



Axon Outpost Installation Guide



Models: AX1054

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Introduction

This document describes how to set up and install Axon Outpost. It covers setup of the solar panel, use of the app, installation on two types of poles, and installation of the pole itself.



The pole installation procedures described here are generally applicable to most temperate environments. Defer to local professionals for best practices for your physical environment; installing a pole in Florida will differ from installing one in Alaska.

Only qualified technicians should perform tasks related to connecting to AC power.

Read these instructions completely before starting assembly and installation. If you have questions, contact our support team at my.axon.com/s.

Watch this [video](#) for an overview of Axon Outpost Installation.

Tools you'll need







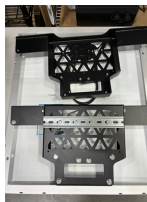
Tool	Purpose
Power drill	Driving sockets
Sockets (with drill attachment): 8, 10, and 13 mm	Tighten bolts on solar panel brackets, camera mounts, and hose clamps
7/32" step up drill bit	For 100W panels, to drill mounting holes
Marking tool	For 100W panels, to mark drill holes
Wire strippers	For trailer installs, strip wire to make electrical connections
Crimpers	For trailer installs, crimp butt-splices and fork terminals
Rubber mallet	Move components into place






Supplies you'll need

You'll need these expendable parts that are not included.

Item	Approx. Qty	Purpose
Hose clamps - various diameters	2	For mounting camera or solar panel side mount to variety of existing poles
Zip ties	Depends on install	Wire management
#10 flat washers	4	For 100W panels, to mount solar brackets
Butt connectors, 16-14 AWG, blue	2	For trailer installs, splicing camera power cable
Assorted ring and fork terminals	2	For trailer installs, terminating camera power cable

Package contents

Part Name	Qty	SKU	Image	Note
Outpost camera	1	102032		Outpost Camera
Outpost camera, solar power cable, 1 m	1	102542		Used in solar installs
Outpost camera, unterminated power cable, 4 m	1	102537		Used in non-solar installs
Outpost camera pole mount	1	102536		Camera pole mount
Outpost camera wall mount	1	102546		Camera wall mount
Solar panel (50 or 100 W)	1	102487 (50 W), 102488 (100 W)		Solar panel
Solar panel bracket set	1	102539		Set of two pieces

Part Name	Qty	SKU	Image	Note
Top mount end cap	1	102538 Standard 3"; 102545 Mash 4.5" diameter		End cap for Axon poles
Battery enclosure	1	102126 Standard; 102543 Extended		Enclosure containing external battery and charge controller
Solar panel cable	1	102544		Connects solar panel to enclosure
Side mount kit	1	102541		Hardware to mount solar panel to existing infrastructure
Outpost camera, AC power supply, outdoor	1	102547		Receives AC power and supplies DC to the camera

Site selection and mounting guidelines

We recommend the following practices for site selection and camera set-up:

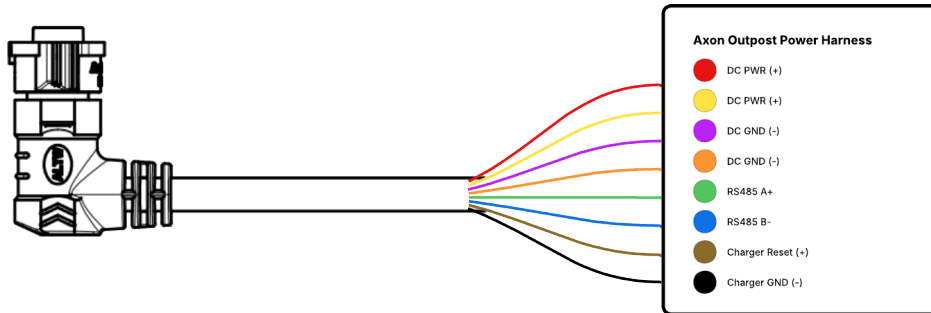
- Read range and roadway placement:** The camera's maximum read distance is up to 75 ft and it supports a minimum of 2-lane capture when installed with appropriate placement and aim. Actual performance depends on how the camera is positioned relative to the roadway, including setback from the road edge, mounting height, and distance to the farthest lane to be captured. When planning placement, ensure the target lanes have a clear line of sight and that the farthest lane falls within 75 ft of the camera.
- Reflective signage (nighttime IR):** At night, the camera uses infrared (IR) illumination. Avoid placing the camera where highly reflective signs or materials (stop signs, speed limit signs, reflective barricades, etc.) are within the camera's primary field of view near the roadway. These surfaces can reflect IR back toward the camera

and may cause glare/overexposure during passing vehicles, reducing plate capture/read performance. If reflective signage is unavoidable, adjust placement and aim so it is outside the primary viewing area.

- **Aiming the camera:** Use the Axon Outpost Manager mobile app during installation to confirm camera positioning, field of view, and aim. This helps validate roadway coverage and minimize reflective surfaces in view.
- **Recommended mounting height:** Install the camera 10–12 ft above ground. Mounting above or below this range may reduce capture/read performance due to less optimal viewing angles.
- **Solar-powered site considerations:** For solar-powered installations, choose a location where the solar panel can face generally south and receive unobstructed sunlight throughout the day. Avoid placement where the panel may be shaded by trees, buildings, overhangs, light poles, or signage, especially during winter months when the sun is lower. Shading can reduce charging performance and may impact system uptime.
- **Avoid solar panel IR flare:** If the camera is mounted beneath or near the solar panel, the camera's nighttime IR illumination can reflect off the panel surface and create glare in the image, which may reduce plate capture/read performance. To prevent this, mount the camera so it sits far enough below and/or offset from the panel that the panel is not directly in front of the camera's IR output. As a rule of thumb, ensure the camera-to-panel separation is greater than the length of the nearest panel mounting arm/bracket, and add a small safety margin to account for hardware and tolerances. If glare is observed at night, reposition the camera lower or farther away from the panel, or adjust the panel/camera placement to eliminate reflective surfaces in the camera's primary viewing area.

Quick reference

Power cable wiring diagram





LED ring behavior

The LED ring provides visual feedback about Axon Outpost's operational and diagnostic states. These indicators may appear during start-up, pairing, status checks, and other system events.

Indicators – normal operation and diagnostics







Device State	LED Ring Behavior
Powering On	Green pulsing in the corners
Boot Complete - Unregistered	<ul style="list-style-type: none"> Bottom-left RED (unregistered) Bottom-right BLUE (pulsing) Top = Battery Level (Red / Yellow / Green)
Boot Complete - Registered	<ul style="list-style-type: none"> Bottom-left GREEN (registered) Top = Battery Level (Red / Yellow / Green) Left vertical = GREEN (connected) or RED (not connected) Right vertical = YELLOW pulse on plate read
Battery Level (SoC)	<ul style="list-style-type: none"> Red <25% Yellow 25–90% Green >90%
Pairing Mode (3s button press)	Blue (pulsing)

Device State	LED Ring Behavior
Pairing Successful	 Blue (solid)
Diagnostics (short press)	Shows registration, battery level, connectivity, and ALPR indicators
Normal Operation	LED ring follows configured visibility settings
Powering Off	 Red (pulsing)

These behaviors apply during normal operation when the device is not connected to the Axon Outpost Manager mobile app.

Indicators – mobile app only

These indicators appear only when Axon Outpost is paired with and actively communicating through the Axon Outpost Manager mobile app.

Mobile App Event	LED Ring Behavior
Searching for device	 Blue
Carrier / network activity	 Magenta
Firmware update	 White
Registration success	 Rainbow sequence
App-initiated reboot	 Red
Plate read	 Yellow (brief pulse)

During normal operation, the LED ring remains off unless the Community Visibility setting is enabled in Axon Evidence. Configure this setting at the organization level or apply to individual devices depending on administrative policy.

Button behavior

The Axon Outpost button supports multiple press durations, each mapped to a specific user-facing function. These functions ensure clear intentional actions and prevent accidental activation. The camera is on if it is receiving power.

Press duration	Action	Notes
<500 ms	No action	Accidental activation while handling device
500 ms	LED ring	Display device status via LED ring for 10 seconds
3 seconds	Enable pairing mode	Hold to trigger pairing mode
6 seconds	Power off	Power device off
12 seconds	Hard reset	Force device reboot

Solar mount

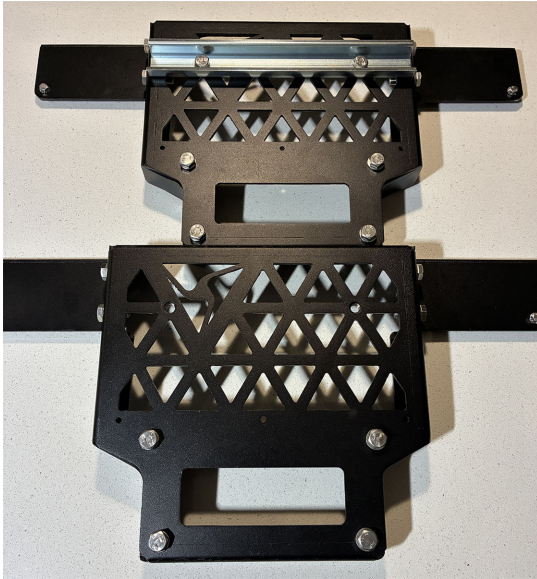
Installation of 50W solar panels

Top mount 50W

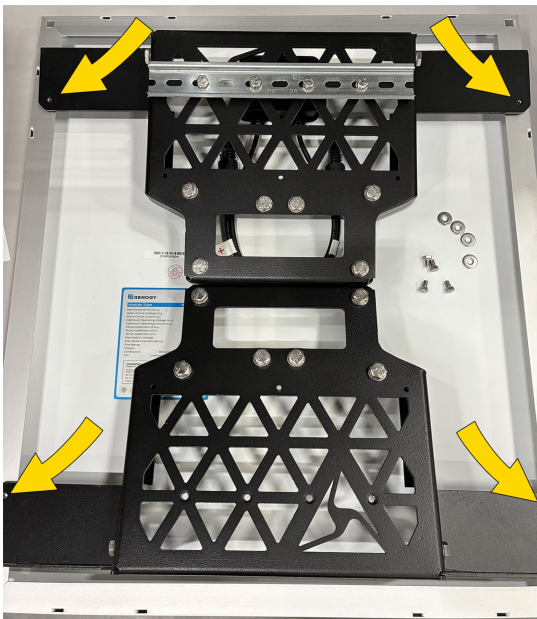
1. Unbox the solar panel.



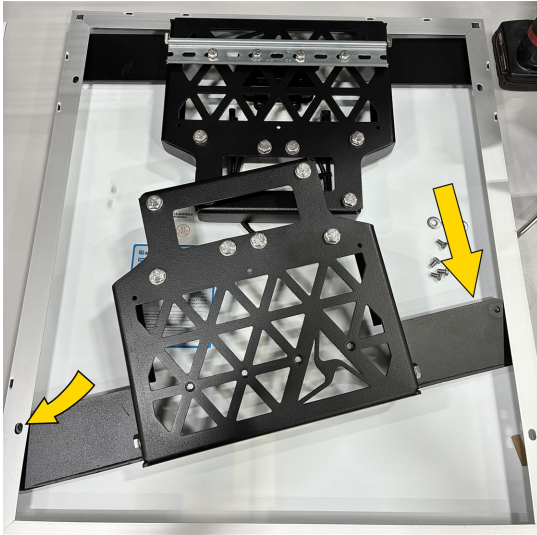
2. Unbox the **2** solar panel bracket pieces. One has a pre-attached DIN rail; leave this rail on.



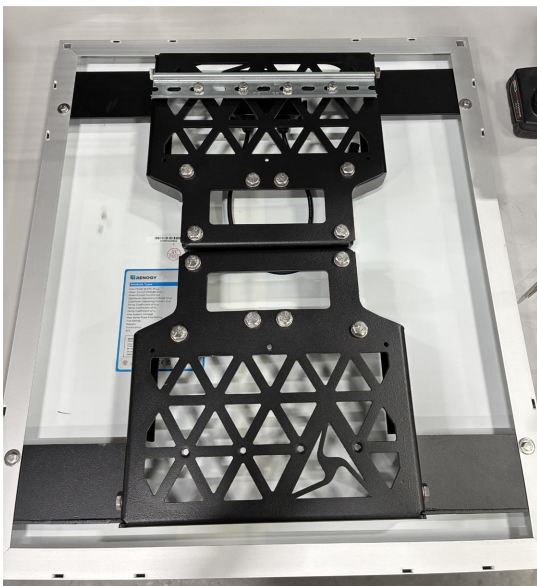
3. Remove the **2** 8 mm hex bolts from both solar panel brackets (**4** bolts total).



4. Install the solar panel brackets under the solar panel frame. Slide each bracket in at an angle and use a rubber mallet as needed to align properly.



5. Align the mounting holes from the solar panel brackets with the solar panel frame. Secure using the 4 8 mm hex bolts.



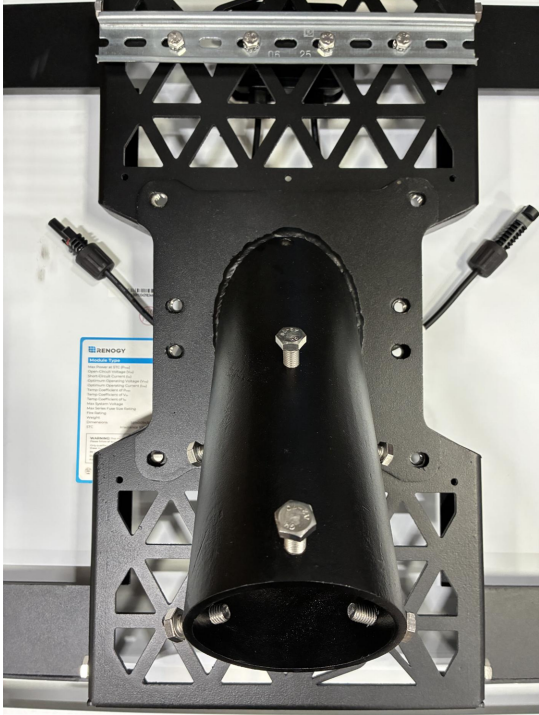
6. Remove the 8 13 mm hex bolts from the solar panel brackets. *If you are doing side-mount installation from the next section, return to [step 2](#) on page 18.*



7. Locate the pole end cap.



8. Place the end cap on top of the solar panel brackets. Align the mounting holes on the end cap with the holes on the solar panel brackets.



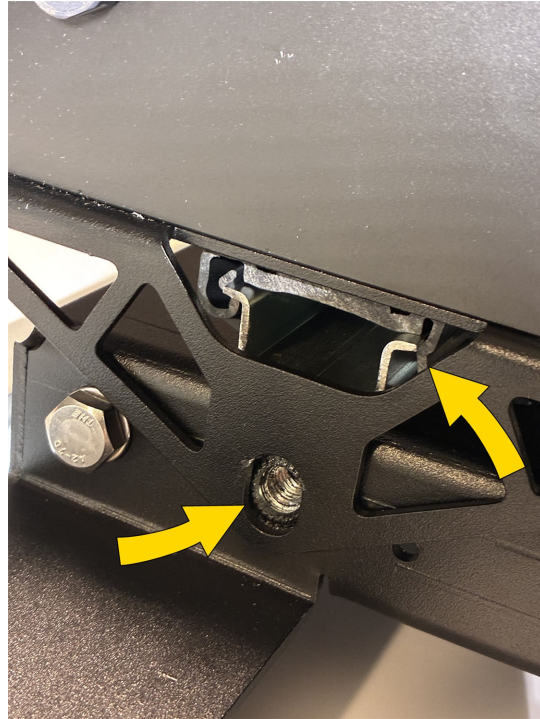
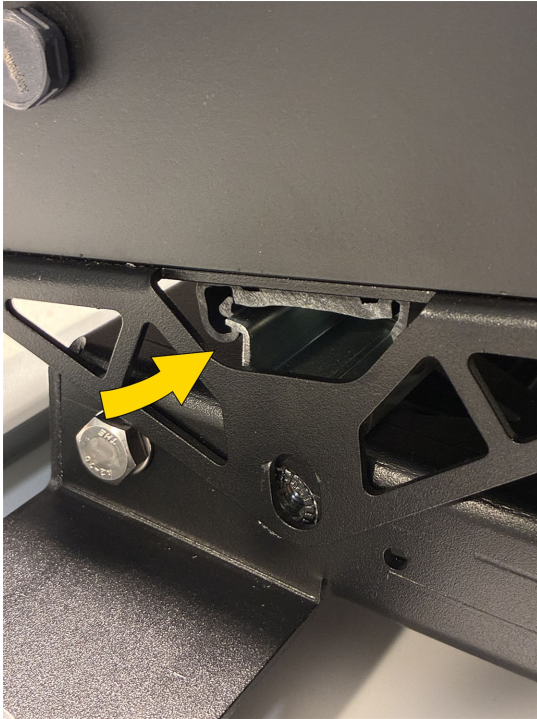
9. Secure the end cap to the solar panel brackets using **8** 13 mm hex bolts.



10. Remove the **2** 13 mm hex bolts inline with the DIN rail (left bolt shown here; other bolt is on the opposite end).



11. Attach and snap the assembled battery enclosure onto the center DIN rail. Start with the top side of the enclosure, hooking it onto the rail, then press down on the front side to snap into place. Ensure both sides of the enclosure are securely attached to the DIN rail and that the enclosure attachment bracket aligns with the previously removed hex bolt holes.



12. Secure the battery enclosure to the solar panel bracket using the **2** 13 mm hex bolts.

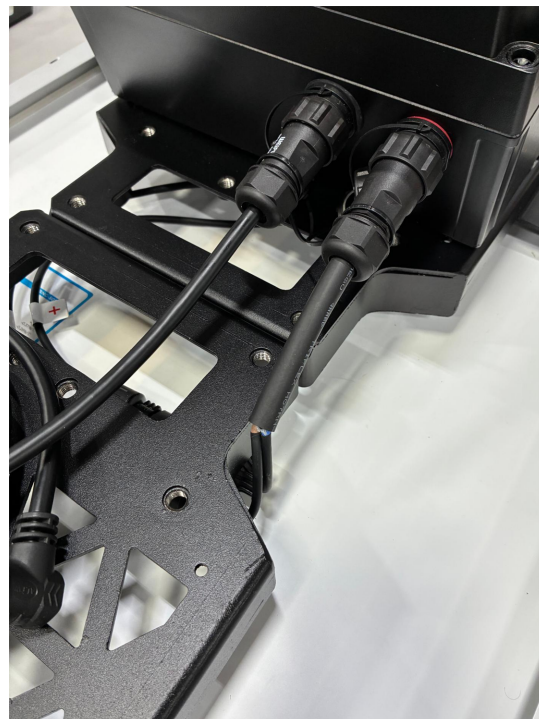


13. Remove and discard the caps covering the camera and solar ports on the enclosure.

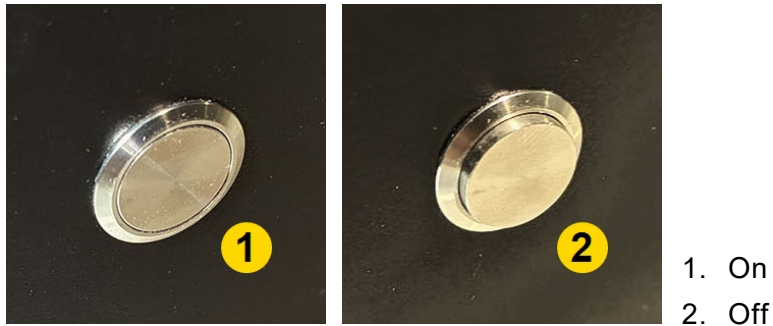
14. Locate the camera power and solar cables. Connect the camera cable first (left), followed by the solar cable (right) to the battery enclosure. Line up the dots on the connectors and plug into the appropriate ports. Firmly twist each cable end to lock into place.



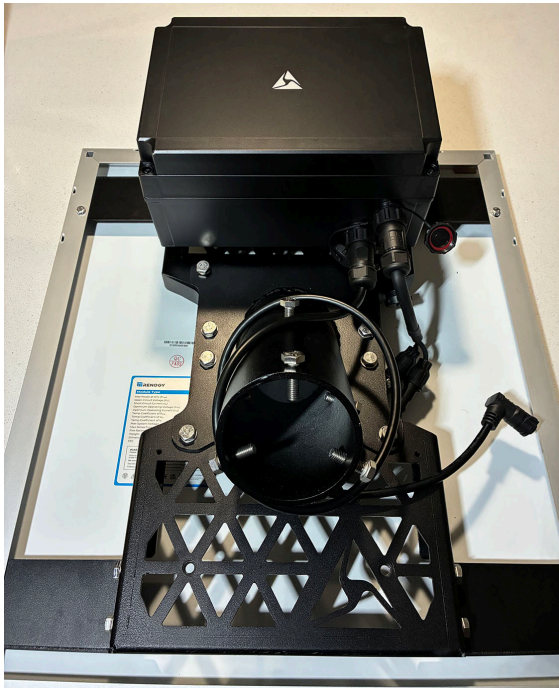
15. Connect the solar panel positive/negative cables to the solar cable enclosure pigtail. Tuck the solar cable under the brackets.



16. Locate the push button on the battery enclosure and push it in flush (left image below) so the battery connects to the charge controller. The image on the right shows the button in the Off state.



Final assembly reference:



Side-mount- 50W

Note:Included band strap hardware fits 3"–4.5" diameter poles. For larger infrastructure, installers must supply appropriately sized stainless banding/straps and follow local best practices. Supported banding width: $\leq 3/4$ ".

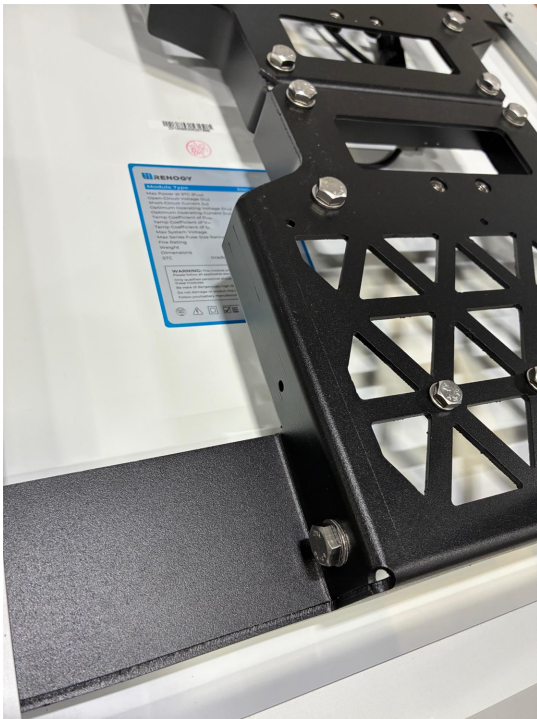
1. Follow steps 1–6 of [Solar mount](#) on page 9.
2. Unbox the Side Mount Hardware Kit.



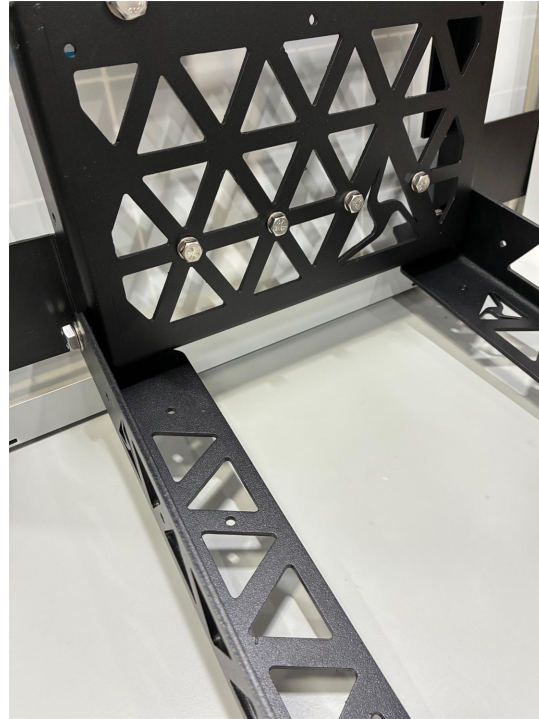
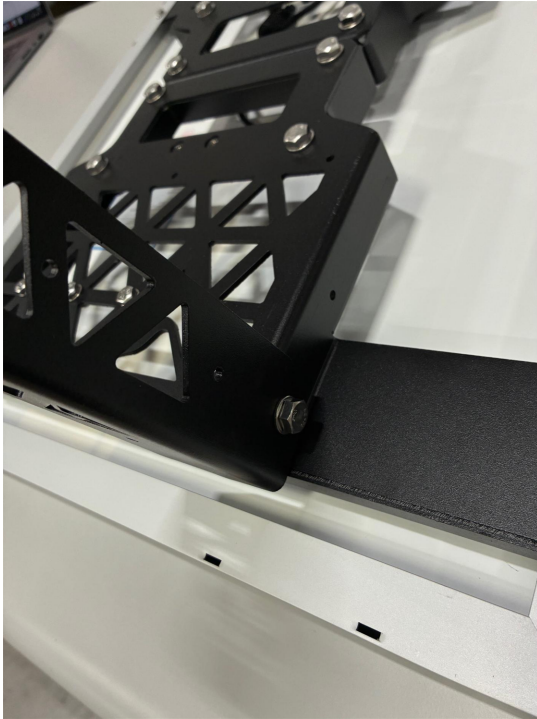
3. Place the square end cap on top of the solar panel brackets. Align the mounting holes on the end cap with the holes on the solar panel brackets. Secure the end cap to the solar panel brackets using **8** 13 mm hex bolts.



4. Remove the pre-attached 13 mm hex bolts from the upper and lower sides of the solar panel brackets.



5. Attach the side mount arms to the solar panel bracket using the 13 mm hex bolts. Install the arms on the bracket opposite of the DIN rail.



6. Attach one of the pole brackets to the ends of the arms using the pre-installed 13 mm hex bolts.



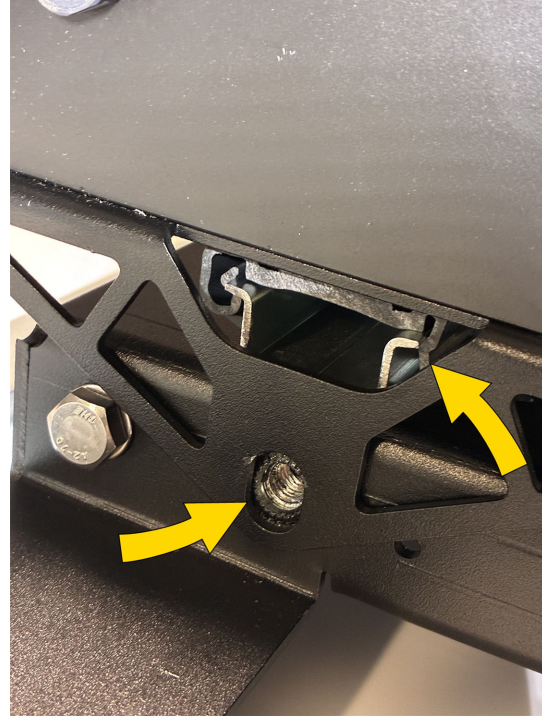
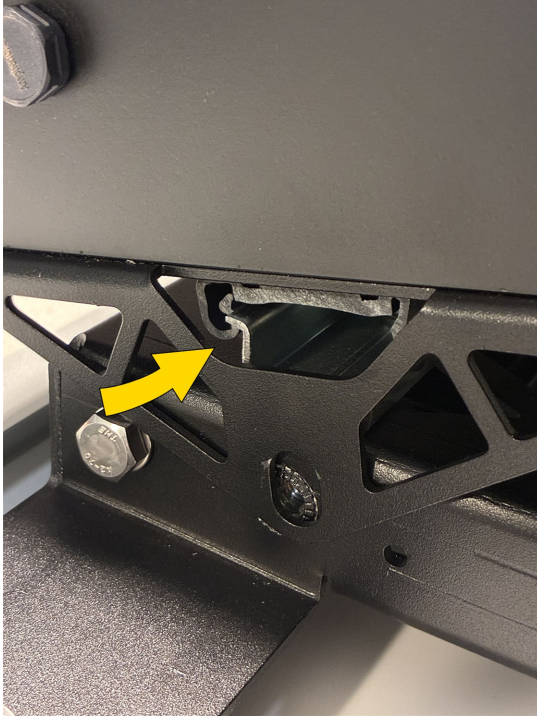
7. Attach the other pole bracket to the top solar bracket using the pre-installed 13 mm hex bolts.



8. Remove the 2 13 mm hex bolts on either end of the middle (second) DIN rail.



9. Attach and snap the assembled battery enclosure onto the center DIN rail. Start with the top side of the enclosure, hooking it onto the rail, then press down on the front side to snap into place. Ensure both sides of the enclosure are securely attached to the DIN rail and that the enclosure attachment bracket aligns with the previously removed hex bolt holes.



10. Secure the battery enclosure to the solar panel bracket using the 2 13 mm hex bolts removed previously.



11. Route hose clamps through the slits in both the top and bottom pole brackets to prepare for installation.

Final assembly reference:



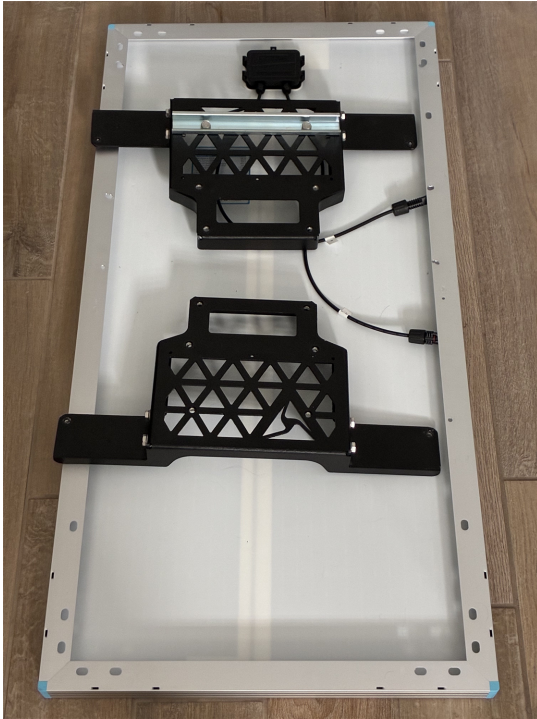
Installation of 100W solar panels

Top mount 100W

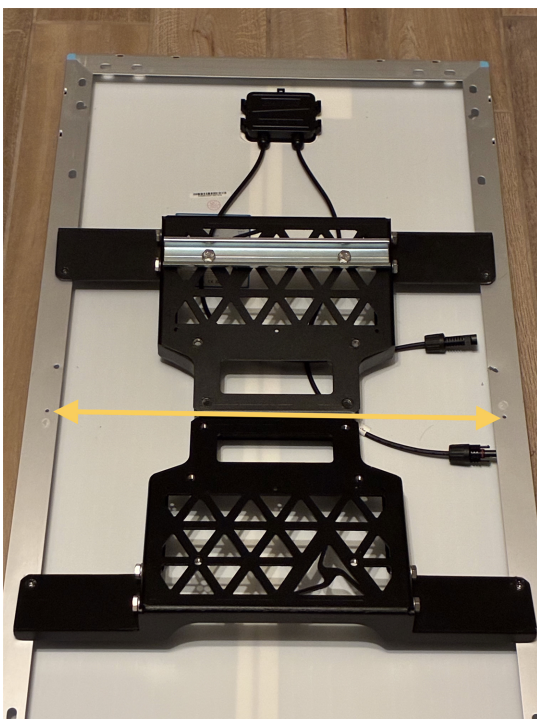
1. Unbox the 100W solar panel from its packaging.



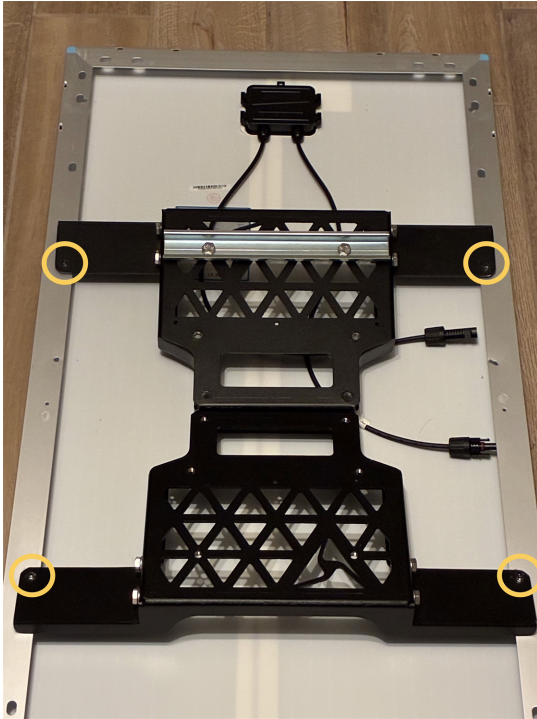
2. Unbox the 2 solar panel bracket pieces. One has a pre-attached DIN rail; leave this rail on. Remove the (2) 8 mm hex bolts from both solar panel brackets (4 bolts total)



3. Line up both solar panel bracket halves, with the dividing line centered horizontally with the center of the solar panel. Ensure the bracket arms sit flush on the top edge of the solar panel. The pre-drilled grounding holes on both sides of the panel serve as the center point.

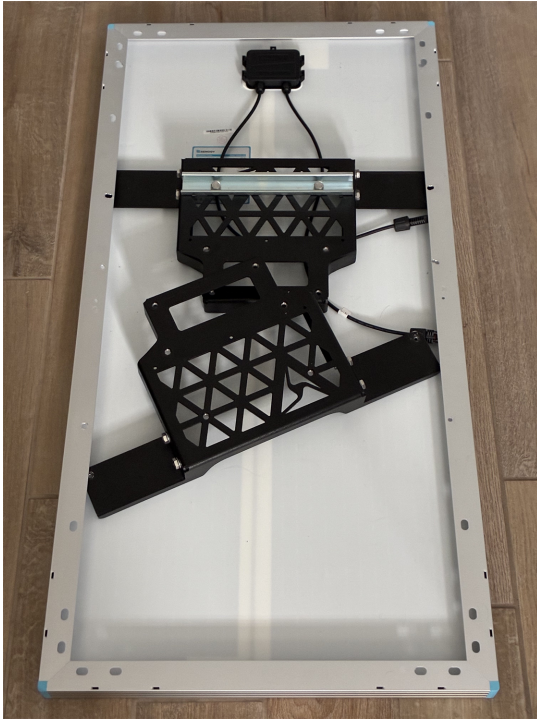


4. Mark where the 4 holes from the solar panel brackets meet with the solar panel frame, to prepare for drilling.

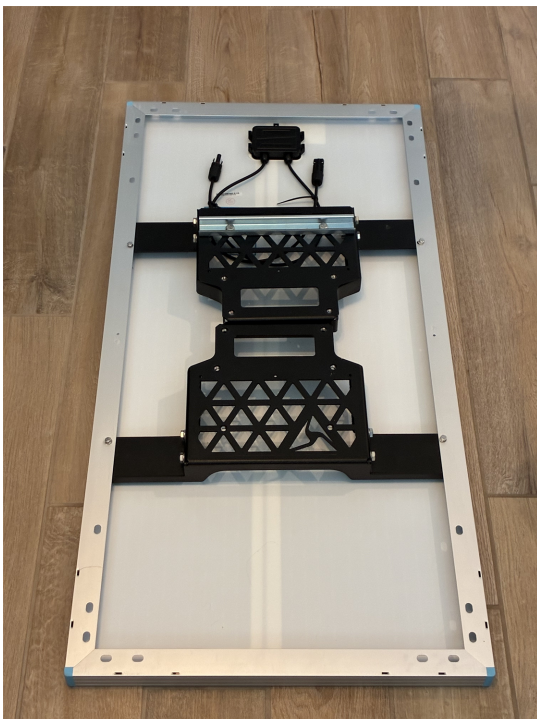


5. Move the brackets aside. Drill the marked holes through the aluminum frame using a 7/32" step drill bit. Avoid drilling into the panel backing or laminate. Clear all metal shavings from the panel and surrounding area.

6. Install the solar panel brackets under the solar panel frame. Slide each bracket in at an angle.



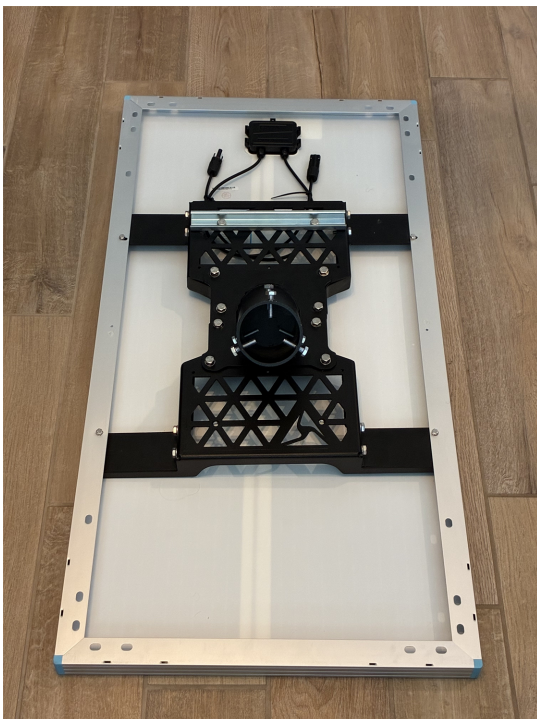
7. Align the mounting holes from the solar panel brackets with the solar panel frame. Secure using the (4) 8 mm hex bolts. Use #10 flat washers if necessary.



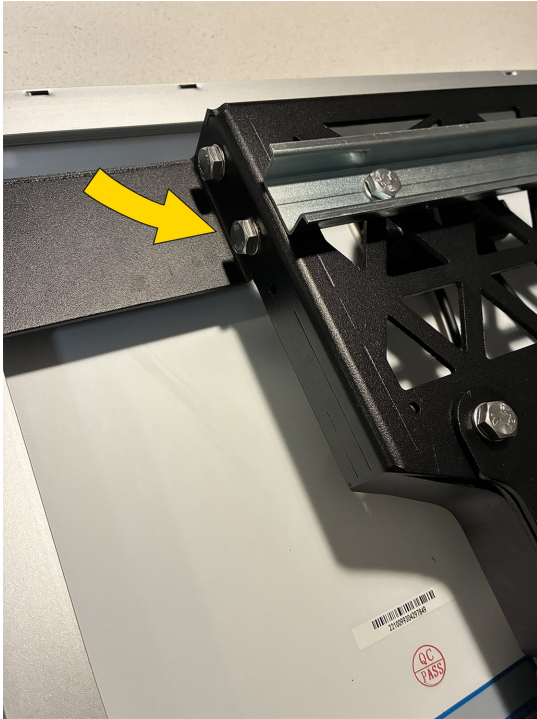
8. Remove the (8) 13 mm hex bolts from the solar panel brackets. Locate the pole end cap and place the end cap on top of the solar panel brackets. Align the mounting holes on the end cap with the holes on the solar panel brackets.



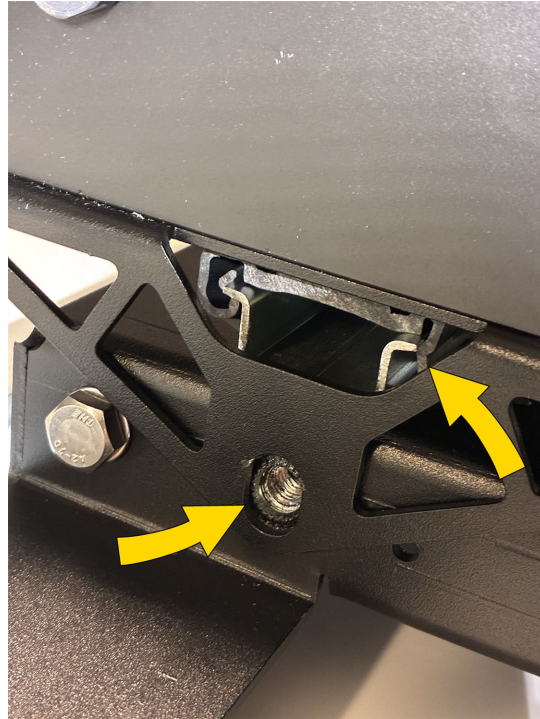
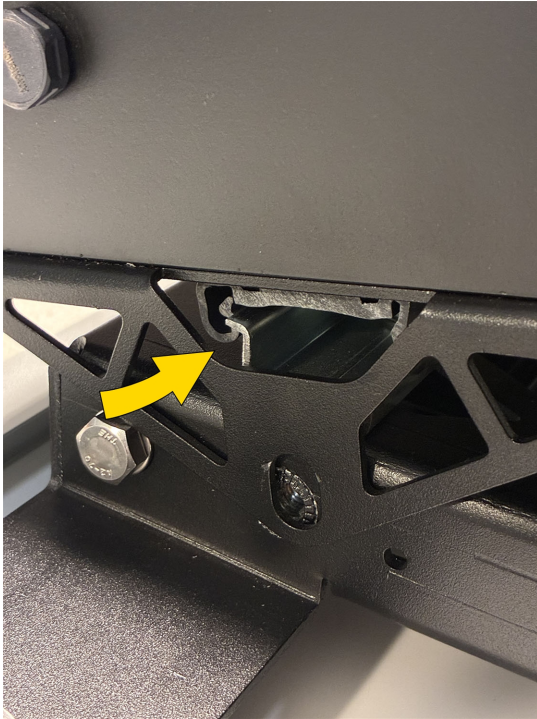
9. Secure the end cap to the solar panel brackets using **8** 13 mm hex bolts.



10. Remove the **2** 13 mm hex bolts inline with the DIN rail (left bolt shown here; other bolt is on the opposite end).



11. Attach and snap the assembled battery enclosure onto the center DIN rail. Start with the top side of the enclosure, hooking it onto the rail, then press down on the front side to snap into place. Ensure both sides of the enclosure are securely attached to the DIN rail and that the enclosure attachment bracket aligns with the previously removed hex bolt holes.



12. Secure the battery enclosure to the solar panel bracket using the **2** 13 mm hex bolts.



13. Remove and discard the caps covering the camera and solar ports on the enclosure.

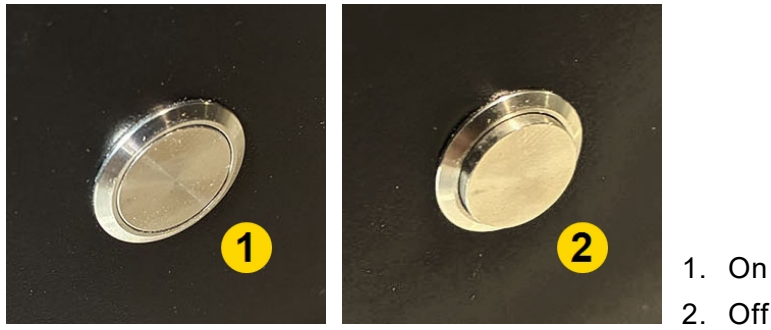
14. Locate the camera power and solar cables. Connect the camera cable first (left), followed by the solar cable (right) to the battery enclosure. Line up the dots on the connectors and plug into the appropriate ports. Firmly twist each cable end to lock into place.



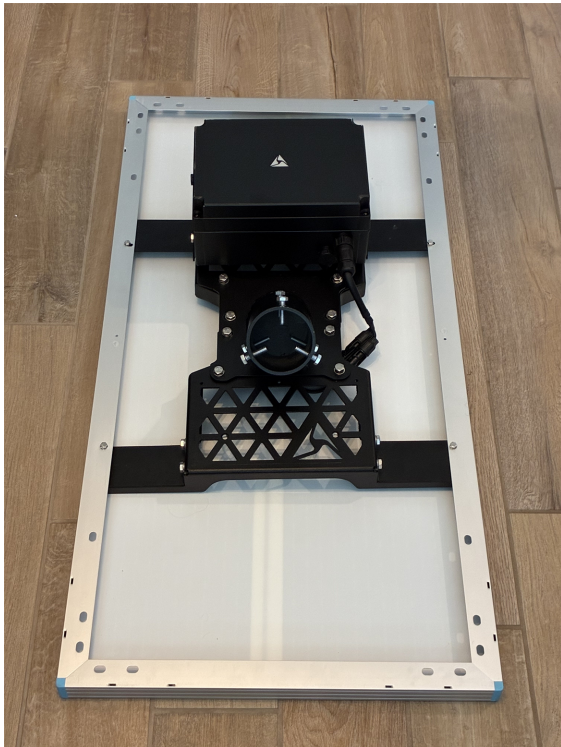
15. Connect the solar panel positive/negative cables to the solar cable enclosure pigtail. Tuck the solar cable under the brackets.



16. Locate the push button on the battery enclosure and push it in flush (left image below) so the battery connects to the charge controller. The image on the right shows the button in the Off state.



Final assembly reference:

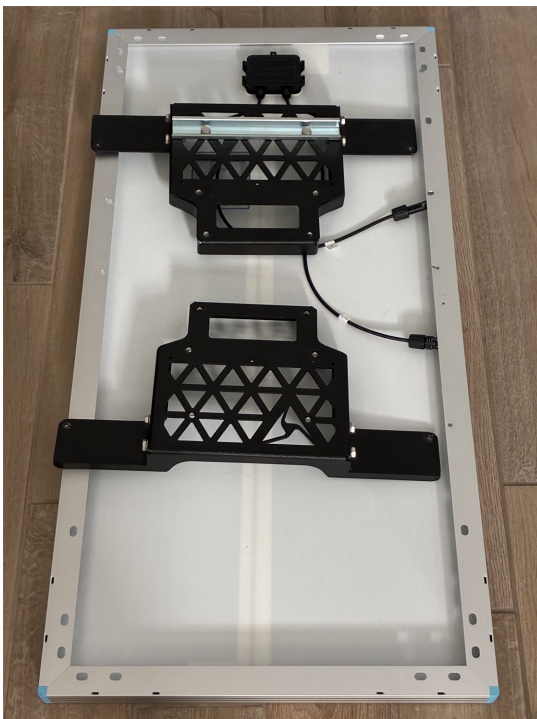


Side-mount-100W

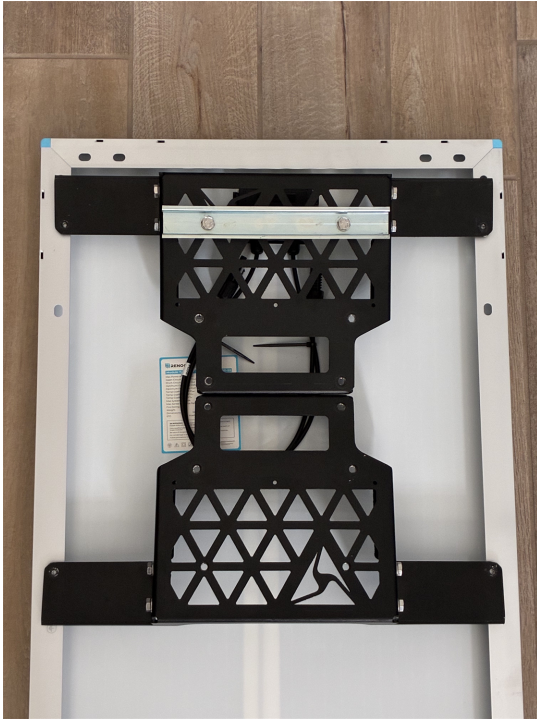
1. Unbox the 100W solar panel from its packaging.



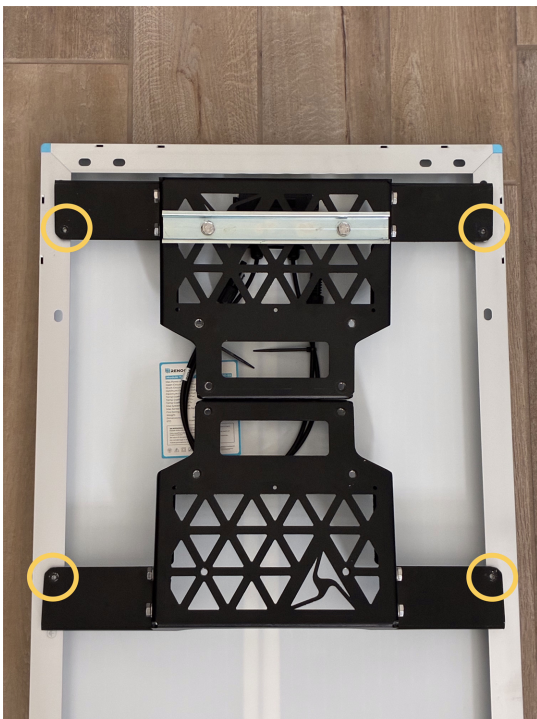
2. Unbox the 2 solar panel bracket pieces. One has a pre-attached DIN rail; leave this rail on. Remove the (2) 8 mm hex bolts from both solar panel brackets (4 bolts total)



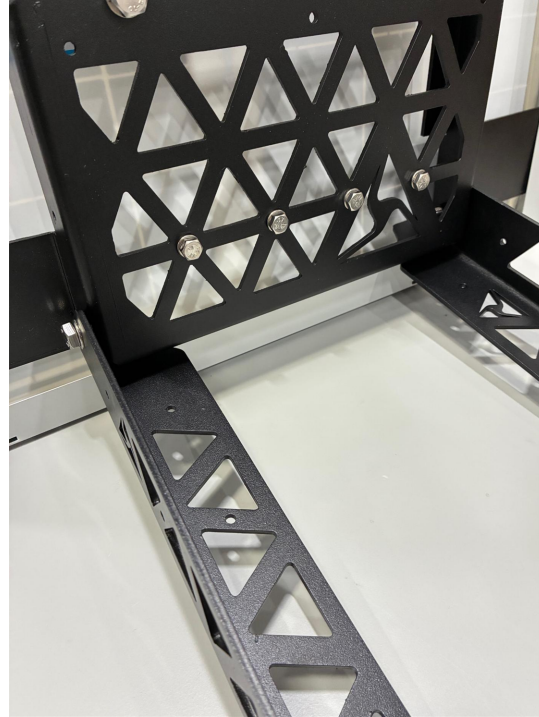
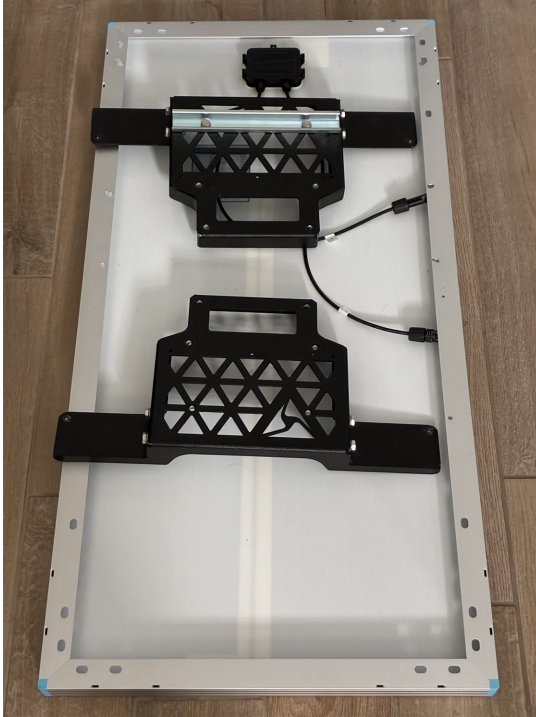
3. Line up both solar panel bracket halves and place them towards the top of the solar panel. Ensure the bracket arms sit flush on the top edge of the solar panel.



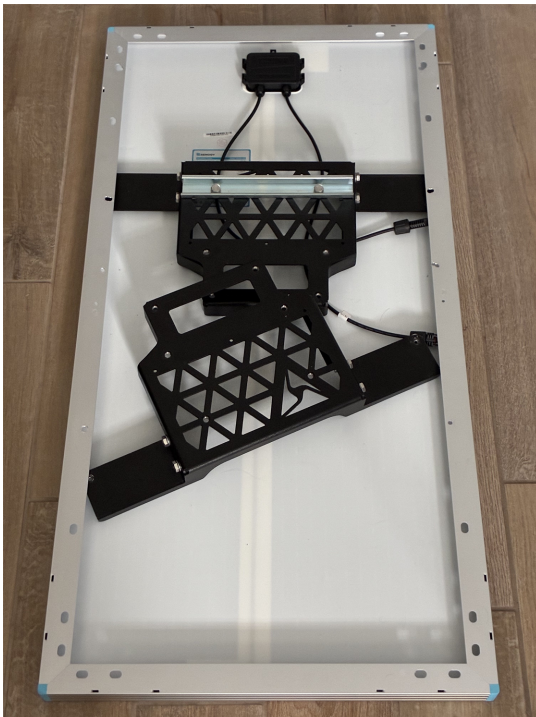
4. Mark where the 4 holes from the solar panel brackets meet with the solar panel frame, to prepare for drilling.



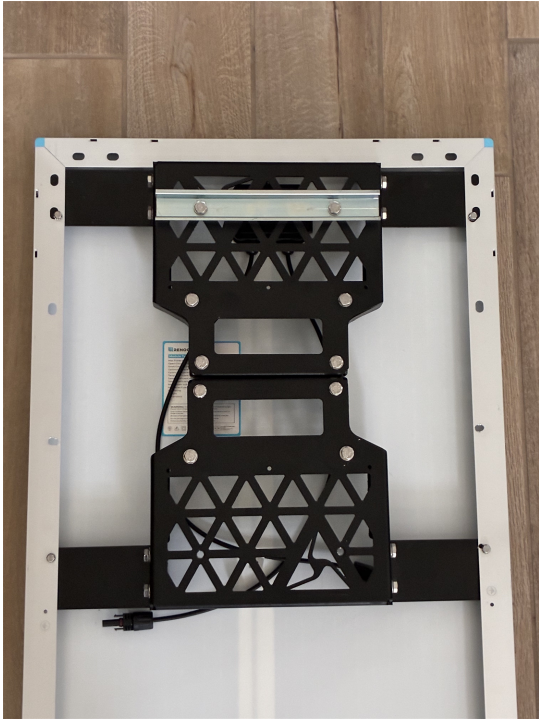
5. Move the brackets aside. Drill the marked holes through the aluminum frame using a 7/32" step drill bit. Avoid drilling into the panel backing or laminate. Clear all metal shavings from the panel and surrounding area.



6. Install the solar panel brackets under the solar panel frame. Slide each bracket in at an angle.



7. Align the mounting holes from the solar panel brackets with the solar panel frame. Secure using the (4) 8 mm hex bolts. Use #10 flat washers if necessary.



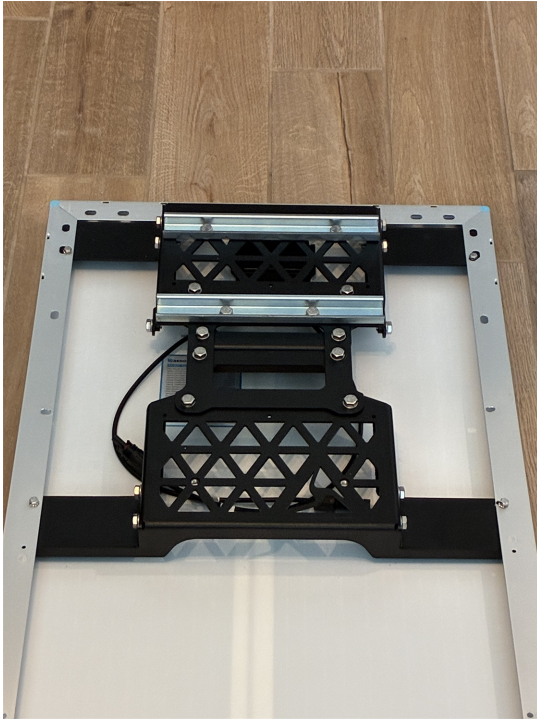
8. Remove the (8) 13 mm hex bolts from the solar panel brackets.



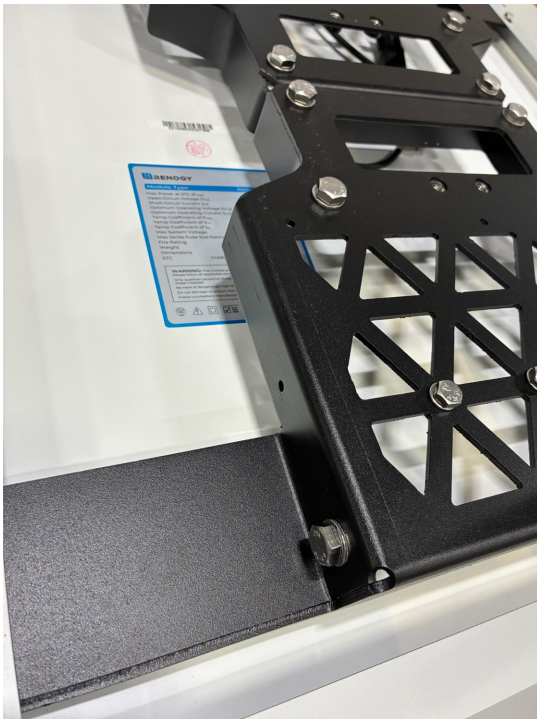
9. Unbox the Side Mount Hardware Kit.



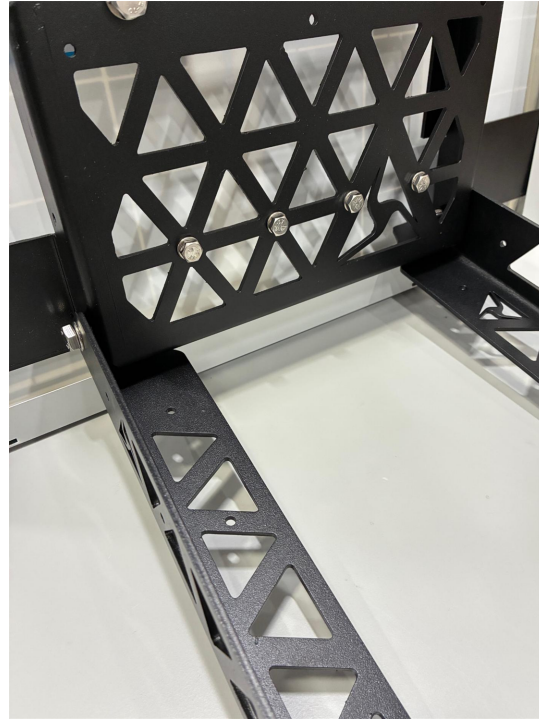
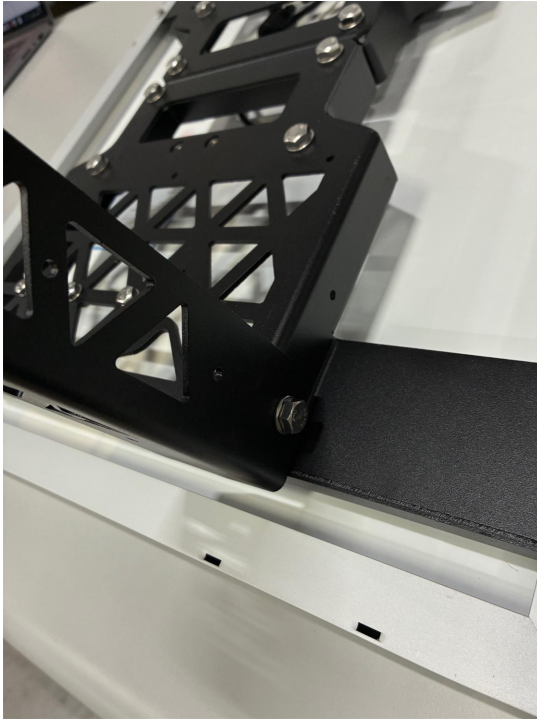
10. Place the square end cap on top of the solar panel brackets. Align the mounting holes on the end cap with the holes on the solar panel brackets. Secure the end cap to the solar panel brackets using 8 13 mm hex bolts.



11. Remove the pre-attached 13 mm hex bolts from the upper and lower sides of the solar panel brackets.



12. Attach the side mount arms to the solar panel bracket using the 13 mm hex bolts. Install the arms on the bracket opposite of the DIN rail.



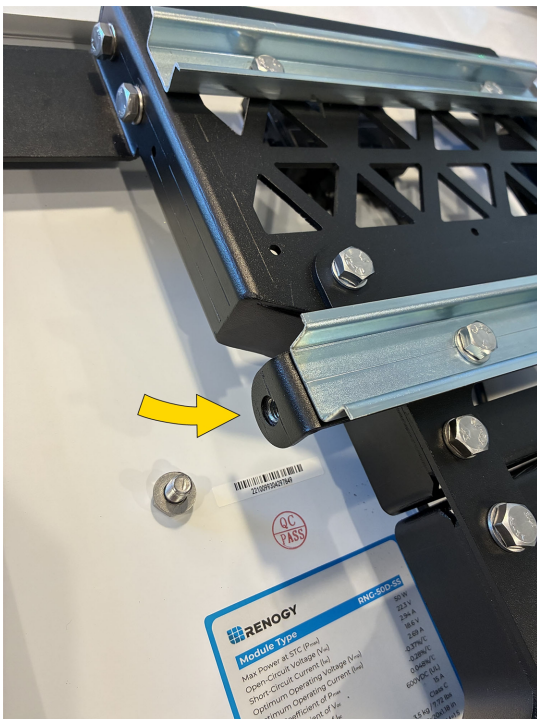
13. Attach one of the pole brackets to the ends of the arms using the pre-installed 13 mm hex bolts.



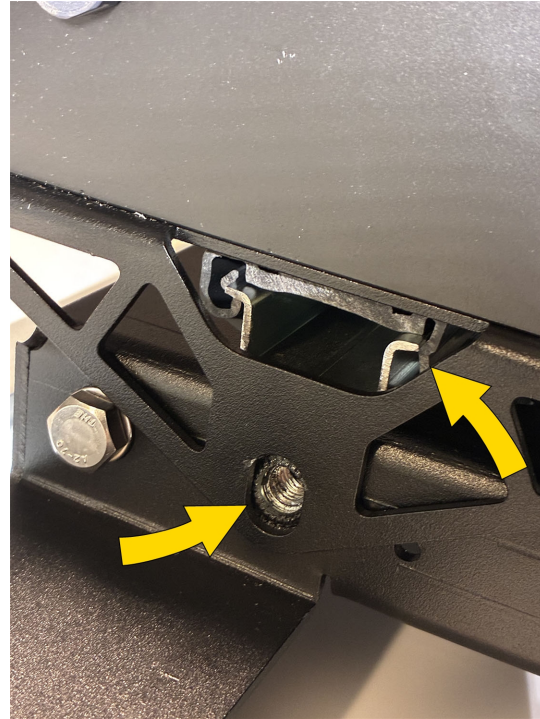
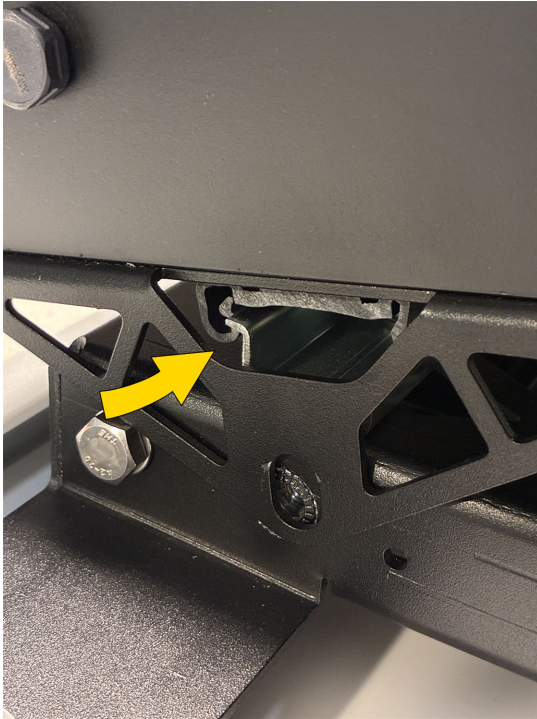
14. Attach the other pole bracket to the top solar bracket using the pre-installed 13 mm hex bolts.



15. Remove the 2 13 mm hex bolts on either end of the middle (second) DIN rail. **2** 13 mm hex bolts on either end of the middle (second) DIN rail.



16. Attach and snap the assembled battery enclosure onto the center DIN rail. Start with the top side of the enclosure, hooking it onto the rail, then press down on the front side to snap into place. Ensure both sides of the enclosure are securely attached to the DIN rail and that the enclosure attachment bracket aligns with the previously removed hex bolt holes.



17. Secure the battery enclosure to the solar panel bracket using the 2 13 mm hex bolts removed previously.



18. Route hose clamps through the slits in both the top and bottom pole brackets to prepare for installation.

Final assembly reference:



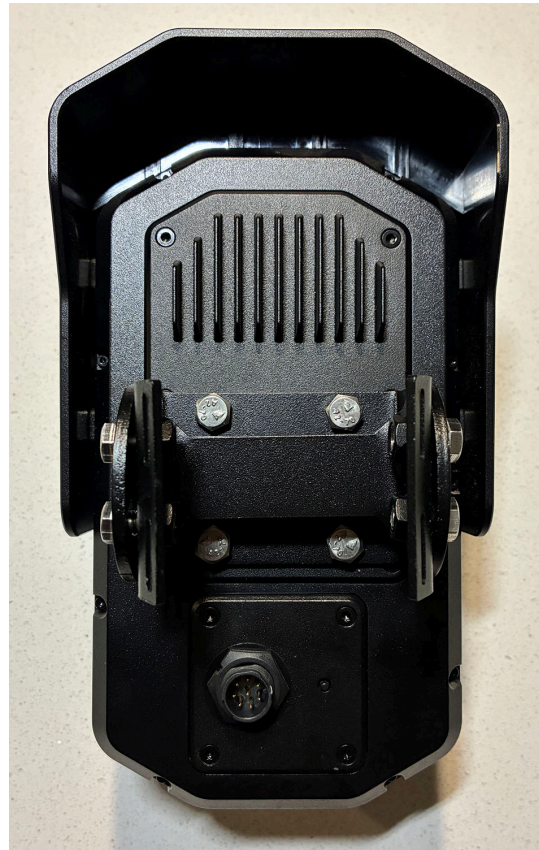
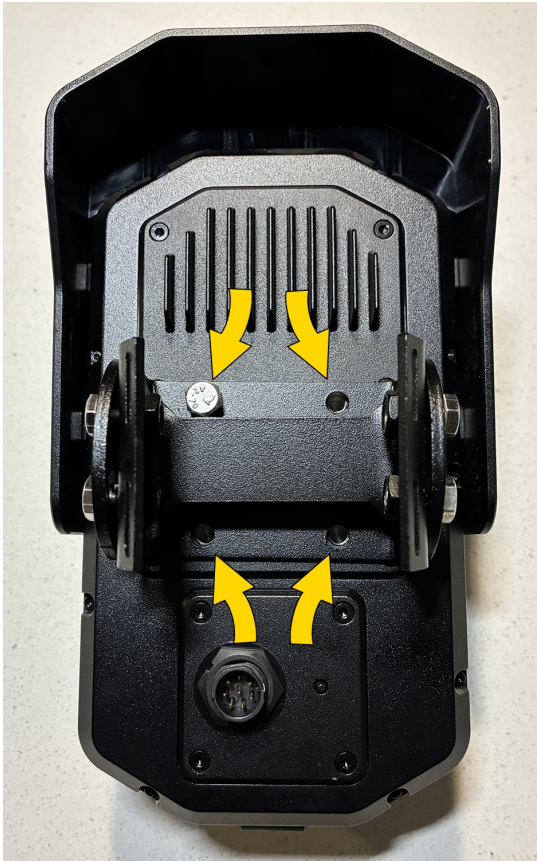
Pole mounting

Pole mount

Note: Included band strap hardware fits 3"–4.5" diameter poles. For larger infrastructure, installers must supply appropriately sized stainless banding/straps and follow local best practices. Supported banding width: $\leq 3/4"$.



1. Using a 10 mm socket, install the mount backplate to the back of the Outpost camera with the 4 M6 screws.



2. Route the hose clamps through the slots in the mount.



3. Secure the Axon Outpost pole mount to the pole using the hose clamps. Tighten clamps firmly but don't over-tighten.
4. To adjust camera tilt, slightly loosen the side pivot fasteners, adjust camera angle, and re-tighten. To adjust pan, slightly loosen hose straps, rotate mount, and re-tighten.

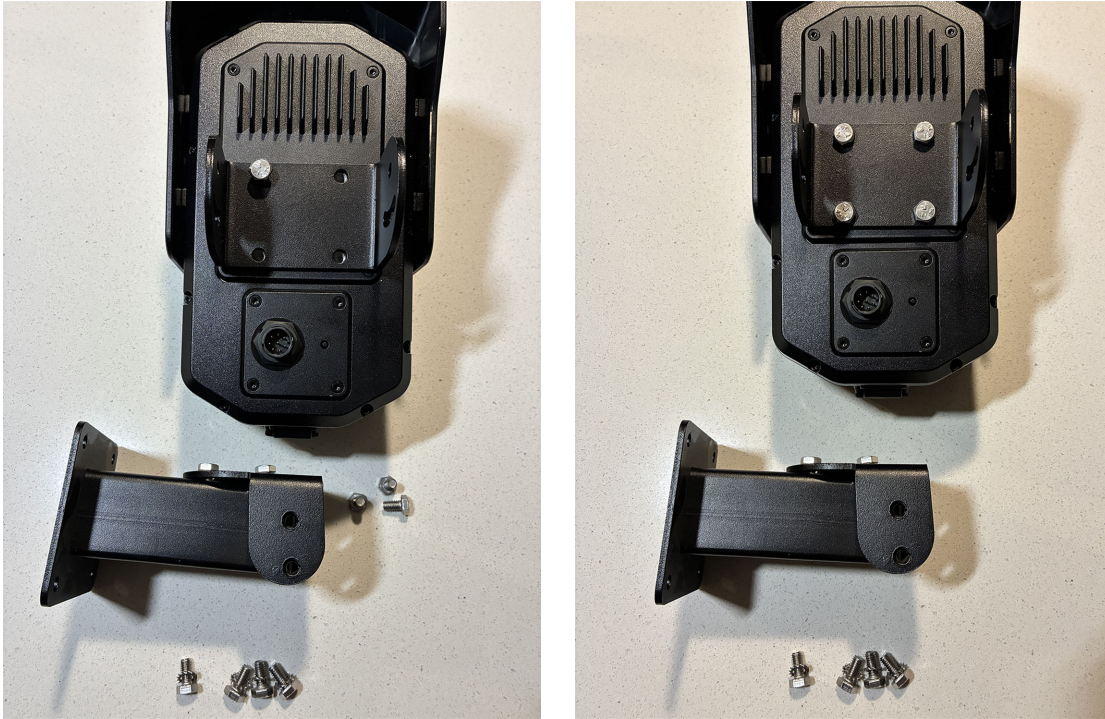
Wall mount



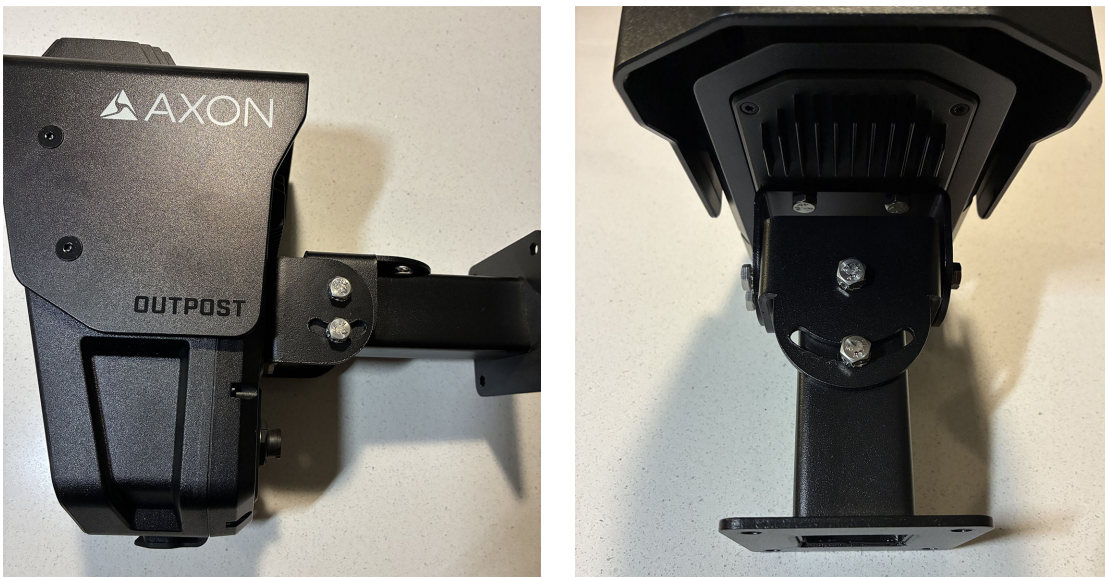
1. Remove the **4** 10 mm hex bolts (two on each side) to separate the camera backplate from the wall mount.



2. Use a 10 mm socket to install the mount backplate on the back of the Axon Outpost camera with the 4 provided M6 screws.



3. Attach the wall-mount arm to a flat surface using lag screws or concrete anchors, depending on surface type.
4. Secure the Outpost camera backplate to the wall bracket using the 10 mm hex bolts. Adjust tilt and pan using the mounting bracket slots, then re-tighten.



Power

1. Plug in and secure the Outpost camera power cable to the power port. Line up the dots on both the camera and the cable connector and press in firmly to lock into place. To disconnect the cable, twist the lock counterclockwise and pull the cable out.
2. When connected to power, Axon Outpost will start up. The LED ring on the front of the camera pulses green ■ ■ ■ ■ to confirm it is receiving power.



AC power connection

All electrical work must follow local and national codes. Axon Outpost requires 12–24 VDC input. Use SKU 102547 AXON OUTPOST - AC POWER SUPPLY - OUTDOOR to convert 120 VAC to the correct DC output.

Class II power supply; no earth/ground connection required

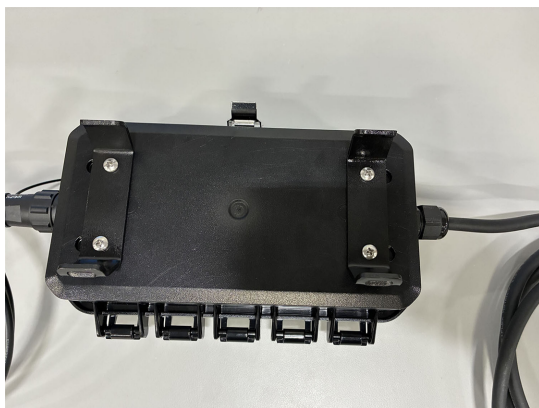


1. To camera
2. Weipu
3. Green LED indicates AC input present
4. Connect to 120 VAC source (per local code)
5. Line (L)
6. Neutral (N)

1. Unbox the Axon Outpost outdoor AC power supply enclosure.



2. Mount the enclosure securely to a pole with a weather-rated 120 VAC source (outlet or pole-mounted junction box) using stainless steel hose clamps or band straps through the rear mounting slots.



3. Ensure enclosure placement allows proper cable routing and visibility of the power status LED.
4. Run an outdoor-rated AC feed from the junction box to the enclosure using approved conduit and fittings.
5. De-energize the circuit.
6. Terminate the line (brown) and neutral (blue) conductors in the pole junction box using approved connectors.



7. Energize the circuit and verify the green status LED outside the enclosure is illuminated, confirming AC power input is present.
8. Connect the camera power cable to the enclosure output connector by aligning the two white alignment dots, then push and twist to lock.



9. Route the DC output cable from the enclosure to the Axon Outpost camera, securing it along the pole with strain relief if needed. Connect the cable to the camera's rear power port.
10. Verify the camera powers on. If not, confirm the enclosure's green LED is illuminated to isolate AC vs. DC-side issues.
11. Tighten all cable glands and confirm weather seals, conduit entries, and strain relief are intact.





Final assembly:



Mobile app setup

Download and install the Axon Outpost Manager (AOM) app from the Apple [app store](#) (Android not yet supported). Get more details and screen shots for the following steps in the [AOM user guide](#).

1. While the Outpost camera is powered on, open the app.
2. Enter the Axon Evidence agency URL and sign in.
3. Scan the QR code on the serial label of the camera.
4. On the **Connect to Outpost** screen, ensure the serial number is accurate.
5. If the bottom right corner of the LED ring is not blinking blue ■■■■, Axon Outpost must be put into Bluetooth pairing mode: press the small button on the back for three seconds and then wait 30 seconds, or until the bottom right corner of the LED ring blinks blue ■■■■, before proceeding.
6. Select **Connect**. The app pairs with the camera, syncs time, and then connects over Wi-Fi. When prompted, select **Join** to connect to the camera's wireless network.
7. Once successfully connected, you will see device information. Select **Continue**.

8. Choose the appropriate network connection type based on setup:
 - a. LTE connection – use built-in cellular modem
 - i. Before proceeding, ensure nothing is plugged into the camera USB-C port.
 - ii. An LTE test will run for several minutes to determine which carrier to use (AT&T Firstnet or Verizon). While the test is running, do not close, minimize, or switch away from the mobile app.
 - iii. If prompted, select **Keep Trying Wi-Fi** while the LTE test is running to keep the mobile device connected to Outpost.
 - iv. The LED ring will pulse magenta  while the carrier test is ongoing.
 - v. Once the LTE test is complete, select the appropriate carrier.
 - vi. Once the modem is provisioned, the LED ring will illuminate blue .
 - b. USB-C modem – use ethernet WAN to external internet source (such as Cradlepoint/network router or switch). Ensure the hard-wired ethernet source is connected via USB-C and that DHCP is enabled on the network before proceeding.
9. Once connected, confirm the agency the device should be registered to and set the device name. After registration, the LED ring will display a rainbow animation .
10. Confirm that the Outpost camera is mounted on infrastructure.
 - a. After confirming, the camera will start a local stream session. While the video stream is open, the LED ring will illuminate white .
 - b. Ensure the camera is appropriately aligned with the lanes to be captured.
 - c. If needed, use the full-screen option to see the video stream on the entire mobile device screen.
 - d. If needed, use the refresh option to refresh the video stream.
11. While the video stream is open, Outpost runs an ALPR plate read check. As vehicles pass in front of the camera, ensure plates are being captured.
 - a. If no plates are read, check the camera lens for obstructions or try to re-position (tilt/pan) the camera.
 - b. If there are no vehicles to check with, select **Continue** and mark **ALPR Passed**.
12. Once the ALPR plate read testing completes, enter the mount measurements of the camera.
13. Press **Finish**. The camera disconnects from the mobile device and restarts. Outpost camera setup is complete.