

POWER ENCLOSURE

2000K

User Manual

Safety, installation, and operating instructions

Important Safety Instructions

Read all safety, installation, and operating instructions before installing or using the solar-powered platform.

1. Hazardous voltage is present inside the power-supply platform. To prevent personal injury, do not disassemble the unit. Service must be performed by qualified maintenance personnel.
2. Do not install the platform in damp, oily, flammable, explosive, or heavily dusty environments.
3. When mains power is connected or the inverter is producing high-voltage AC output, do not touch the wiring.
4. Reversing the positive and negative connections from the solar panels or battery can damage the main unit. Confirm polarity before installation.
5. Before installing or adjusting wiring, disconnect the solar panels and mains supply, and switch off the battery pack.
6. After installation, confirm that every wiring connection is secure. Loose connections can generate dangerous heat.
7. This is an off-grid solar power-supply platform. The load equipment must use this platform as its only AC input. Do not connect it in parallel with another AC source.



WARNING: This operation is hazardous. Complete all required safety preparations before proceeding.



ATTENTION: This operation may damage equipment if performed incorrectly.

2 Product Features and Specifications

2.1 Product Features

- Suitable for indoor and outdoor use.
- Supports external installation of PTZ, dome, and bullet IP cameras and an IP speaker.
- Interior supports an NVR, 4G router, and PoE switch.
- AC input supports up to 110 V and 1.5 kW.
- Two AC output sockets provide up to 110 V and 550 W each.
- Five DC output ports provide up to 255 W combined.
- Built-in AC input switch and normally closed open-door alarm output.
- Temperature-controlled cooling fan activates at 45°C.
- Wall or pole mounting.
- Red and blue warning light supports normally open, normally closed, and alarm-input operation.

2.2 DC Output Ports

OUTPUT	MAX.	APPLICATION	PORTS
52 V DC	2.5 A	PoE switch or PoE NVR	1
36 V DC	2 A	Thermal imaging camera	1
24 V DC	1 A	Wireless bridge	1
12 V DC	2 A	4G router or photoelectric transducer	1
5 V DC	2 A	5 V equipment	1

2.3 Enclosure Specifications

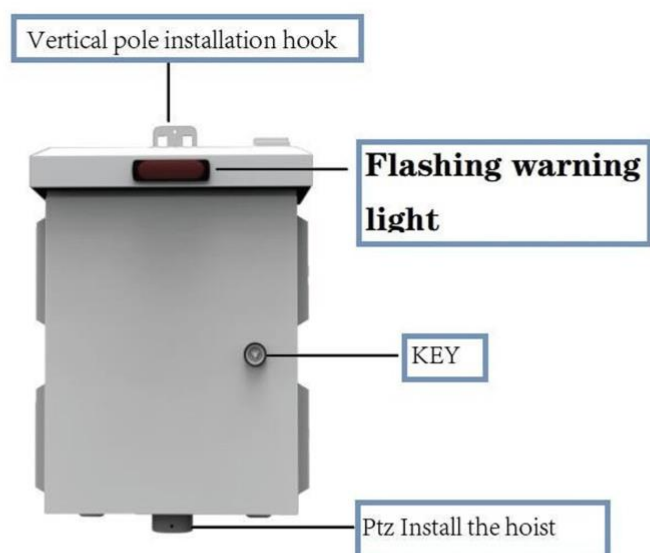
PARAMETER	SPECIFICATION
Material	Aluminum
Weather protection	IP65
Finish	Powder coating
Weight	9 kg (19.8 lb)
Size	19.6 in H × 14 in L × 9 in W

3 Component Introduction

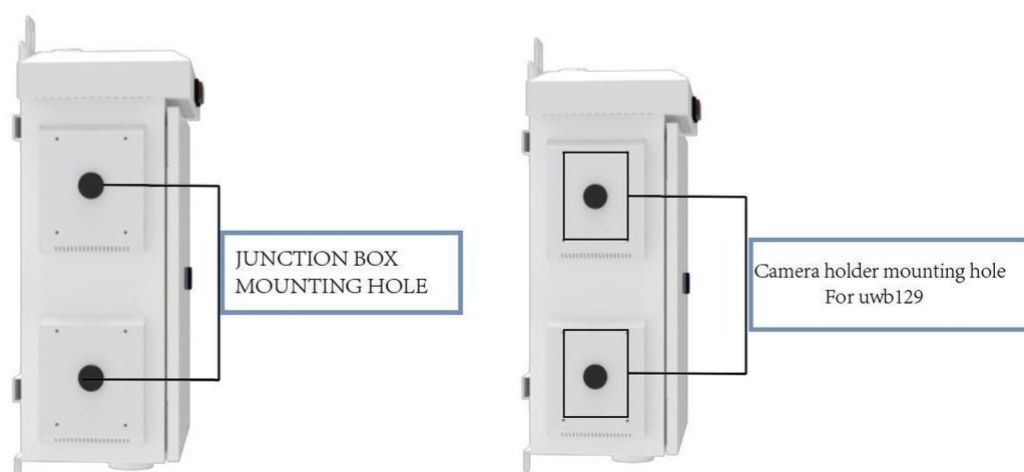
3.1 Front and Left Views

The front and left-side views identify the main exterior mounting points and service features. Keep all camera, junction-box, and pole-mounting interfaces unobstructed during installation.

FRONT:



LEFT:

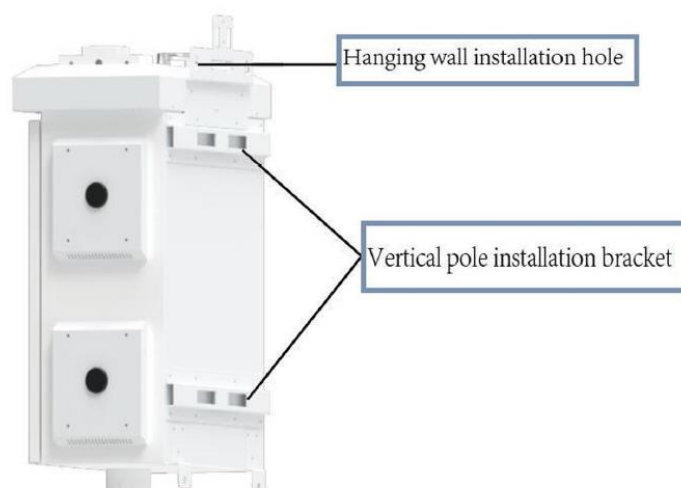


4 Component Introduction

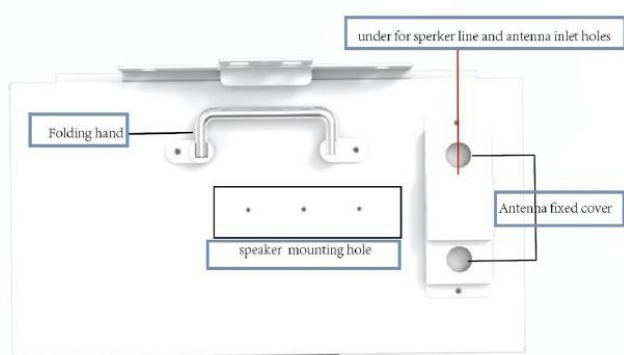
4.1 Right Back Top and Bottom Views

Use these views to locate the hanging-wall installation holes, vertical-pole bracket, junction-box holes, cable-entry points, and the PTZ mounting flange.

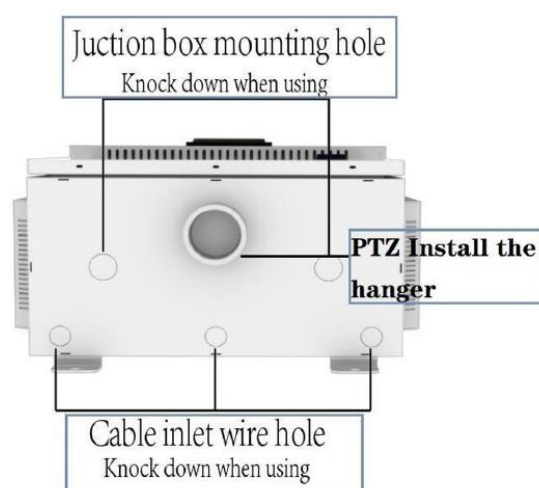
RIGHT AND BACK:



TOP:



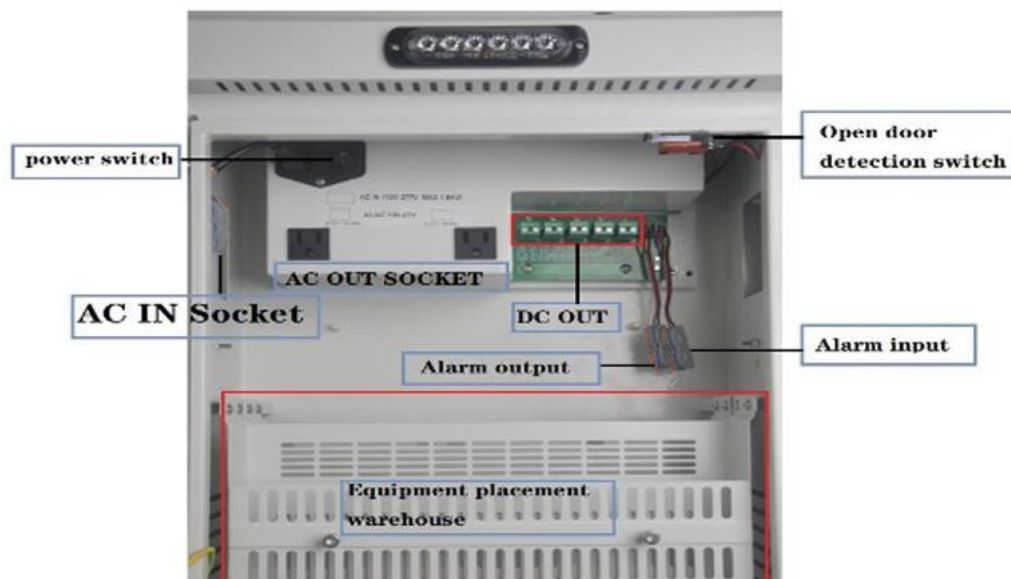
BOTTOM:



Keep cable-entry holes sealed after wiring to maintain the enclosure weather rating. Use only mounting hardware suitable for the supporting structure and expected environmental loads.

5 Internal Introduction

5.1 Power and Equipment Layout



Internal equipment bay, AC distribution, DC outputs, alarm terminals, and cooling controls

Warning: Confirm the neutral, live, and ground conductors before connecting the AC supply. Incorrect connections can damage equipment and create a serious safety hazard.

Important Reminder: The voltage supplied by an AC output matches the voltage applied to the AC input. Verify that every connected device is compatible with the available voltage.

- Disconnect and lock out power before opening or wiring the enclosure.
- Route low-voltage and AC conductors neatly and separately where practical.
- Confirm the door-alarm contact and warning-light mode during commissioning.

6 Equipment Placement

1. Place the input switch, NVR, and other compatible devices directly in the internal equipment basket.
2. After inserting the NVR, use the fastening screws provided on the basket to secure it in place.
3. For an NVR with removable hard drives, remove the motherboard and hard drives as required. Use the supplied copper pillars and screws to mount the motherboard and hard drives directly to the basket hanging plate.

1- As shown in the figure, put the switch, NVR and other devices directly into the basket.

2- After inserting the NVR, use the fastening screws provided on the basket to secure it in place.



3- If you want to place an NVR with two hard drives, as shown in the following figure, remove the motherboard and hard drives of the NVR, and use the copper pillars and screws configured in the attachment to directly fix the motherboard and hard drives on the hanging plate of the basket.



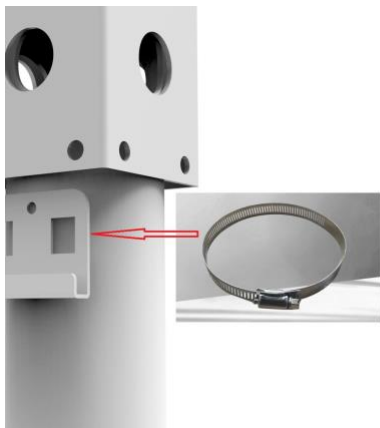
Internal equipment-basket placement and mounting examples

Maintain clear airflow around the temperature-controlled fan and leave enough service loop for all power and network cables.

7 Vertical Pole Installation

Step 1. Use the stainless-steel holding hoops to secure the auxiliary installation hanging plate to the upright pole.

Step 2. Hang the enclosure securely on the auxiliary installation hanging plate.



Step 1 Secure the hanging plate



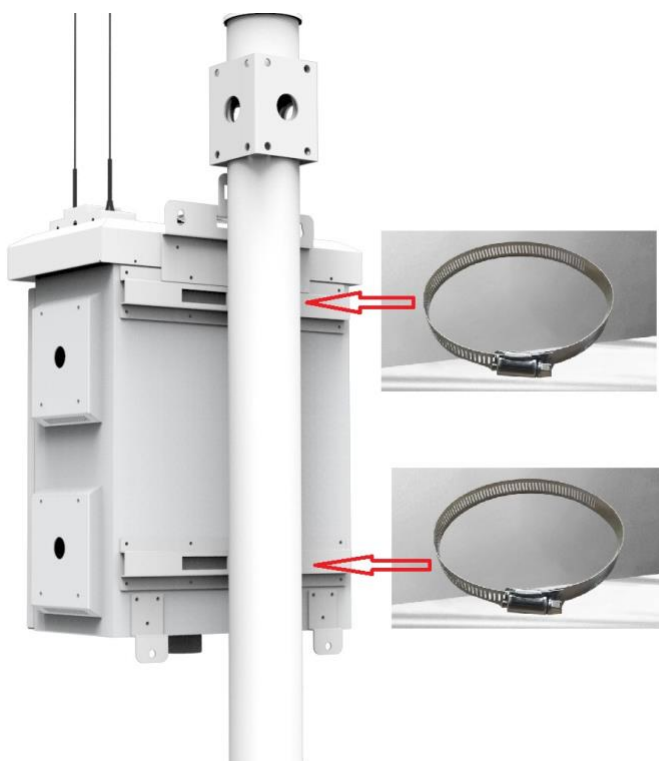
Step 2 Hang the enclosure

Before tightening, confirm that the enclosure is level, the door can open fully, and cable-entry points remain accessible.

8 Complete Installation and Verify Accessories

8.1 Secure the Enclosure

Step 3 Use the remaining holding hoops to secure the enclosure to the pole. Tighten all clamps evenly and confirm that the enclosure is locked firmly in place.



8.2 Packaging List

ITEM	QTY.
1. 3/4 in junction-box adapter	4 pcs
2. PM 4 × 10 screw	3 pcs
3. PM 6 × 12 screw	3 pcs
4. Rubber stopper	4 pcs
5. PM 4 × 16 screw	8 pcs
6. 6 × 60 screw with rubber plug	4 sets
7. 12 × 700 × 1 mm stainless-steel holding hoop	3 pcs
8. Auxiliary installation hook	1 pc
9. CAT6 network cable, 1.6 ft	4 pcs
10. AC power cable, 6 ft	1 pc
11. 22 AWG DC cable, 1 ft	2 pcs
12. DVR motherboard copper pillar and screws	8 pcs
13. DVR hard-drive installation screw	4 pcs
14. EVA antenna retainer	2 pcs

Verify all items before installation. Contact the supplier if any component is missing or damaged.