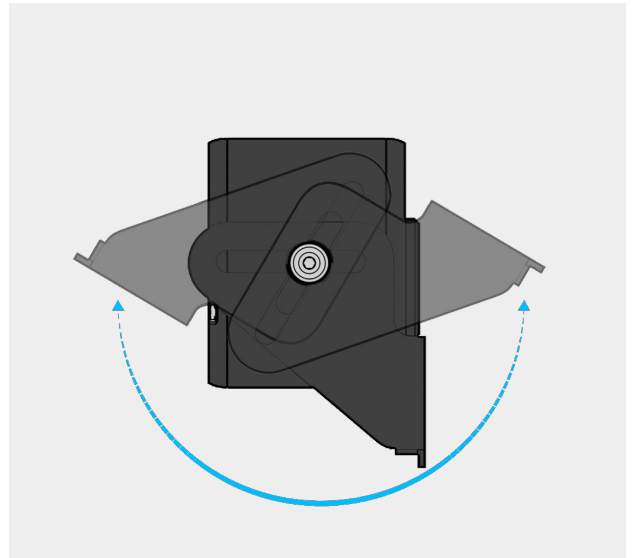
For a solid material like wood or metal, drill pilot holes.

Drive mounting screws directly into the pilot holes.

For drywall, plaster or masonry, wall anchors may be required.
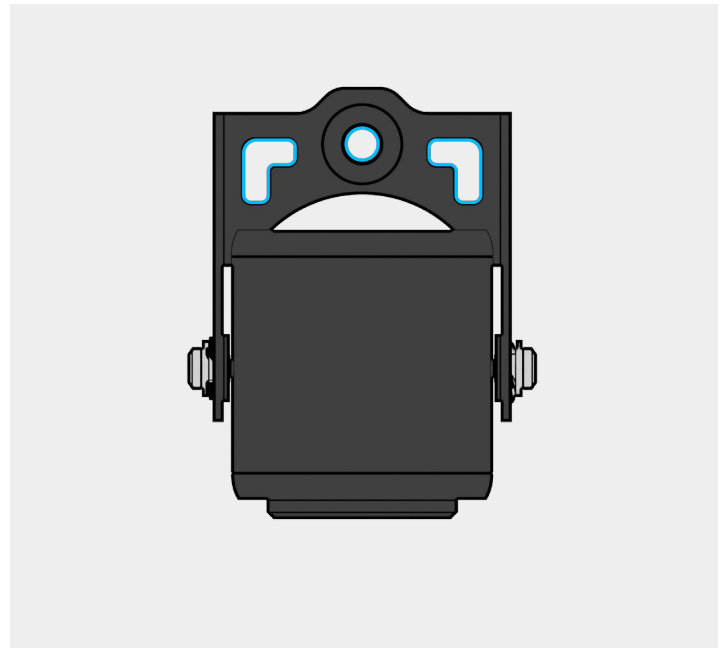
Installation
Mounting Options
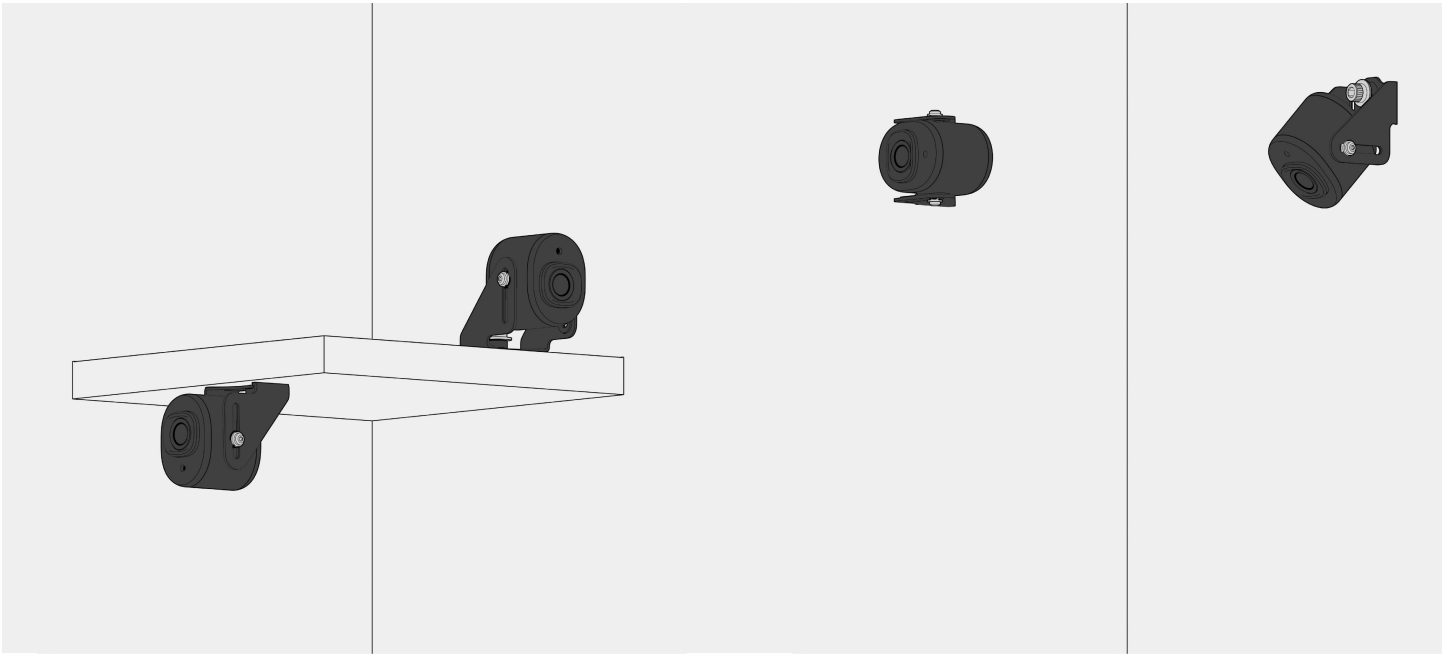
The sensor unit can be mounted in various orientations by adjusting the bracket and utilizing the provided adhesive or other mounting hardware.
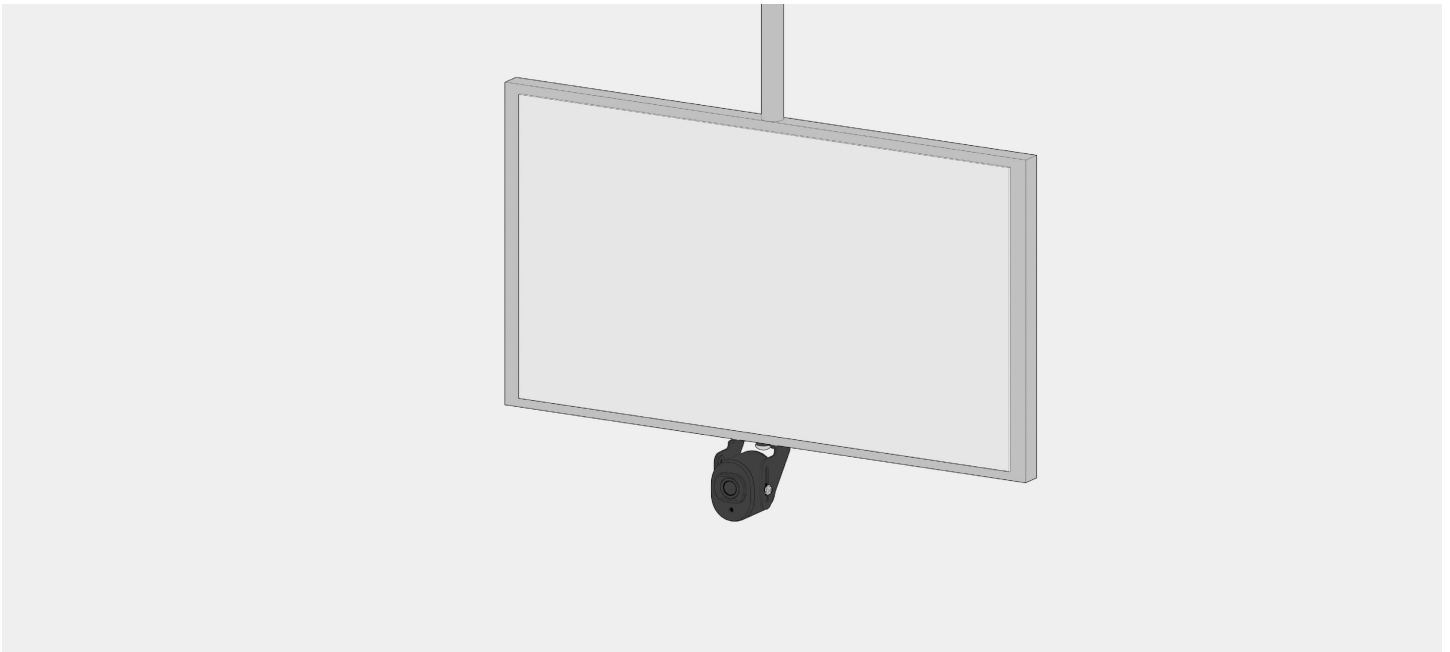
The sensor unit can be mounted to a frame on a television by using mounting adhesive or a 1/4"-20 screw.

Installation
USB-C Cable Orientation

Depending on the mounting scenario, utilize a USB-C cable orientation that keeps the cable out of the way of the sensor.

Alternate Cable Orientation
The L-shaped side of the USB-C cable can be utilized in cases of limited space.

Installation
Using the Terminal Block

The terminal block IO can be used to connect an optional accessory device, providing 12VDC across the + and - pins, with a maximum power output of 4W.

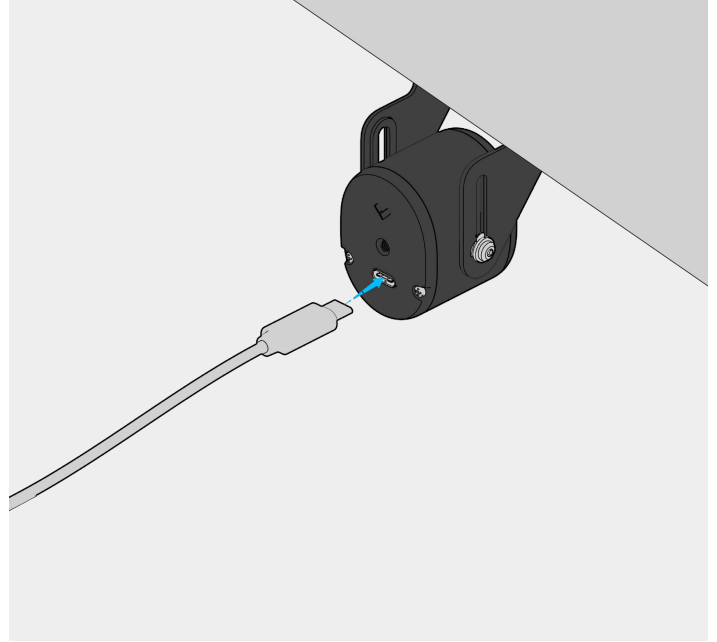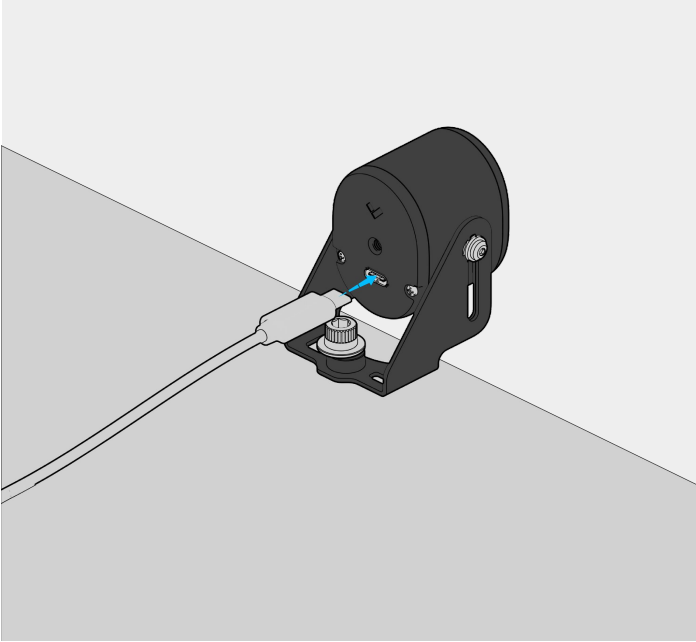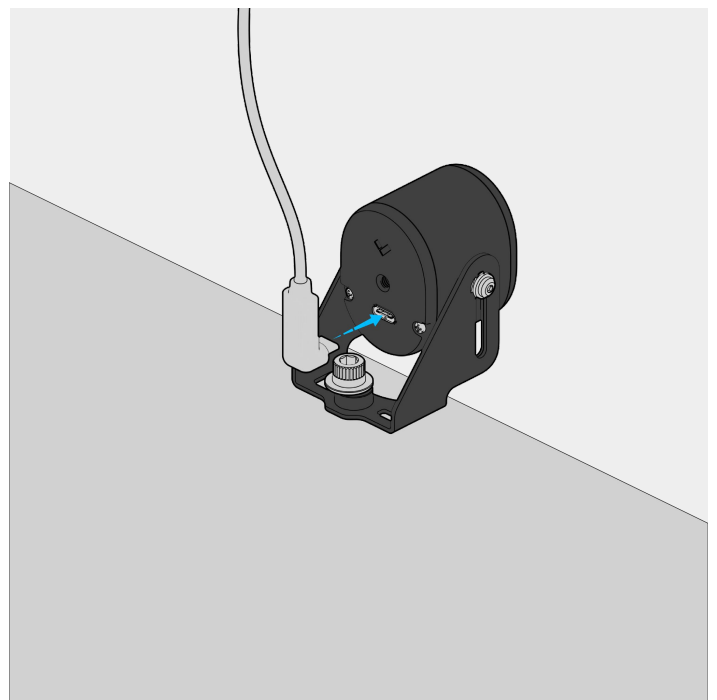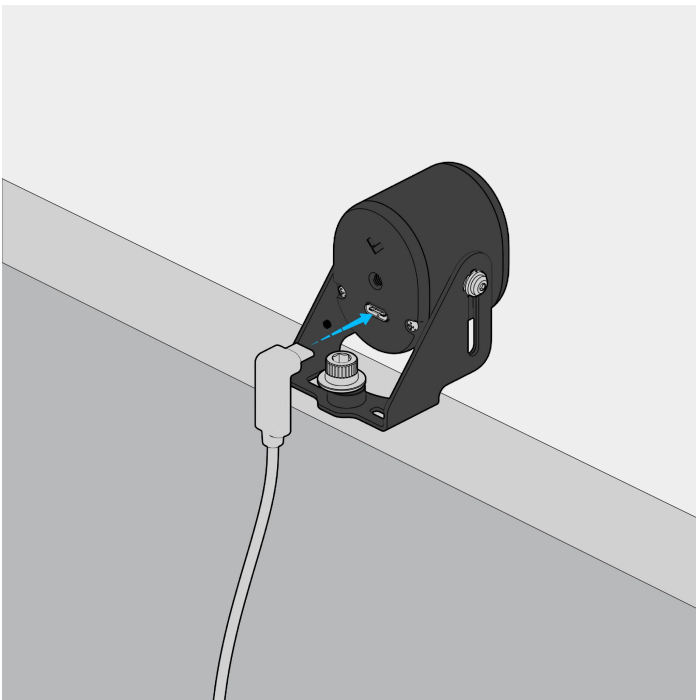|		
+	12V High	
-	Ground	
AUX	Auxiliary Input Can be connected across either + or - pins to detect events	

I/O Terminal Block
Back
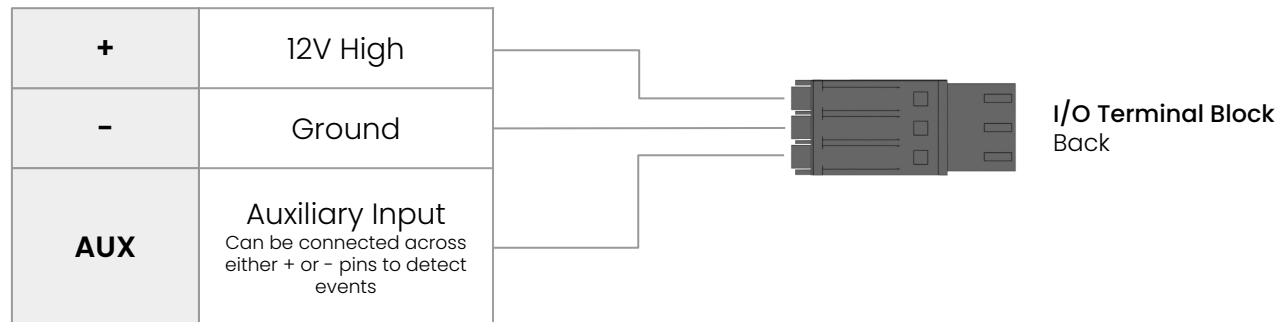
To wire an accessory into the terminal block, unplug the block from the CM42-S main unit.

Attach the wires of the accessory to the terminal block according to the wiring diagram above.

For a switch or a button, ensure that it is wired so that a toggle or press connects the AUX pin to either the + pin or the - pin.

Plug the terminal block back into the main unit.

Camera   +-AUX   Audio In

HDMI Out   PoE In

Installation
Connecting to Command

Connect the main unit to the sensor unit with the USB-C cable, then connect an Ethernet cable to the RJ45 port.

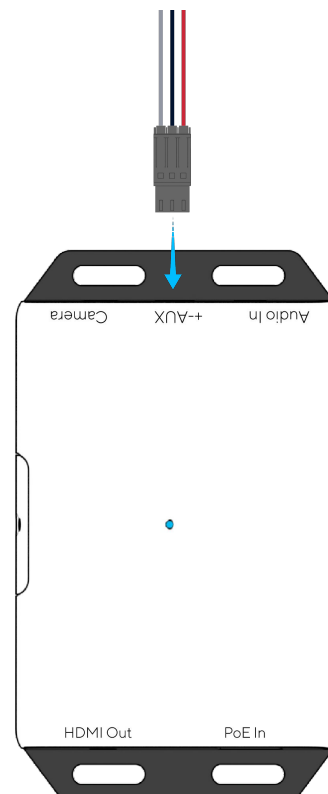The status LED will turn orange to indicate the camera has power. The LED will turn blue to indicate the camera is active. See additional LED states and definitions under LED Behaviors.
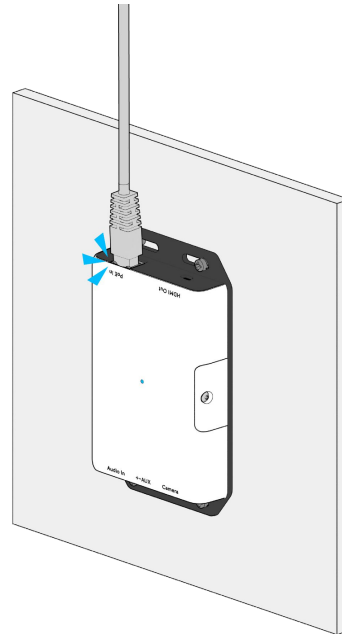
For easy registration and setup, scan the QR code on the product. If you prefer to manually register your product, please proceed to: verkada.com/start

Scan QR Code to access Command

Installation
Main Unit Mounting

The main unit can be mounted to a surface using the provided slots. It can also be mounted using the included adhesive for non-destructive installs.

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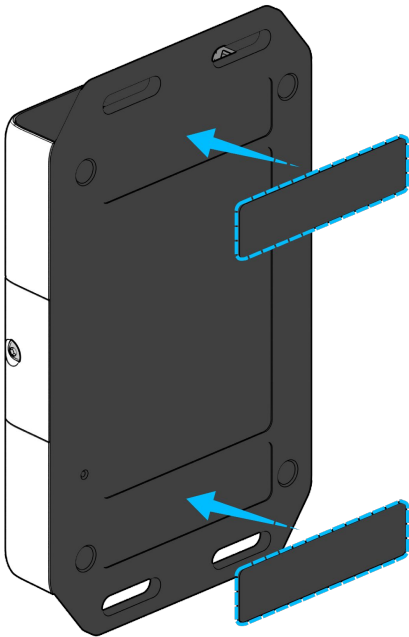
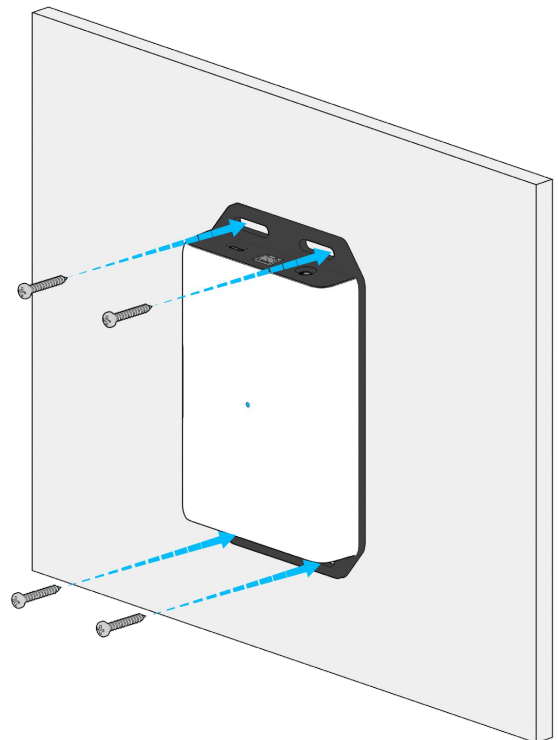Drive the provided mounting screws directly into the pilot holes.

For drywall, plaster or masonry, use the included wall anchors.
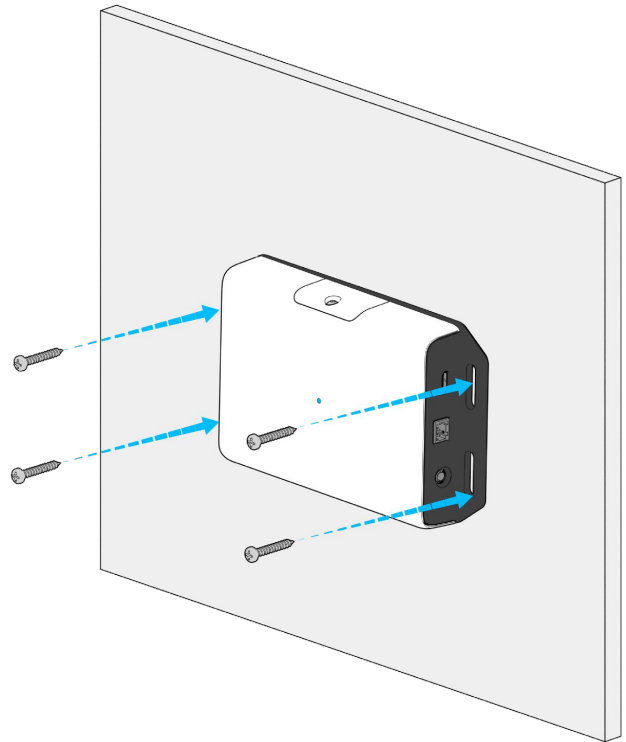
Horizontal Mounting Orientation

Double adhesive

Vertical Mounting Orientation

CM42–S 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.
FCC Compliance	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.
	NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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