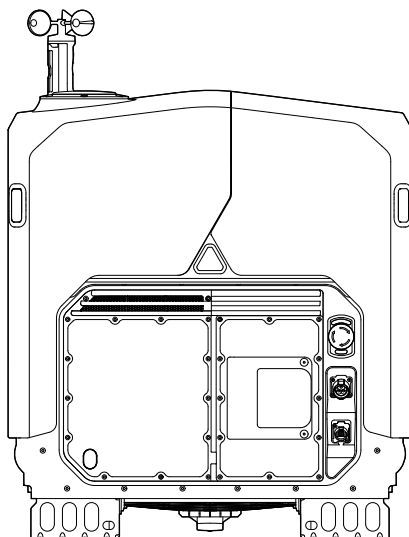


dji DOCK 4

Installation and Setup Manual

v1.0 2026.10





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In the event of divergence among different versions, the English version shall prevail.

Searching for Keywords

Search for keywords such as “battery” and “install” to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

Navigating to a Topic

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

Printing this Document

This document supports high resolution printing.

Using this Manual

-
-  • This product does not meet the standard operating temperature for military grade application (-55° to 125° C/-67° to 257° F), which is required to endure greater environmental variability. Use the product for applications that meet the operating temperature range requirements of that grade.
-

Legend

 Important

 Hints and Tips

 Reference

Read Before Use

DJI™ provides users with tutorial videos and the following documents:

1. *Safety Guidelines*
2. *Quick Installation Guide*
3. *Installation and Setup Manual*
4. *User Manual*
5. *Maintenance Manual*

It is recommended to watch all tutorial videos and read the *Safety Guidelines* before using for the first time. Prepare for dock installation and first flight by reviewing the *Quick Installation Guide*. Refer to this *Installation and Setup Manual* and the *User Manual* for more information.



- Make sure to have the dock installed by a DJI authorized service provider. Installing the dock by yourself may lead to safety risks when using the product. Contact DJI Support to find an authorized service provider.
-

Video Tutorials

Go to the address below or scan the QR code to watch the tutorial videos, which demonstrate how to use the product safely:



<https://enterprise.dji.com/dock-4/video>

Download DJI Enterprise App

Scan the QR code to download the latest version.



- To check the operating system versions supported by the app, visit <https://www.dji.com/downloads/djiapp/dji-enterprise>.
 - The interface and functions of the app may vary as the software version is updated. Actual user experience is based on the software version used.
-

Download DJI Assistant 2

Download and install DJI Assistant™ 2 (Enterprise Series) using the link below:

<https://www.dji.com/downloads/softwares/assistant-dji-2-for-matrice>

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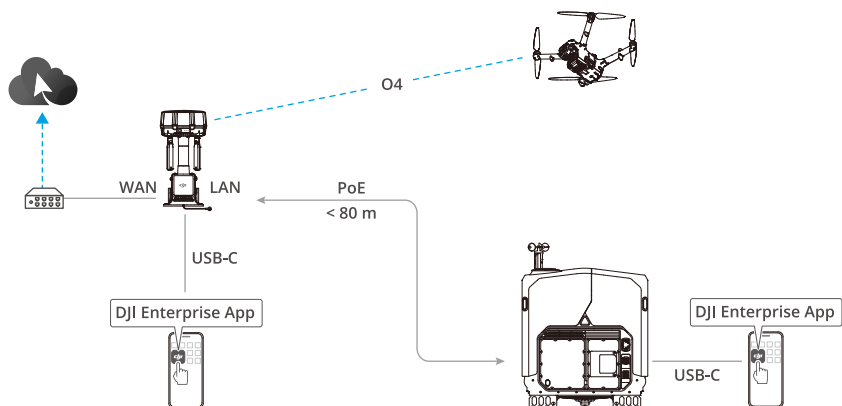
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1 Product Overview

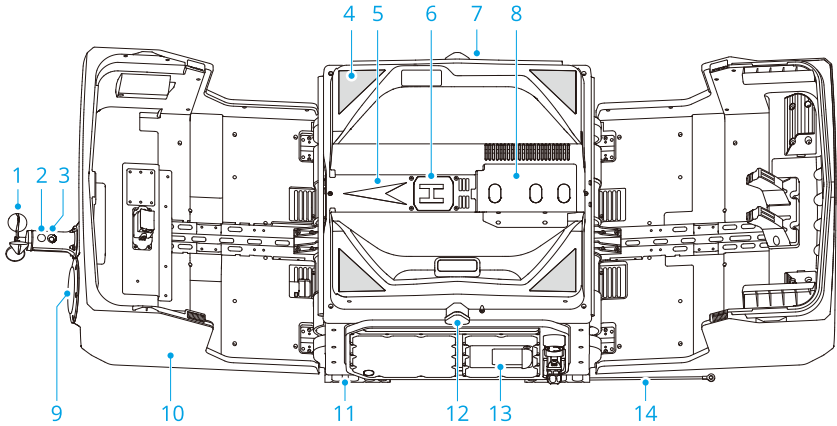
1.1 Device Topology

DJI Dock 4 must be used with the DJI Matrice 5TD aircraft and DJI O4 Ground Station. The device roles and connections are as follows:

- The dock is used for aircraft takeoff, landing, storage, and battery auto-swap.
- The ground station provides video transmission and RTK base station data for the aircraft. The WAN port connects to an external network for cloud communication, while the LAN port connects to the PoE output port of the dock.
- The DJI Enterprise App is used for device deployment and supports one-tap aircraft dispatch, while DJI FlightHub 2 or a third-party cloud platform is used to assign tasks to the aircraft and manage operations.



1.2 Dock



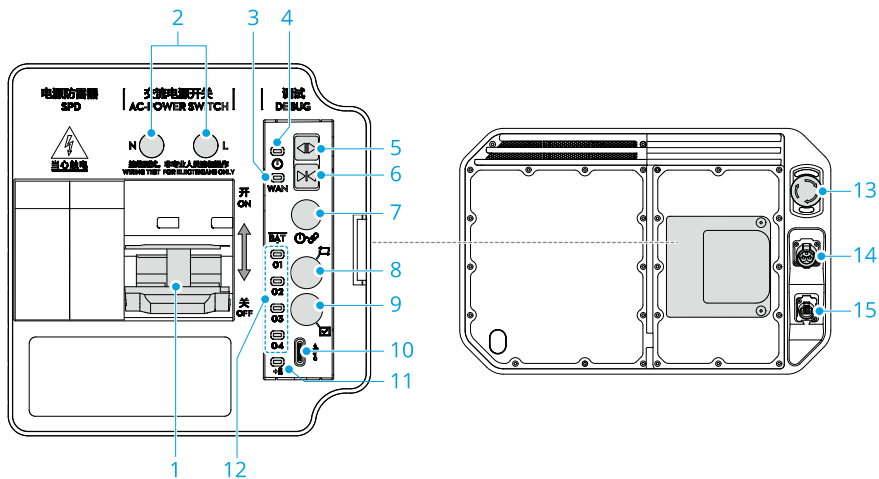
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| 1. Wind Speed Gauge | 8. Battery Swapping Module |
| 2. Dock Camera | 9. Rainfall Gauge |
| 3. Camera Auxiliary Light | 10. Dock Cover |
| 4. Illuminated Positioning Markers | 11. Mounting Base Brackets |
| 5. Aircraft Front Orientation Marker | 12. Dock Status Indicator |
| 6. Landing Pad ^[1] | 13. Electrical Cabinet |
| 7. Drain Pipe Hole (located underneath the dock) | 14. Earth Wire |

[1] The dock comes with a built-in wireless charging module. Make sure that the landing pad surface is clear of any metal objects in order to avoid high temperatures that may damage the landing pad.

Dock Status Indicator and Buzzer Alerts

Normal States		
	Blinks white	The dock is in standby mode.
	Blinks blue Buzzer emits rapid beeps	The ground station is pairing with the aircraft.
	Blinks green	The aircraft is performing a flight task.
 —	Solid blue	The dock/ground station is being updated or undergoing remote or local debugging.
Warning States		
	Blinks red Buzzer emits intermittent beeps	The dock cover is opening or closing, or the aircraft is taking off or landing. ⚠ Keep a safe distance from the dock to avoid injury.
	Blinks red and yellow alternately	The emergency stop button is pressed.

Electrical Cabinet Panel



1. AC Power Switch
Connects or disconnects the AC power supply.
2. Wire Testing Terminals

Used with a multimeter to perform wiring tests.

3. Ground Station Connection Indicator

Indicates the connection status between the dock and the ground station.

4. Power Indicator

Indicates the AC power status.

5. Open Button^[1]

Press and hold to open the dock cover manually.

6. Close Button^[1]

Press and hold to close the dock cover manually.

7. Multifunctional Button

- Press and hold to initiate linking on the ground station.
- When AC power is disconnected, the batteries in the battery compartments automatically power the dock if the battery level is above 10%. Press once, then press and hold the button to disable or enable battery power supply.

8. Battery Install/Remove Selection Button

Press to select the battery compartment for installing or removing a battery. Refer to [Manually Installing and Removing the Battery in the Battery Compartment](#) for more information.

9. Battery Install/Remove Confirmation Button

Press to confirm the battery installation or removal operation. Refer to [Manually Installing and Removing the Battery in the Battery Compartment](#) for more information.

10. USB-C Port

- Connect the dock to a smartphone using a data cable to configure the dock via the DJI Enterprise App.
- Connect the dock to a computer using a USB-C to USB-A data cable to debug the dock via DJI Assistant 2 (Enterprise Series).

11. Battery Installation Indicator

Indicates the battery installation status of the dock.

12. Battery Status Indicator

Indicates the status of the battery in the corresponding battery compartment.

13. Emergency Stop Button

When the emergency stop button is pressed, the moving mechanism of the dock will stop operating. If the aircraft is in flight, it will fly directly to the alternate landing site.

14. AC-IN Port

Connect the power cable to supply AC power to the dock.

15. PoE OUT Port

Connect to the LAN port of the ground station using an Ethernet cable to supply power to the ground station and enable data communication.

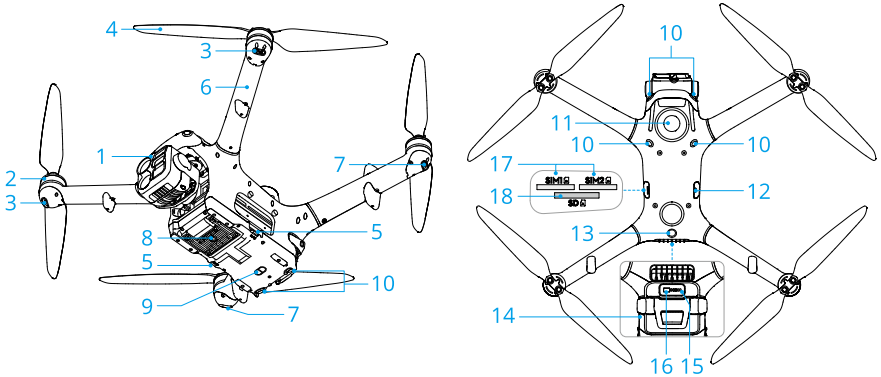
- [1] Make sure that there are no obstacles blocking the dock cover. Keep a safe distance from the dock cover to avoid injury when opening or closing the dock cover. The dock cover cannot be opened or closed while batteries are being installed or removed manually.

Electrical Cabinet Indicators

Power Indicator		
 —	Solid red	The AC power supply is normal.
 —	Solid blue	The battery in the compartment is providing backup power to the dock.
	Off	The dock is not powered on.
Ground Station Connection Indicator		
	Blinks green	The dock and the ground station are connected and can communicate normally.
	Off	The dock is not connected to the ground station.
Battery Status Indicator		
 —	Solid green	Battery status is normal. ^[1]
	Blinks green quickly	The current battery compartment is selected.
 —	Solid blue	The battery in the corresponding compartment is providing backup power to the dock.
 —	Solid red	Battery error.
	Off	No battery in the corresponding compartment.
Battery Installation Indicator		
	Blinks blue quickly	Ready for battery installation.

- [1] Includes both charging and fully charged states. The dock supports charging up to two batteries simultaneously.

1.3 Aircraft



1. Integrated Gimbal Camera
2. Motor
3. Front LEDs
4. Propellers
5. E-Port V3 Low-Speed Port
6. Frame Arm (including Internal Antennas)
7. Aircraft Status Indicators
8. Custom Warning Light / Auxiliary Light
9. Three-Dimensional Infrared Ranging Sensor
10. Vision System

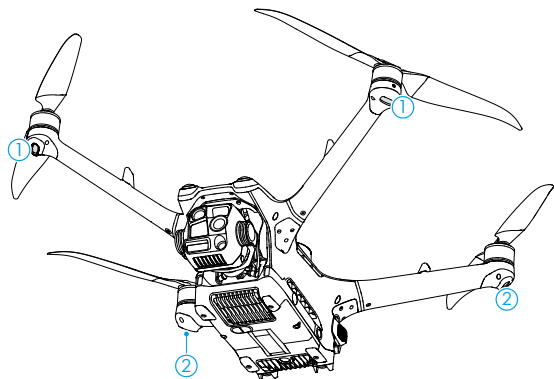
11. LiDAR
12. USB-C Assistant Port (E-Port V3 High-Speed Port)
13. Beacon
14. Intelligent Flight Battery
15. Battery Level LEDs
16. Power Button
17. SIM Card Slot
18. microSD Card Slot

Power on/off: Press once, then press and hold for 2 seconds.

⚠ DO NOT disassemble factory-installed components yourself, except those permitted in this manual; otherwise, the product will not be covered under warranty.

Aircraft Lights

Aircraft Status Indicators



1. Front LEDs

Used to indicate the orientation of the aircraft. When the aircraft is powered on but the motors are not running, the front LEDs glow solid red.

2. Aircraft Status Indicators

Indicate the current aircraft status when the motors are not running.

	Blinks red, yellow, and green alternately	Auto System Check
	Blinks yellow four times	Warming up
	Blinks green slowly	Using Satellite Positioning
	Blinks green twice	Using Vision Positioning
	Blinks yellow slowly	No Satellite or Vision Positioning (ATTI Mode)
Warning States		
	Blinks yellow quickly	Remote controller signal lost Control Signal Lost
	Blinks red slowly	Takeoff failure errors, such as low battery warning ^[1]
	Blinks red quickly	Critical Battery Warning
	Solid red	Critical error
	Blinks red and yellow alternately	Compass Data Error; Calibration Required

After the aircraft motors start, the indicators follow fixed blinking patterns: the front LEDs blink red and green alternately, and the aircraft status indicators blink green.

[1] If the aircraft cannot take off while the status indicators are blinking red slowly, view the specific warnings in DJI FlightHub 2.



- Lighting requirements vary depending on the region. Observe local laws and regulations.
 - To obtain better footage, the front LEDs turn off automatically when taking photos or recording videos if the beacon is set to Auto in DJI FlightHub 2.
-

Custom Warning Light

A custom warning light is integrated into the bottom of the aircraft. It can be enabled in the virtual cockpit of DJI FlightHub 2 with the color and blinking pattern selectable as needed.

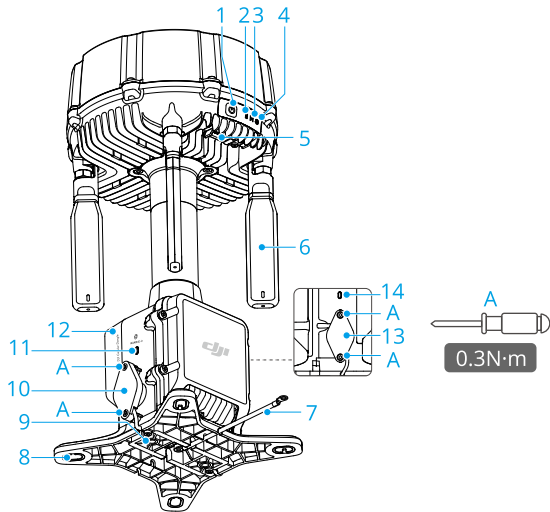
Beacon

The beacon on the aircraft enables you to find the aircraft when flying at night. The beacon can be manually turned on or off in DJI FlightHub 2.



- DO NOT look directly at the beacons when they are in use to avoid damaging your eyes.
-

1.4 Ground Station

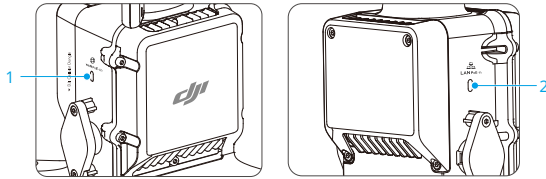


- | | |
|--------------------------------------|---------------------------------|
| 1. Power Button | 8. Slotted Holes |
| 2. Power Indicator | 9. M6 Threaded Holes |
| 3. Mode Indicator | 10. WAN Port ^[1] |
| 4. GNSS Signal Indicator | 11. WAN Port Indicator |
| 5. USB-C Port ^[1] | 12. Cellular Dongle Compartment |
| 6. OcuSync™ Pro Orientation Antennas | 13. LAN Port ^[1] |
| 7. Earth Wire | 14. LAN Port Indicator |

[1] The LAN port must be connected to the PoE output port of the dock. When a port is not in use, make sure to tighten the protective cover screws to protect the product from moisture and dust. The IP67 rating is achieved when the screws are tightened or a connector is inserted.

Ground Station Indicators

WAN/LAN Port Indicators



1. WAN Port Indicator

	Solid green	External network connection is normal.
	Solid blue	External network connection error. Ensure the Ethernet cable is securely connected to the WAN port, and the external network is functioning properly.
	Blinks red quickly (turns solid after 10 seconds)	Insufficient PoE power input. Check if the PoE power supply meets the requirements.
	Solid red	Neither the PoE power supply nor the external network is detected. Check the PoE power supply and the external network connection.

2. LAN Port Indicator

	Solid green	The connection to the dock is normal.
	Solid blue	Dock connection error. Ensure the Ethernet cable is securely connected to the LAN port, and the connection to the dock is functioning properly.
	Blinks red quickly (turns solid after 10 seconds)	Insufficient PoE power input. Check that the dock is working properly.
	Solid red	Neither the PoE power supply nor the dock is detected. Check the PoE power supply and the dock connection.

Power Indicator

When powered by the dock through PoE, the power indicator turns blue . When powered only by the internal battery, the power indicator is as follows.

	> 60% (Green)
	20%–60% (Yellow)
	< 20% (Red)

- 
 - When powered by the dock through PoE, the battery voltage of the device remains at 7.4 V.
 - When the battery level is low, the buzzer emits continuous beeps.
 - When charging via the USB-C port, the power indicator blinks quickly when the charging power is sufficient, and blinks slowly when it is insufficient.

Mode Indicator

M	Status
Solid purple	Connected to the aircraft.
Blinks purple	Not connected to the aircraft.

GNSS Signal Indicator

	Satellites Found (N610BS)	Satellites Found (N610BS-BD)
	> 30	> 15
	10–30	5–15
 [1]	< 10	< 5

[1] Blinks slowly: the device is not activated.

Others

Status LED	Buzzer	Device Status
 Blink simultaneously	/	Firmware updating
 Blink alternately	Beeps continuously	Linking

Status LED	Buzzer	Device Status
 Solid red simultaneously	Beeps continuously	Power supply abnormal. The PoE power supply currently in use is not supported.

2 Construction Safety

To protect personnel and equipment, make sure to follow the labels on the devices and the safety precautions in this manual when installing, operating, maintaining, and servicing the devices.

2.1 Notices



- Installation, configuration, maintenance, troubleshooting, and repair of the product must be carried out by authorized technicians in compliance with local regulations.
- Personnel responsible for installation, configuration, and maintenance must meet the following conditions: be familiar with network setup and device deployment; understand the potential sources of danger during installation, configuration, and maintenance and the corresponding solutions; and have completed safety training and mastered the correct operating methods.
- Appropriate qualifications are required for the following operations:
 - Device installation, maintenance, and removal at heights: Special Operation Certificate for Installation, Maintenance, and Removal when Working at Heights
 - Load-bearing frame erection and tower climbing/erection: Special Operation Certificate for Work at Heights (Scaffolding and Erection)
 - Mains power electrical work: Special Operation Certificate for Low-Voltage Electrician Operations
 - Welding operations: Special Operation Certificate for Fusion Welding and Thermal Cutting Operations
- When installing on a communication tower or in other special environments, obtain prior permission from the property owner or the management entity, and comply with all applicable local regulations.



- Make sure to perform operations such as installation, configuration, and maintenance in the order of the steps in the manual.
- DO NOT install the devices at night.
- Installation of the devices must be carried out by at least two people working together.



- When operating at heights, always wear protective gear and a safety rope. Make sure the end of the safety rope is securely anchored and the work surface is stable. Check that the auxiliary equipment used for the work is stable and in good condition. Pay attention to personal safety.
- Dedicated personal protective equipment must be used during installation, configuration, and repair, such as a safety helmet, goggles, insulated gloves, and insulated shoes.
- Wear a dust mask and goggles when drilling holes to prevent dust from entering the throat or falling into the eyes.
- Pay attention to personal safety when using power tools.



- The devices must be properly earthed. When installing a device, the protective earth wire must be connected before any other cables. When removing a device, all other cables must be removed before the protective earth wire.
- DO NOT operate a device when the protective earth wire is not installed.
- DO NOT damage the protective earth wire.

2.2 Warning



- DO NOT install, configure, or maintain the devices (including but not limited to installing the devices, connecting the cables, or performing outdoor work at a height) in severe weather such as thunderstorms, snowfall, or winds of 8 m/s or above.



- When high-voltage operations are involved, always cut off the power first. Working on live equipment is strictly prohibited.
- DO NOT wear conductive objects (such as watches, rings, necklaces or other metals) to install, configure or maintain the dock in order to avoid electric shocks or burns.
- Measure the voltage on the contact points with a multimeter and make sure there is no risk of electric shock before touching any conductor surface or terminal (such as the terminals of the AC power input). Working on live equipment during installation is strictly prohibited.
- Make sure to turn off the upstream power switch, then use a multimeter or a voltage tester to conduct an electrical test at the end of the power cable before installing or removing the power cable.
- Make sure the handles of the tools in use are insulated, or use insulated tools, to avoid electric shocks.



- In the event of a fire, immediately evacuate the building or the device installation area and press the fire alarm or call the fire department. DO NOT re-enter a burning building or device installation area under any circumstances.



- When carrying heavy objects, make sure to prepare to bear the weight to avoid sprains or being crushed by heavy objects.
- Pay attention to personal safety when hoisting is used.



- Make sure to keep away from the dock when it is in operation, so as not to be injured by moving mechanisms or rotating propellers.

3 Construction Preparation

Make sure to read this chapter carefully, select a site for the devices according to the requirements. When deploying the dock and the ground station, both deployment requirements must be satisfied. Failure to select a site according to the requirements may lead to device malfunction, reduced operational stability, a shortened service life, unsatisfactory performance, safety hazards, property damage, or casualties.

3.1 Environmental Requirements

- The altitude of the installation site must not be higher than 5000 m.
- The annual temperature range of the installation site must be between -40° to 50° C (-40° to 122° F). Temperatures outside this range will cause the devices to stop working. ^[1]
- Choose a location with little wind and sand to install the devices. Make sure the gust wind speed is not greater than 12 m/s and the airflow is stable when the aircraft takes off and lands, so that the devices can operate normally.
- Make sure there are no obvious biological destructive factors such as rodent infestation and termites at the installation site.
- DO NOT install the devices near dangerous sources without permission, such as gas stations, oil depots, and dangerous chemical warehouses.
- DO NOT install the devices at a site with flammable materials, such as a site where debris accumulates easily or where there are willow and poplar catkins. **RISK OF FIRE:** Install the dock on a concrete or other non-combustible surface only.
- Avoid installing the devices in lightning strike areas.
- Avoid installing the devices at sites that are prone to disasters, such as ground subsidence, debris flows, landslides, or burial by snow.
- Avoid installing the devices downwind of chemical plants or septic tanks to prevent pollutants from corroding the devices. If the devices are deployed near a coastline, avoid installing them in areas where they may be immersed in or splashed by seawater, to prevent seawater from corroding the devices and their metal components.
- Avoid installing the devices in a location exposed to strobe lights or uncontrolled artificial light sources, such as where there are a large number of reflective objects on the ground or ground lighting fixtures. Otherwise, it will interfere with the vision system of the aircraft, affecting its landing and flight stability.

- Keep away from sites with strong electromagnetic wave interference, such as radar stations, microwave stations, high-power video transmission devices, and drone jamming equipment. The distance must be more than 200 m.
- Keep away from iron ore and large steel structure buildings as much as possible to avoid interference with the aircraft compass.
- Keep away from strong vibration sources and strong noise areas as much as possible. Otherwise, it will interfere with the environmental sensors of the dock, and can easily lead to a decrease in the operating life of the whole device.
- Consider the future environmental changes at the installation site, and avoid areas with large-scale construction plans or significant environmental changes in the future, including but not limited to the growth of weeds and trees, new buildings, bridges, communication base stations, and high-voltage towers. If there is any change, a new survey is required.
- When deploying at a site where weeds grow, the height of the dock legs must be higher than the weeds.
- Consider whether the operation area is near or in a Restricted Zone. A GEO Zone Unlocking License for the dock can be applied for in advance and synced to the aircraft during installation and configuration.
- The dock and the aircraft produce a certain amount of noise when operating. Consider the impact on nearby residents when selecting the installation site of the dock. DO NOT install the dock near residential areas. If this is unavoidable, the silent mode of the dock can be enabled.

[1] When the environment temperature is below -20° C (-4° F), the dock will warm the aircraft so that the aircraft can take off, but the aircraft performance will decrease.



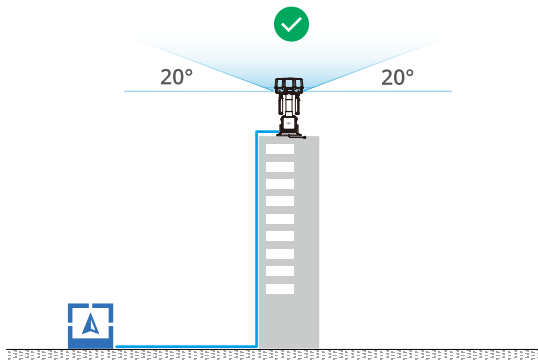
- Historical weather data can be queried on meteorological websites.
 - When the dock cover and the electrical cabinet door are both closed, the dock has a protection rating of IP56 and can also work in an environment with 93% humidity.
 - The normal transportation and storage temperature range of the dock is between -40° to 50° C (-40° to 122° F). For a short period of time (24 hours), the maximum transportation temperature can reach 70° C (158° F).
 - When the dock is operating in silent mode, it has an A-weighted sound pressure level of less than 60 dB(A) at a horizontal distance of 1 m from the dock and a height of 1.2 m. (Based on anechoic chamber test data with a background noise of 15 dB(A).)
-

3.2 Confirming the Installation Location

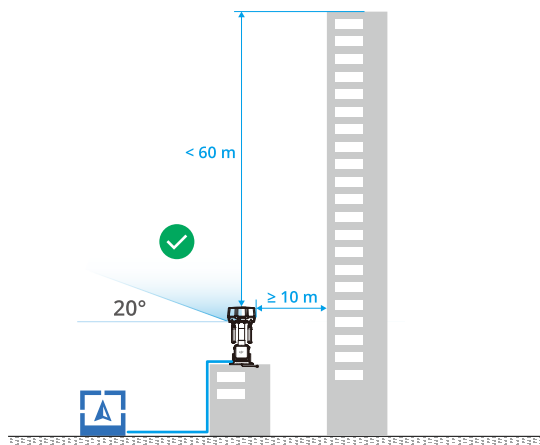
Ground Station Installation Location

Recommended Location

- Install the ground station in an open, unobstructed high location. It is recommended to select the highest point of a building and make sure there are no obstacles above the 20° elevation angle to ensure the video transmission and RTK signal quality, and to cover the aircraft operating radius.
- Make sure there is no interference from communication equipment or obstruction from metal objects nearby.
- Provide physical access control measures to prevent unauthorized personnel from entering and operating the device.



Best Installation Location



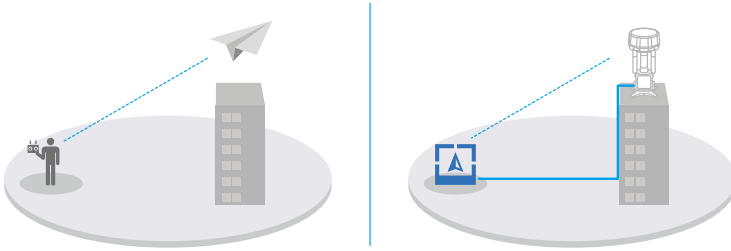
Second-Best Installation Location

Before installation, use the aircraft to conduct a site evaluation and simulated flight operation. Ensure the location meets the deployment requirements.

Site Evaluation

A DJI Matrice 4 Series or DJI Matrice 4D Series aircraft with a DJI RC Plus 2 Enterprise remote controller can be used to check the satellite signal. Before the site evaluation, update the aircraft and the remote controller to the latest firmware version.

1. Power on the remote controller and the aircraft, and make sure they are linked.
2. Run the DJI Pilot 2 app, tap the  icon on the home screen, select **Dock Site Evaluation > New > Dock 4 (O4 Ground Station)**, and create a site evaluation task according to the app instructions.
3. Hold the remote controller and move to the deployment position of the dock, keeping the remote controller at the same height as the dock cover.
4. Fly the aircraft to the planned installation position of the ground station and hover. The system will automatically complete video transmission quality and GNSS signal detection.
5. Once detection is complete, view the signal evaluation results for the current candidate location. Tap **Return** to view the evaluation summary and coordinate information of all candidate locations.

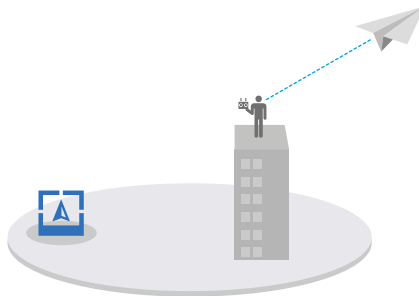


- It is recommended to test multiple candidate locations and then compare the results. Make sure the signal evaluation result is at least "Fair", and give priority to locations with an "Excellent" result.

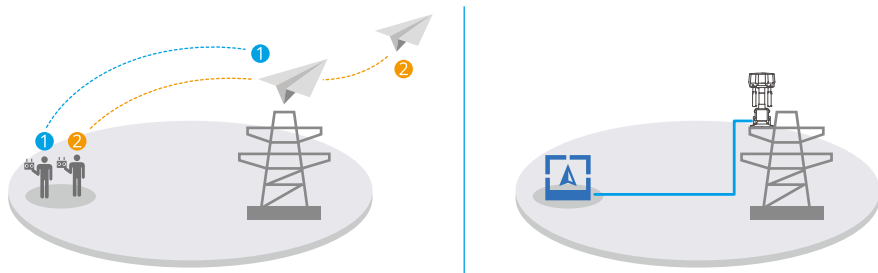
Performing a Flight Route Test

After signal detection is complete, it is recommended to conduct a flight test at the candidate site to verify communication coverage of the target work area. The test flight should cover the entire intended work area.

- If the site is accessible, go to the planned installation location and hold the remote controller at the intended installation height. Take off and fly to the farthest point of the intended work area, observing video transmission and GNSS signal changes throughout the flight. Record the locations where the signal result is "Poor", so that an additional ground station can be added later and the roaming feature enabled.



- For planned installation sites that are difficult to approach for the pilot, such as a rooftop or tower, use the Airborne Relay function of the DJI Matrice 4D Series aircraft. Hover the relay aircraft ① at the planned installation altitude, and conduct the flight test with the main aircraft ② to evaluate communication coverage.



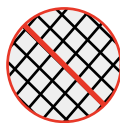
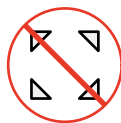
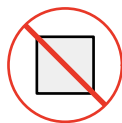
After completing the flight route test and confirming the installation location, it is recommended to mark the installation position of the ground station at the installation site.

Dock Installation Location

Recommended Location

The dock installation location must meet the following requirements:

- The dock and the ground station must maintain an unobstructed line of sight. Cabling distance must be less than 80 m, and straight-line distance must be less than 40 m to ensure video transmission quality.
- Make sure there are no light-colored objects within 10 m of the dock that resemble the landing pad in shape or visual markings, such as white rectangular objects, white triangular objects, H-shaped patterns, or grid patterns, to avoid false detection when the aircraft lands.

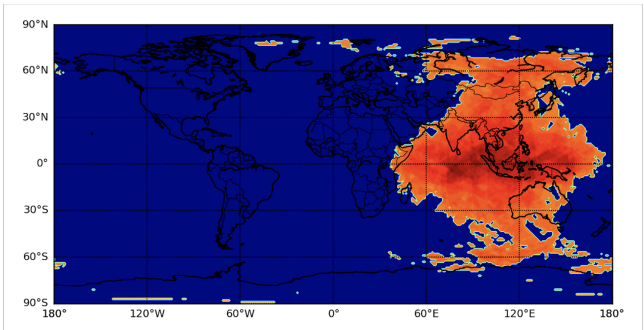


- Make sure there are no obvious reflective objects near the dock installation location to avoid multipath effects caused by reflections, which can affect the aircraft video transmission system and the GNSS system. Reflective objects include, but are not limited to, building glass curtain walls, metal roofs, large rooftop solar panels, and rooftop metal billboards.

The dock supports the following deployment methods:

- [Unobstructed Deployment](#)
- [Single-Side Building Deployment](#)

Unobstructed deployment is recommended. The eligibility of single-side building deployment depends on the service area of the satellite positioning system, which currently covers most parts of the Asia Pacific region (red zone), as shown in the coverage map below.



Supported dock deployment methods depend on the aircraft model, the operation area, and the site evaluation result of the ground station.

When the site evaluation result is "Excellent", the dock supports unobstructed deployment and single-side building deployment.

When the site evaluation result is "Fair", the supported dock deployment methods are as follows:

Aircraft Model and Region	Supported Deployment Methods
multi-GNSS model (red zone)	All deployment methods
multi-GNSS model (blue zone)	Unobstructed deployment only

-  • During actual deployment, specific requirements for distance, height, and environment in the corresponding deployment method section must also be met. The results displayed in the DJI Pilot 2 App during the site evaluation shall prevail. When the evaluation result is "Poor", dock deployment is not supported.
- To perform multi-dock tasks, ensure there are no obstacles above a 20° elevation angle at the dock deployment location. Whether the dock supports multi-dock task plans is subject to the app prompt when setting the entry and exit routes. For detailed requirements, refer to the [Multi-Dock Task Plans](#) section.

Unobstructed Deployment

It is recommended to install the dock in a place without obvious signal obstruction, such as in an open area or on a rooftop. Make sure there is no obvious signal obstruction

within the range of 20° from the ground elevation angle to ensure the signal quality and stability of the RTK module.

If there is an obstacle, the minimum distance between the dock and the obstacle needs to meet the following requirements:

$d \geq h/0.36$

d: The minimum distance between the dock and the obstacle

h: The obstacle height (the height of the obstacle can be measured by operating the aircraft)

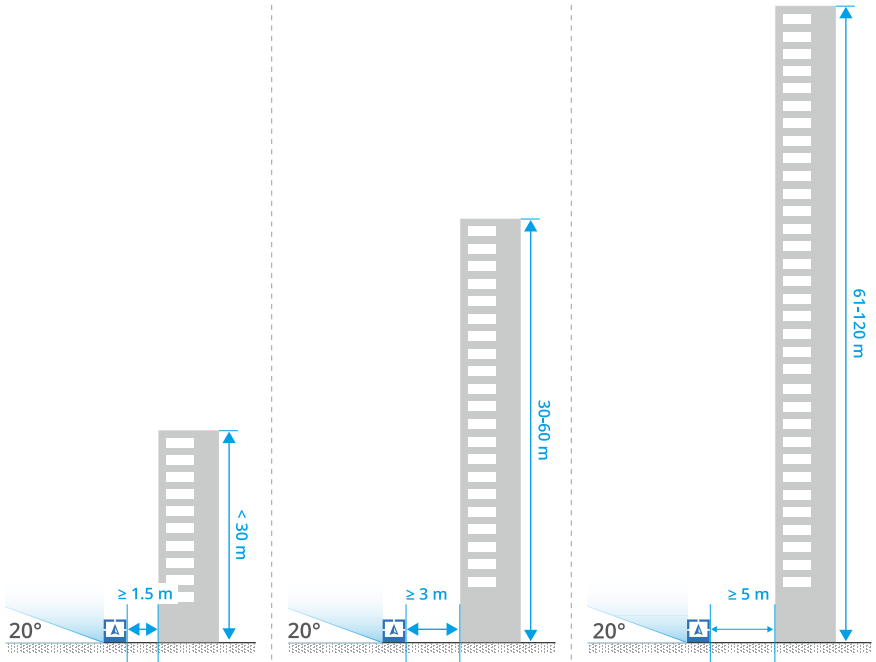
- 
- Make sure there are no obvious reflective objects above or around the installation location of the devices, to avoid affecting the normal operation of the aircraft video transmission system and GNSS system.

Single-Side Building Deployment

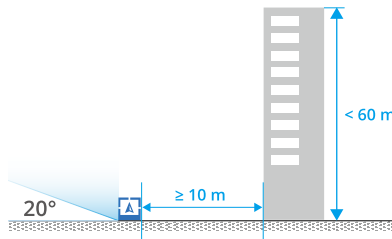
For single-side building deployment, obstruction is only allowed on one side of the dock. All other directions must remain free of obstacles above a 20° ground elevation angle.

- When a **multi-GNSS model (red zone)** is used and the site evaluation result of the ground station is "Excellent", the distance requirements between the dock and the building are as follows:

Building Height	Distance Between Dock and Building
< 30 m	≥ 1.5 m
30 m to 60 m	≥ 3 m
60 m to 120 m	≥ 5 m
> 120 m	Not suitable for dock deployment



- When a **multi-GNSS model (red zone)** is used and the site evaluation result of the ground station is "Fair", or a **multi-GNSS model (blue zone)** with an "Excellent" result: the building height must be less than 60 m, and the distance between the dock and the building must be at least 10 m.

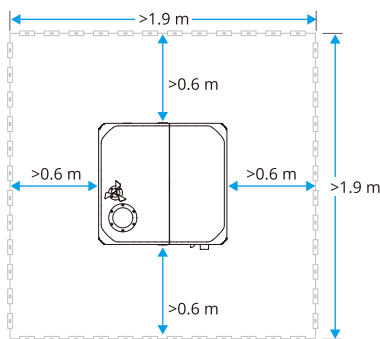


Ground Conditions Survey



- Avoid installing the dock at a site with underground facilities as much as possible.

- DO NOT install the dock on the roof of a dilapidated building. Both the installation location and the alternate landing site must be more than 2 m away from the edge of the building. Avoid selecting the edge of a building, to prevent serious consequences if the aircraft falls.
 - When installing on the roof of a building, pay attention to the obstruction of the aircraft RTK signal and video transmission signal by the low walls around the roof (such as a parapet wall). Increase the height of the dock base if necessary.
 - The dock must be installed in a ventilated location to facilitate heat dissipation. For better ventilation, it is recommended to elevate the dock more than 0.5 m above the ground.
 - For installation sites where snow accumulation may occur, use a support bracket with dimensions not exceeding the dock base to elevate the dock, to avoid the dock being buried by snow.
-
- The ground bearing capacity must be 400 kg/m² or more.
 - Reserve space around the dock as shown in the figure. The area within 0.6 m must be kept clear at all times, to allow the dock cover to open and the air conditioner to dissipate heat, and to provide sufficient space for the normal operation of the dock and for installation and maintenance personnel.



Top View

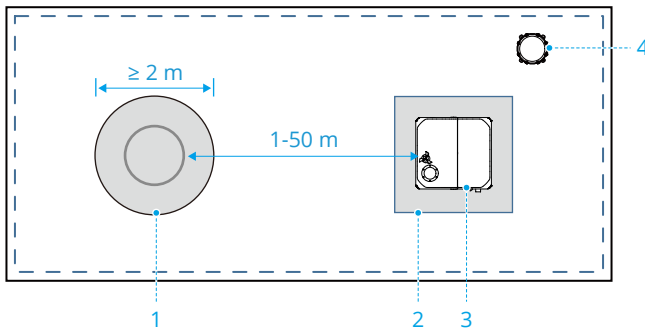
- There must be no objects higher than the landing pad within 1.5 m around the dock, so as not to affect the takeoff and landing of the aircraft.
- There must be no tall weeds or other vegetation at the site. During deployment, it is recommended to completely remove the vegetation and its roots from the site, to prevent it from entering the takeoff and landing area of the aircraft and affecting normal operation.

Record the survey results, including the dock installation location, the fixing method, the installation orientation, and the list of required materials. It is recommended to use paint or chalk to mark the detailed installation position of the dock and the position of the alternate landing site at the installation site.

Alternate Landing Site Requirements

When there is an issue with the dock or the aircraft, the aircraft may not be able to land at the dock, and an alternate landing site must be set near the dock.

- When choosing the alternate landing site, consider the clearance needed during the aircraft landing process. Make sure there is no debris within a 1 m radius of the alternate landing site.
- It is recommended to set the alternate landing site in an open area near the dock, at the same height as the dock and at a horizontal distance of 1 m to 50 m.
- Place a clear mark at the alternate landing site to prevent people from approaching. The mark must not use light-colored objects that resemble the landing pad in shape or visual markings, such as white rectangular, white triangular objects, H-shaped patterns, or grid patterns, to avoid false detection when the aircraft lands.



- | | |
|---------------------------|-------------------|
| 1. Alternate Landing Site | 3. Dock |
| 2. Concrete Base | 4. Ground Station |



- Pay attention to avoid personal injury when the aircraft is landing at the alternate landing site.
- If the alternate landing site is set on the roof of a building, make sure it is not located at the edge of the building, to avoid a fall.

3.3 Confirming the Mounting Method

Ground Station Mounting Methods

The ground station can be installed on a non-fixed steel frame base, a wall, or a support bracket. Select a suitable option based on the actual conditions.

Installing on a Non-Fixed Steel Frame Base

A non-fixed steel frame base is suitable for rooftops and other locations where drilling and anchoring are impractical. This solution requires no concrete curing, allows for quick construction, and enables on-site frame assembly for maximum flexibility. The ground station can be installed on a dedicated steel frame base or share a single base with the dock.

-
- ⚠ • Not suitable for soft or unpaved ground. For soft ground, a concrete foundation must be constructed before placing the steel frame.
 - Before positioning the steel frame, plan the cable routing for the power cable, Ethernet cable, and earth wire. Ensure the earth cable outlets are not obstructed or crushed by the frame or concrete counterweights, and that the earth wire can easily connect to a nearby earth electrode.
-

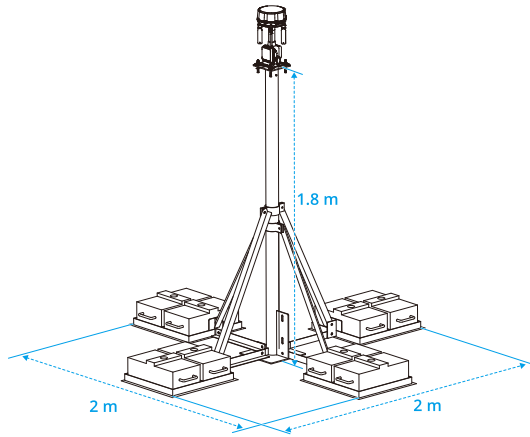
Fabrication Requirements

It is recommended to use galvanized steel or 304 stainless steel (non-polished) square tubes and angle steel for fabrication. Apply anti-rust paint to the welds. The 2D and 3D design drawings of the steel frame can be downloaded from the [DJI official website](#).

Standalone Installation

To install the ground station on a dedicated steel frame base, follow the steps below:

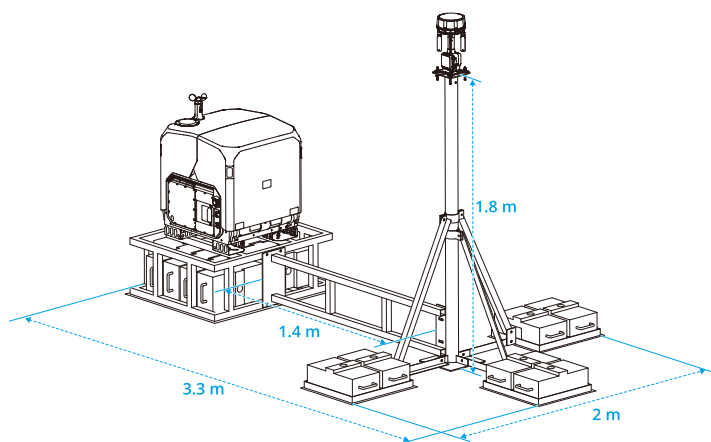
1. Lay an appropriately sized anti-slip rubber mat at the intended installation location, assemble the steel frame on-site according to the drawings, and place it in position.
2. Pre-tighten the frame using screws.
3. Place two precast concrete counterweights (approx. 25 kg each) on each side of the base.
4. Fully tighten all the screws.
5. Properly connect the steel frame to the earth electrode.
6. Secure the ground station to the steel frame with screws and ground it.



Installing Together with the Dock

When installing the dock and the ground station together, they must be secured with a connecting beam. Refer to the figure for the specific dimensions of the steel frame and the connecting beam. Follow the steps below to install:

1. Lay an appropriately sized anti-slip rubber mat at the intended installation location, assemble the steel frame and the connecting beam on-site according to the drawings, and place them in position.
2. Pre-tighten the frame using screws.
3. Place precast concrete counterweights (approx. 25 kg each): two on each side of the ground station base, and a total of eight on the dock base.
4. Fully tighten all the screws.
5. Properly connect the steel frame to the earth electrode.
6. Secure the ground station and the dock to the steel frame with screws and ground them.



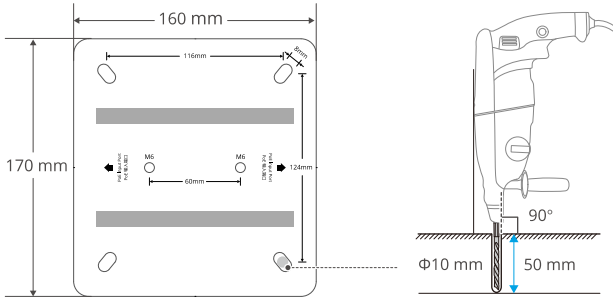
Installing on a Wall

Suitable for sites with an elevated wall near the ground station where drilling and anchoring are permitted.

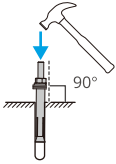
-
- ⚠ • The wall must be made of solid concrete or solid brick, and must not be a lightweight brick wall, to prevent the device from detaching and causing personal injury.
-

1. Use the drilling template to locate and drill holes, then install the expansion bolts.
2. Install the device onto the expansion bolts and tighten the nuts and lock nuts in sequence. Securely connect the earth wire to the earth electrode. It is recommended to use the lightning protection belt from the parapet walls as the earth electrode.

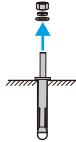
a.



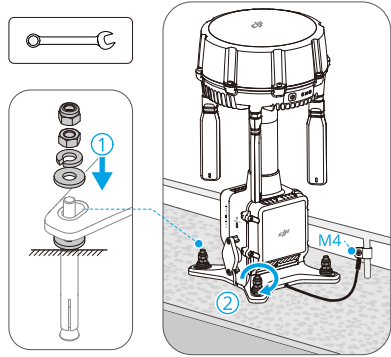
b.



c.



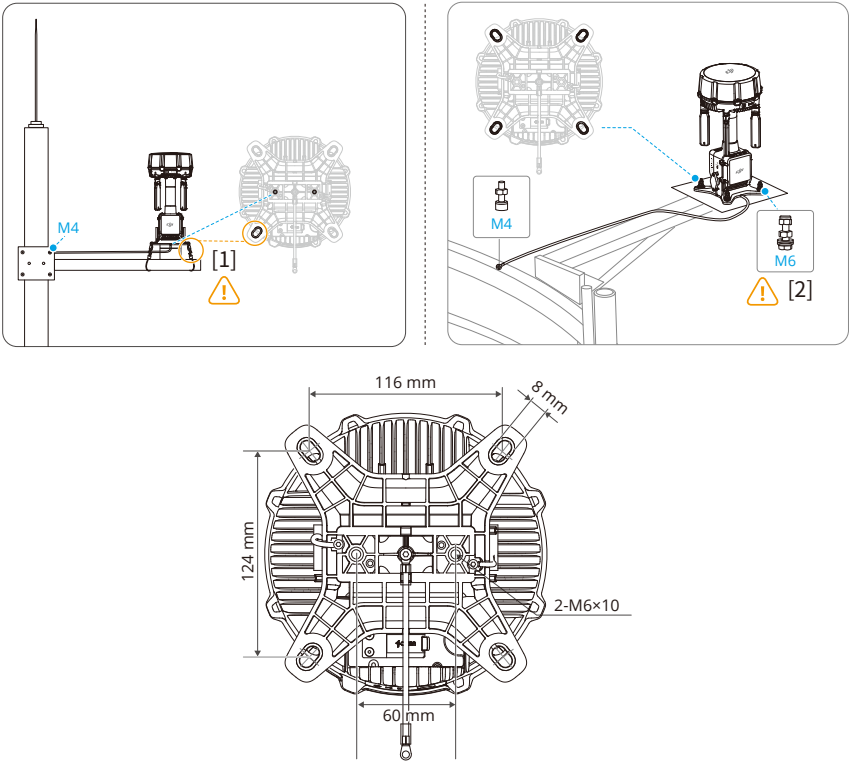
d.



Installing on a Support Bracket

Suitable for locations where a support bracket can be firmly installed, such as paved ground, walls, or towers.

Install the device on a suitable support bracket using the slotted holes or M6 threaded holes as required. Securely connect the earth wire to the earth electrode. Installation diagrams are for reference only.



[1] It is recommended to use a safety wire to secure the device through the slotted hole.

[2] Lock nuts are recommended.

Dock Mounting Methods

Select one method to fix the dock according to the actual situation. A non-fixed steel frame base, a concrete base, a load-bearing frame, or direct fixing to the ground can be used.

Before fixing the dock, consider the following factors:

- Make sure the dock camera orientation is not facing direct sunlight. Otherwise, the service life of the product and camera view may be affected due to the environmental factors.
- Place the digital level on top of the installation site to measure two diagonal directions. Make sure that the surface is horizontally level with inclinations less than 3° in any direction.

- When installing two or more docks at the same site, make sure to add all the docks to the same project so that Multi-Drone Takeoff/Landing operates properly. If Multi-Drone Takeoff/Landing is unavailable, make sure to keep a separation distance of at least 20 m between all the docks.

Using a Non-Fixed Steel Frame Base

Applicable Locations

A non-fixed steel frame base is used to elevate the dock. It is suitable for level concrete surfaces (such as rooftops) where site evaluation requires elevating the dock. This solution requires no concrete curing and allows for quick construction.

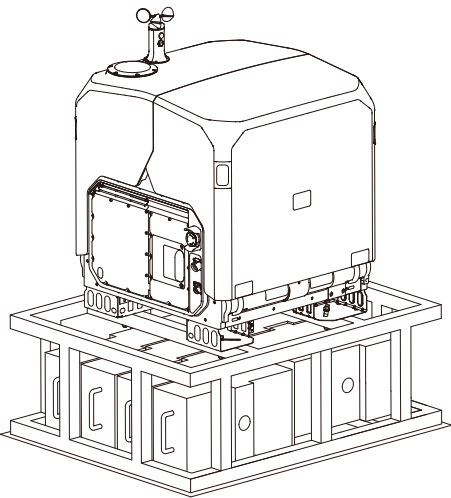
The dock can be installed on a dedicated steel frame base, or share the same base with the ground station. When installing with the ground station, refer to the [Installing on a Non-Fixed Steel Frame Base](#) section.

Fabrication Requirements

It is recommended to use galvanized steel or 304 stainless steel (non-polished) square tubes and angle steel for fabrication. Apply anti-rust paint to the welds. The 2D and 3D design drawings of the steel frame can be downloaded from the [DJI official website](#).

Installation Steps

1. Lay an appropriately sized anti-slip rubber mat at the intended installation location, assemble the steel frame on-site according to the drawings, and place it in position.
2. Pre-tighten the frame using screws.
3. Place eight precast concrete counterweights (approx. 25 kg each).
4. Fully tighten all the screws.
5. Properly connect the steel frame to the earth electrode.
6. Secure the dock to the steel frame with screws and ground it.



Using a Concrete Base

Applicable Locations

Installing the dock on a concrete base elevates the dock and resolves ground subsidence or water accumulation issues. A concrete base is also sturdy and reliable, and effectively meets the fixing requirements in strong winds. The applicable locations are as follows:

- Ground without a hardened soil layer, such as fields, woodlands, and grasslands.
- Ground with hardened concrete but with a large slope or unevenness.

Fabrication Requirements

The concrete base can be fabricated on-site according to the following requirements.

- The concrete base dimensions are 700 mm × 700 mm × 200 mm (the height of the base above the ground must be 100 mm or more). Determine the height of the base according to the drainage conditions in the surrounding area. The base must be more than 100 mm higher than the historical highest water level of the installation site.
- Use C25 concrete for pouring, with a single-layer two-way $\phi 4$ @ 150 mm reinforcement mesh inside, and a concrete protective layer of more than 25 mm. The C25 concrete mix ratio is as follows:

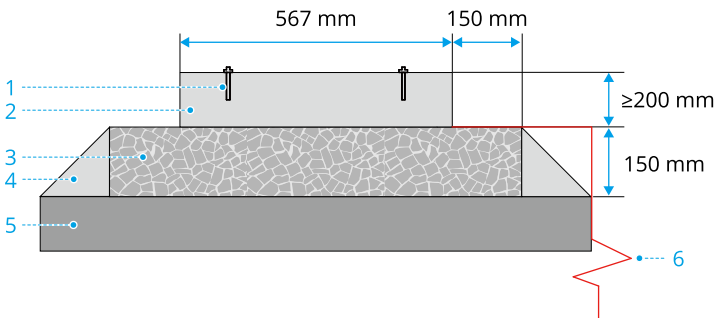
	Cement	Water	Sand	Gravel
Weight	372 kg	175 kg	593 kg	1260 kg
Weight Ratio	1	0.47	1.59	3.39

- Reserve four mounting holes with four M8 bolts pre-embedded or mount four M8 expansion bolts directly after the concrete hardens to facilitate subsequent installation of the dock.
- Lightning protection earthing preparation: use 50 mm × 5 mm galvanized flat steel for the exposed part, and connect the flat steel to the dock with a flexible copper core cable. Use 50 mm × 50 mm × 5 mm galvanized angle steel for the buried section, with a burial depth of 1.6 m or more. Refer to the [Lightning Protection System](#) section for more information.
- The concrete base must be cured for 7 days after construction.
- For ease of construction, the pipes and cables at the concrete base location can be installed as exposed conduits at a later stage.

Construction Steps

The construction steps vary according to the applicable location. Refer to the following for details.

- Ground without a hardened soil layer
 - ♦ Compact the original soil to ensure the base is stable.
 - ♦ Lay a 150 mm thick crushed stone layer (3:7 graded sand and gravel, with a crushed stone particle size of 5 mm to 40 mm) on top of the soil layer, and use C25 concrete to form the edge around the crushed stone layer.
 - ♦ Pour C25 concrete on top of the crushed stone layer.
 - ♦ Smooth the concrete surface with the original slurry. Make sure the flatness does not exceed ± 4 mm and the inclination is less than 3° .
 - ♦ Reserve the lightning protection earthing device.



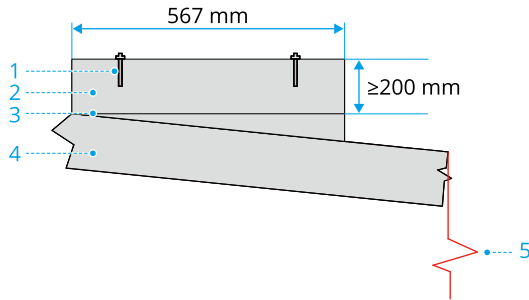
Sectional View

- | | |
|----------------------------|------------------------|
| 1. Mounting Holes for Dock | 3. Crushed Stone Layer |
| 2. C25 Concrete Base | 4. C25 Concrete Edge |

5. Original Soil

6. Lightning Protection Earthing

- Ground with hardened concrete but with a large slope or unevenness
 - Roughen the original concrete base surface.
 - Pour C25 concrete.
 - Smooth the concrete surface with the original slurry. Make sure the flatness does not exceed ± 4 mm and the inclination is less than 3° .
 - Reserve the lightning protection earthing device.



Sectional View

- | | |
|----------------------------|----------------------------------|
| 1. Mounting Holes for Dock | 4. Original Concrete Layer |
| 2. C25 Concrete Base | 5. Lightning Protection Earthing |
| 3. Base Surface | |

Using a Load-Bearing Frame

Applicable Locations

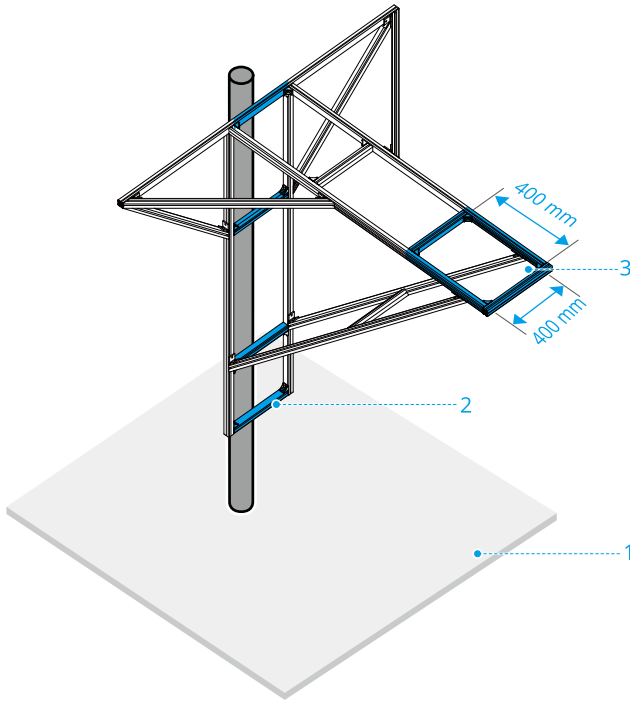
A load-bearing frame can be used for deployment at locations such as a communication tower or a utility pole. The installation location must have a pole or a column that can bear a weight of 200 kg or more. This option requires no curing process and has a short construction period.

Fabrication Requirements

The load-bearing frame is not provided with the product. It can be customized according to the following requirements:

- Considering the tolerance of outdoor environments, it is recommended to use 40 mm galvanized square tubes/angle steel or 304 stainless steel square tubes/angle steel for fabrication, and apply paint to prevent corrosion.

- The plane of the load-bearing frame used to install the dock must have a vertical load-bearing capacity of more than 200 kg and a horizontal load-bearing capacity of more than 100 kg.
- The following fabrication style is for reference only. During actual fabrication, also consider the convenience of personnel operation during installation and maintenance.



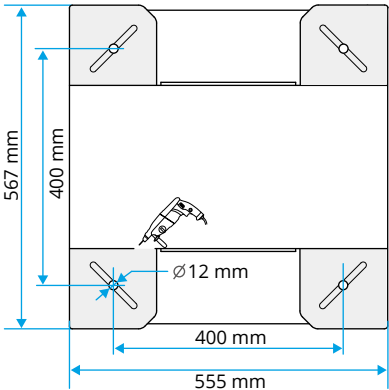
1. Ground
2. Mounting to a Pole or Column
3. Dock Installation Location

Installation Steps

1. Use connectors to secure the fabricated load-bearing frame to the tower body or the pole. Make sure the inclination of the plane used to install the dock is less than 3° .
2. Use M8 screws to secure the dock to the load-bearing frame. Make sure the inclination of the dock installation level is less than 3° , and the horizontal distance between the dock and the pole is more than 5 m.
3. Reserve the lightning protection earthing device.

Mounting Directly to the Ground

If the installation location already has a concrete-hardened level surface, has no risk of flooding, and has no obvious obstructions in the surrounding area, there is no need to elevate the dock. Use the drilling template to assist with positioning and drilling, and use expansion bolts to fix the dock directly to the ground.

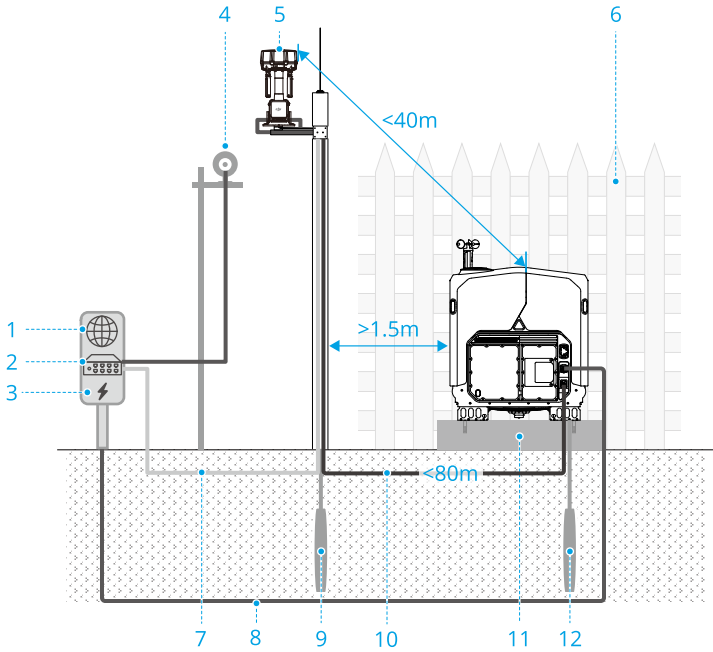


3.4 Confirming the Power Supply and Network Connection Methods

Cable Connection Diagram

Connect the dock to a power supply using a power cable, and complete all cable connections to the ground station and network devices as shown below.

The distance between the dock and the ground station must satisfy the following: cabling distance < 80 m; straight-line distance < 40 m; horizontal distance > 1.5 m.



1. External Network
2. Switch (user-supplied)
3. Waterproof Distribution Box
4. Third-Party IP Camera (user-supplied)
5. Ground Station
6. Protective Fence (user-supplied)
7. Ethernet Cable (from the Ground Station WAN Port to the Switch)
8. Power Cable
9. Ground Station Earth Electrode
10. Ethernet Cable (from the Ground Station LAN Port to the Dock PoE Output Port)
11. Concrete Base
12. Dock Earth Electrode

Power Supply and Cable Requirements

Power Supply Requirements

When using the dock, an external AC power supply must be connected to power the dock. The power supply requirements are as follows:

- The electrical connection must comply with the local laws and regulations of the country or region where the dock is used.
- The power supply at the dock installation location must be stable, without frequent power outages.
- Make sure the voltage and frequency meet the dock operation requirements:

Type	Parameter
Power Supply Type	Single-Phase AC
Output Voltage	100 to 240 V AC
Frequency	50/60 Hz
Output Power	> 2200 W

- To power the dock, install a dedicated 2P circuit breaker and a 40 kA surge protective device in the user-supplied waterproof distribution box. Use a 25 A circuit breaker in regions with 100 to 130 V AC mains voltage, and a 16 A circuit breaker in regions with 220 to 240 V AC.

Cable Requirements

The cable connecting the dock to the external power supply must be laid inside a protective conduit.

Cable Requirements

- When the cable length is more than 50 m, it is recommended to install an additional outdoor waterproof distribution box with a socket near the dock, to make it convenient to power tools and equipment when installing and maintaining the dock.
- The cable length and cross-sectional area must meet the following requirements:

Cable Length	Cross-Sectional Area
< 100 m	2.5 mm ² (14 AWG) three-core outdoor sheathed copper core cable
100 m to 200 m	4 mm ² (12 AWG) three-core outdoor sheathed copper core cable
> 200 m	6 mm ² (10 AWG) three-core outdoor sheathed copper core cable

-
-  The power cable plug supplied with the dock is only applicable to cables with a cross-sectional area of 2.5 mm² and an outer diameter of 11 mm to 14 mm. If the cable specifications are outside this range, use the circuit breaker in the waterproof distribution box for cable conversion.
-

Protective Conduit Laying Requirements

- PVC pipes must be used and buried underground. For special requirements, galvanized steel pipes can be used, fastened to the ground, and properly earthed. The inner diameter of the conduit must be at least 1.5 times the outer diameter of the cable (including the protective layer).
- Cables inside protective conduits must not have joints. Conduit joints must be waterproofed, and the ends must be sealed with sealing compound.
- The power cable and the Ethernet cable must be laid separately in different conduits, with a distance of 30 mm or more between them. When laying the cables, avoid routing them near water pipes, heating pipes, or gas pipes.

Waterproof Distribution Box

If the user installs an additional outdoor waterproof distribution box, the requirements are as follows:

- The waterproof distribution box must be securely fixed to the ground with its bottom at least 500 mm above the ground to avoid the risk of flooding. However, its overall height must not be higher than the dock landing pad.
- The waterproof distribution box must be installed on the side close to the cabling of the dock electrical cabinet, to make cabling and debugging convenient.
- The waterproof distribution box must be installed more than 1 m away from the dock, to avoid affecting the takeoff and landing of the aircraft.
- The lead-in and lead-out cables of the waterproof distribution box must be protected by conduits and buried underground. The connections between the conduits and the waterproof distribution box must be properly waterproofed and sealed (sealing compound can be used).
- Both the earth wire of the socket in the waterproof distribution box and the earth wire of the dock must be properly connected to the enclosure of the waterproof distribution box and connected to the earth.

The recommended electrical components in the waterproof distribution box are as follows:

Name	Usage
Waterproof Distribution Box	Houses the electrical components and provides waterproof protection.
Earth Bus Bar	Connects together the earth wire of the lead-in cable, the earth wire of the socket, the earth wire of the lead-out cable, and the enclosure of the waterproof distribution box (if the waterproof distribution box is made of metal).
C25/C16 Circuit Breaker	Connects to the dock to supply power to it. Use C25 in regions where the mains voltage is 100 to 130 V AC, and C16 in regions where the mains voltage is 220 to 240 V AC.
C16 Circuit Breaker	Connects to the socket in the waterproof distribution box to supply power to it.
DIN Rail Mount Socket	Supplies power to devices such as network devices, hammer drills, laptops, and smartphone chargers, making on-site installation and debugging convenient.

Network Requirements

During the construction preparation stage, confirm the network access method and complete the preparation and laying of the cables. The network will be configured after the devices are installed.

Network Access Methods

The dock must access the internet through the ground station. The ground station supports two connection methods: a wired connection, which accesses the external network through the WAN port, or a 4G cellular connection, which requires installing a cellular dongle. When both are connected, the wired connection takes priority.

Outdoor Cabling Requirements

- The Ethernet cable must be laid in a protective conduit. For the conduit laying requirements, refer to the protective conduit laying requirements in the [Cable Requirements](#) section.
- Reserve sufficient cable length near the port of the ground station so that a drip loop can be created when connecting, to prevent rainwater from flowing into the port along the cable.

Connecting the Ground Station to a Wired Network

When using a wired network, connect the ground station to the external network via the WAN port. For how to make and connect the Ethernet connector, refer to the [Connecting the Ground Station Ethernet Cables](#) section.

The network must meet the following requirements:

- A gigabit network is recommended. Both upload and download bandwidth must be greater than 20 Mbps (over 40 Mbps recommended for optimal performance).
- Use a Cat 6 outdoor waterproof Ethernet cable with an outer diameter of 5.5 mm to 6.5 mm.
- After terminating the Ethernet cable, use a network cable tester to ensure proper wire continuity between both ends.
- A laptop can be connected to the network port first to measure the network speed using a speed test website.



- If an IP camera is deployed at the same time, it is recommended to use a dedicated network to reduce the impact of network latency on the video transmission quality.
-

Connecting the Ground Station to a Cellular Network

When a wired network is unavailable, a cellular dongle can be installed on the ground station to access a 4G network. The 4G cellular network can serve as the primary network link or as a backup link for the wired Ethernet, improving the overall network reliability. For how to install the cellular dongle, refer to the [Installing the Cellular Dongle \(Optional\)](#) section.

Connecting to a cellular network must meet the following requirements:

- Ensure the carrier's 4G network has good signal coverage at the installation site.
- Select an appropriate data plan in advance based on expected operation requirements.



- Use a smartphone app to test the network speed at the planned installation location of the ground station. Both upload and download bandwidth must be greater than 20 Mbps. Ensure the carrier used during testing matches the one intended for future operations.
-

Connecting the Ground Station to the Dock

Connect the dock to the ground station's LAN port via an Ethernet cable. The cable length must be less than 80 m.

Connection requirements:

- When the cabling distance is within 5 m, the Ethernet cable in the package can be used to connect the dock and the ground station directly. When the Ground Station Connection Indicator on the dock electrical cabinet panel blinks green, the dock and the ground station are connected properly.
- When the cabling distance exceeds 5 m, make an Ethernet cable according to the actual cabling distance. It is recommended to use a Cat 6 outdoor waterproof Ethernet cable with an outer diameter of 5.5 mm to 6.5 mm. Ensure the RJ45 connector is securely crimped.

For how to make and connect the Ethernet connector, refer to the [Connecting the Ground Station Ethernet Cables](#) and [Connecting the Ethernet Cable](#) sections.

3.5 Lightning Protection and Earthing Requirements

Lightning Protection System

Make sure that both the dock and the ground station can be protected by a lightning rod. The protected region of the air-termination system can be calculated using the rolling sphere method. A device that remains within the imaginary sphere is protected from a direct lightning flash.

If a device is not under the protection of the nearest lightning rod, a designated lightning protection system must be designed by a qualified professional.

The WAN port and the LAN port of the ground station and the PoE output port of the dock all have built-in surge protection with a total discharge current of 10 kA, which meets the EN/IEC 61643-21 Category C protection level. This protection is intended for induced lightning and line-conducted surges, and cannot replace an external direct lightning protection system.

Earth-termination System

Both the dock and the ground station must be reliably earthed. Select an appropriate earth-termination system according to the conditions of the installation location.

- When installing on a rooftop, the dock and the ground station must each be connected to the lightning protection belt.
- Before connecting the earth wire to the earth electrode (such as a lightning protection belt), remove the rust and paint at the connection point of the earth electrode to ensure good metal contact. After the connection is completed, apply anti-corrosion treatment to the connection point.
- Use an earthing resistance meter to measure the earthing resistance. The earthing resistance for the devices must be less than 10 Ω .

Requirements for Fabricating and Installing the Earth Electrode

- The vertical earth electrode should be made of hot-dip galvanized steel, copper, copper-clad steel, or another new type of earth electrode material, with a length of 1.5 m to 2.5 m. Determine the length of the vertical earth electrode according to the soil quality and geographical conditions where the earth-electrode network is buried.
- The distance between multiple vertical earth electrodes should not be less than 5 m. The specific number is determined by the size of the earth-electrode network and the geographical environment.
- During fabrication, one end of the angle steel should be made into a pointed shape, which is generally done by oblique cutting.
- The burial depth of the earth electrode should generally not be less than 0.7 m (the distance between the upper end of the earth electrode and the ground surface). In cold regions, the earth electrode should be buried below the permafrost layer. In areas with a lot of thin gravel in the soil, determine the burial depth of the earth electrode according to the actual conditions.



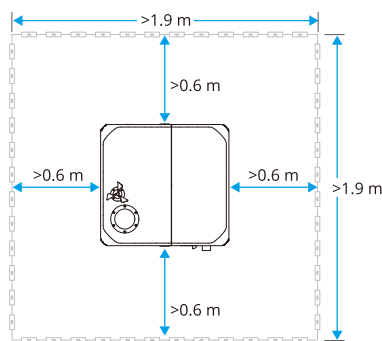
- When an earthing resistance meter is required, operate it according to its instructions, and perform a short-circuit zero calibration on the meter before measurement.
 - In areas where the soil resistivity is high and the earthing resistance of the earth-electrode network cannot meet the device requirements, outward-extending radial earth electrodes can be used, or a long-term liquid resistance-reducing agent, a special earthing rod, or an external earthing connection can be used.
 - Provided that the earthing resistance is less than 10 Ω , the lightning protection earthing system can be shared with other earth-termination systems.
-

3.6 Protective Fence

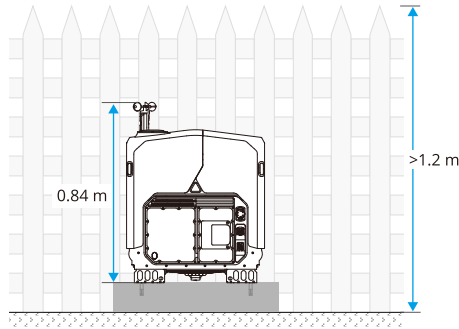
If personnel or animals approaching the dock cannot be controlled, please install a fence to ensure the safety of the surrounding pedestrians and to prevent theft of the devices.

Protective Fence Requirements

- ⚠ • Operators who enter the fence must undergo professional training and fully understand the precautions for installation and operation as well as the risks of use.
 - To operate the dock on-site, before entering the fence, make sure that there are no pending tasks on DJI FlightHub 2 and that the aircraft has landed back in the dock. Only then can the access door be opened to enter the fence. After entering, first press the emergency stop button of the dock.
-
- It is recommended that the fence dimensions are not less than those shown in the figure.
 - The fence must be installed securely to prevent it from toppling over, and an access door must be reserved for personnel to enter for inspection and maintenance. The access door must be locked to prevent unauthorized personnel from entering.
 - A warning sign that states "Danger: Risk of Mechanical Equipment Injury" must be hung on the outside of the fence.
 - To minimize the impact on the video transmission signal and the RTK signal, it is recommended to use a non-metallic fence, such as plastic-steel.



Top View

*Side View*

- The fence must be purchased and installed by the user or the service provider. DJI does not provide this item.

3.7 Third-Party IP Camera

An additional third-party IP camera can be installed according to security requirements. The ground station supports connecting to an IP camera. Refer to the [IP Camera Configuration Guide](#).

4 Dock Transportation and Storage

4.1 Dock Transportation

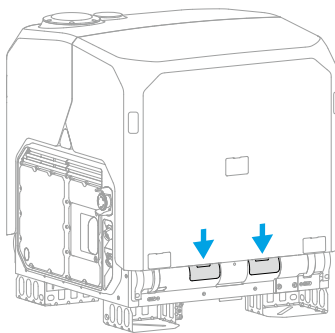
- ⚠ • The dock must be carried by professionally trained personnel. Operators must read this manual carefully. If the dock is damaged due to failure to store, carry, install, or use it according to the instructions in this manual, it will not be covered by the warranty.
-

Carrying the Dock

- ⚠ • When carrying the dock manually, make sure to prepare for load bearing to avoid sprains or being crushed by heavy objects, and wear protective gloves to avoid injury.
-

When carrying the unpacked dock, move it carefully to avoid scratching the surface. DO NOT impact or drop the dock to avoid damage.

When moving or lifting the dock, hold the bottom edge of the dock cover.



Lifting the Dock

- ⚠ • Personnel who perform lifting operations must undergo professional training and can only work after passing the assessment.
- The lifting tools must be inspected, must meet the required standards and service life, and must be complete before use.

- When lifting the dock, DO NOT walk or stay under the boom or the lifted object, and DO NOT stand in any direction in which the lifted object may fall, roll, or swing.

To lift the unpacked dock, it is recommended to use a lifting cage as the preferred method. The lifting cage must be prepared in advance by the lifting company and brought to the site. If a lifting cage cannot be used, the dock can be lifted using slings. In this case, the lifting points must be selected correctly, the rigging must be properly routed and attached, and a trial lift must be performed.

4.2 Dock Storage

If the dock is not used immediately, follow the requirements as shown below for temporary storage:

- Store it in a dry, rainproof, and fireproof place with no corrosive materials nearby.
- Protect it from water accumulation erosion and damage caused by animals.
- Make sure the outer packaging is in good condition, and check it regularly.
- If the dock has been unpacked but is not used immediately, place it in a waterproof bag, put it into its original packaging with a desiccant, and seal the waterproof bag with adhesive tape.
- DO NOT tilt or invert the dock. DO NOT stack items on top of the packing box after the dock is packed.
- If the installed dock is left unused outdoors for an extended period, make sure to remove the aircraft from the dock and store it separately, and remove all batteries from the battery compartments. The aircraft must be properly packaged and transported separately.

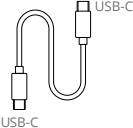
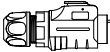
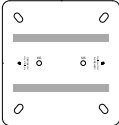
5 Device Installation and Configuration

5.1 Installation Preparation

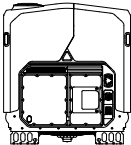
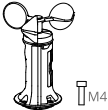
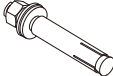
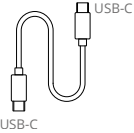
In the Box

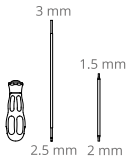
After unpacking, check that all items listed below are included in the package.

Ground Station Items

Ground Station ×1	USB-C to USB-C Cable ×1	Ethernet Connectors ×2	Expansion Bolts (with Lock Nuts) ×4
			
Installation Card ×1	Tool Kit ×1		
			

Dock Items

Dock ×1	Wind Speed Gauge Module ^[1] ×1	Ethernet Connector ×1	Power Cable Connector ×1
			
Expansion Bolts ×4	Power Cable Wire Ferrules ×6	5 m Ethernet Cable ×1	USB-C to USB-C Cable ×1
			

Tool Kit ×1			
			

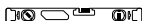
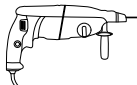
[1] The wind speed gauge module and its mounting screws are located inside the dock cover.

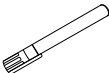
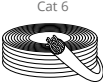
Aircraft Items

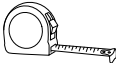
Aircraft ×1	Batteries ×4	CW Propellers ×1 Pair	CCW Propellers ×1 Pair
			
M3 Screws ×6	Propeller Clamps ×3	Washers ×3	
			

User-Prepared Tools and Items

The following tools and items are used during installation. Prepare them in advance and make sure that the tools work properly.

Digital Level	Hammer Drill	Claw Hammer	Adjustable Wrench
			
Ladder	Anti-Fall Steel Wire Rope	Screws and Nuts (M8) ^[1]	Screws and Nuts (M4) ^[1]

			
Paint Marker	Power Cable ^[2]	Ethernet Cable ^[2]	Pass-Through Connector
			
Corrugated Tubing	Corrugated Tubing Plug	Clamp (Optional)	Electrical Tape
			
Drain Pipe (Optional)	Cable Crimping Pliers	Diagonal Cutting Pliers	Wire Stripper
			
Pin Terminal Crimping Pliers	Multimeter ^[3]	Cable Tester	Earthing Resistance Meter
			
Smartphone	Computer	PD 3.0 Charger	PoE Power Adapter (Optional)

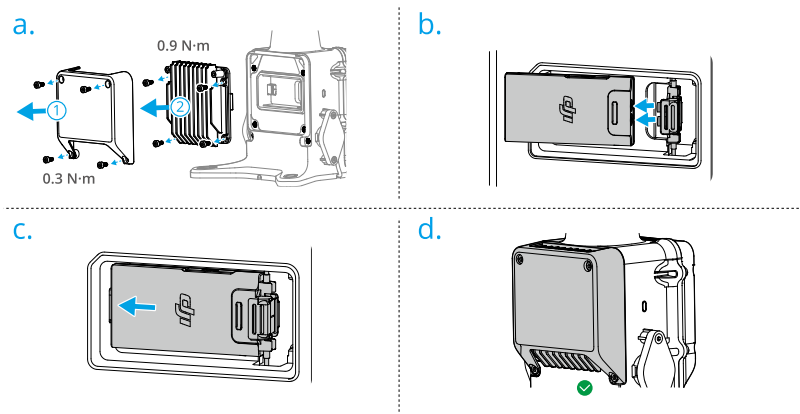
			
Cellular Dongle (Optional) ^[4]	4G Router	Tape Measure	
			

- [1] The M8 screws and nuts are used for earthing the dock, and the M4 screws and nuts are used for earthing the ground station.
- [2] The power cable must be an RVV three-core 2.5 mm² outdoor sheathed cable with an outer diameter of 11 mm to 14 mm. The Ethernet cable must be a Cat 6 cable with an outer diameter of 5.5 mm to 6.5 mm. Otherwise, the seal will not be tight and the water-resistant performance will be affected.
- [3] The probe length of the multimeter must be more than 25 mm so that it can be inserted into the wire testing terminals.
- [4] A nano-SIM card must be prepared by the user.

5.2 Ground Station Deployment

Installing the Cellular Dongle (Optional)

The installation figure uses DJI Cellular Dongle 2 as an example. Operate with caution to avoid pulling and damaging the cables.

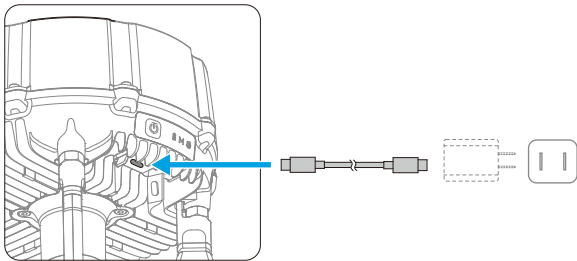


Activating the Ground Station

Activating the Battery

Before using the device for the first time, make sure to charge the built-in battery to wake it up. It is recommended to use a USB PD 3.0 (9 to 12 V) charger for charging.

1. Connect the charger to the USB-C port. The power indicator lights up, indicating that the battery has been woken up successfully.
2. After the battery is woken up, continue charging it until the power indicator shows solid green.

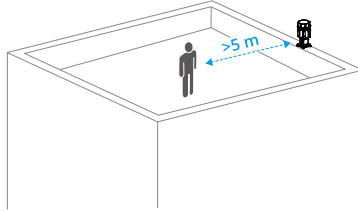


Activating the Device

1. Press once, and then press and hold the power button to power on the device.
2. Use a USB-C to USB-C cable to connect the ground station to a smartphone.
3. Open DJI Enterprise App and follow the app instructions to activate the ground station.

Signal Evaluation

Before fixing the ground station in place, position it at the installation location determined during [Site Evaluation](#), and make sure it is powered on. Connect the ground station to a smartphone and open the DJI Enterprise App, then follow the app instructions to complete the pre-installation check, inclination check, and signal evaluation.



- On-site personnel and other movable objects must stay lower than the ground station antenna, or stay more than 5 m away from the ground station.

Wait for the app to output the result. Make sure the signal quality is "Excellent" or "Fair" before installation. If the signal quality does not meet the requirements, adjust the installation location and check again.

After completing the signal evaluation, press the power button once and then press and hold it to power off the ground station.

Mounting the Ground Station

Select a suitable mounting method according to the actual conditions, and mount the ground station on a non-fixed steel frame base, a wall, or a support bracket. For more information, refer to the [Ground Station Mounting Methods](#) section.

Before mounting, use a level to measure the two diagonal directions of the surface at the installation location, and make sure that the slope in either direction does not exceed 6°.

After mounting, check the following items:

- The ground station is mounted securely without wobbling, and the fixing screws are tightened to prevent serious consequences caused by falling. If lock nuts are used, make sure they are tightened in place.
- The earth wire is securely connected to the external earth electrode.

Connecting the Ground Station Ethernet Cables

After installing the ground station, connect the WAN port Ethernet cable and then the LAN port Ethernet cable.

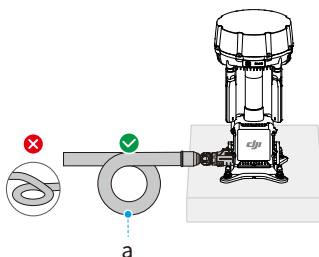
Connecting the WAN Port Ethernet Cable

1. Route the reserved Ethernet cable to the device installation location. Cut the corrugated tubing plug to a suitable opening according to the outer diameter of the Ethernet cable, and then slide the corrugated tubing and corrugated tubing plug onto the Ethernet cable in sequence.



- It is recommended to create a drip loop before the cable enters the device port:

Bend the Ethernet cable into an inverted Ω shape to form the lowest point of the cable. This allows rainwater to flow along the cable to the lowest point and drip off, instead of flowing into the port and causing damage.

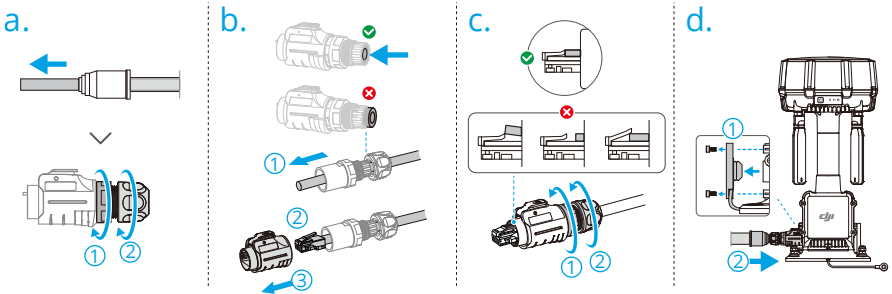


a. Drip Loop

2. Follow the steps below to fabricate the Ethernet connector.
 - a. Unscrew the Ethernet connector to separate the housing from the rear sleeve, and loosen the rear nut.
 - b. Insert the Ethernet cable and crimp the pass-through connector according to the T568B wiring sequence (as shown in the figure below). Make sure the plastic jacket of the Ethernet cable is pressed into the pass-through connector and secured by crimping. Crimp the pass-through connector on the other end of the Ethernet cable according to the T568B wiring sequence as well. Use a network cable tester to test the continuity of the Ethernet cable. After confirming it is normal, insert the pass-through connector into the housing until you hear a click.



- c. Use a wrench to tighten the rear sleeve first. Make sure the silicone part of the Ethernet cable is fully inserted into the sleeve, and then tighten the rear nut.
3. Use a screwdriver to remove the protective cover on the port. Insert the Ethernet connector until a click is heard, and make sure it is securely installed.



4. Connect the other end of the WAN port Ethernet cable to the external network.

Connecting the LAN Port Ethernet Cable

It is recommended to use the 5 m Ethernet cable in the dock package. Connect the white connector to the LAN port of the ground station. The black connector will be connected to the PoE output port of the dock during dock deployment. If the distance between the dock and the ground station exceeds 5 m, an Ethernet cable must be made by the user. For how to make the Ethernet connector on the ground station side, refer to the [Connecting the WAN Port Ethernet Cable](#) section. For how to make and connect the Ethernet connector on the dock side, refer to the [Connecting the Ethernet Cable](#) section in Dock Deployment.

Insert the Ethernet connector into the LAN port of the ground station until a click is heard to make sure it is securely installed.

- ⚠ • Crimp the Ethernet connectors on both ends of the cable before connecting it to the devices. DO NOT plug in one end and then crimp the connector on the other end. Once connected, make sure both ends of the Ethernet cable are connected correctly and securely.

- Before inserting the Ethernet connector, make sure the connector and the port are dry and free of water. Otherwise, the port of the ground station may be damaged.
- After installation, if the pass-through connector needs to be removed from the Ethernet connector, use a flathead screwdriver to lift the locking tab of the connector, and then remove the pass-through connector.

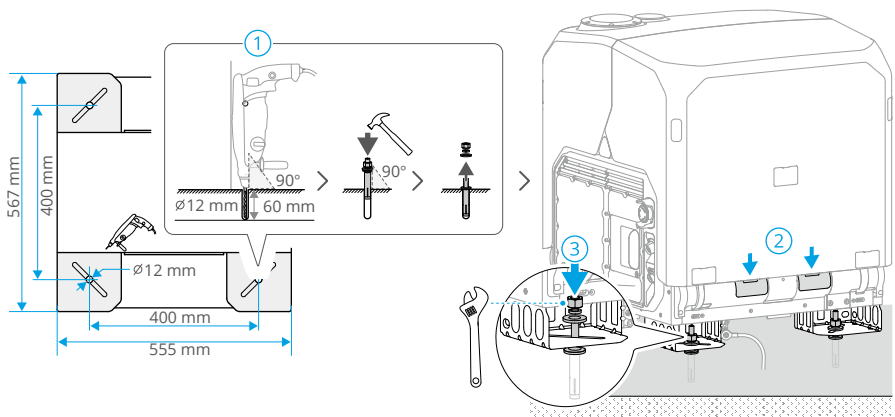
5.3 Dock Deployment

Mounting and Securing

- ⚠ • Wear a dust mask and safety goggles when drilling holes to prevent dust from entering the eyes, nose, and throat. Pay attention to personal safety when using any electrical tools.
- When aligning the expansion bolts with the mounting base brackets, DO NOT put your hands under the mounting base brackets when moving the dock in order to avoid injury.

A concrete base or a steel frame base must be fabricated in advance at the installation location during construction. For more information, refer to the [Dock Mounting Methods](#) section. The following installation instructions use a concrete base as an example.

1. Use the installation card to assist drilling holes and mount the expansion bolts.
2. Grip the lower edge of the dock cover, carefully lift the dock to the installation position, and secure the mounting feet onto the expansion bolts.



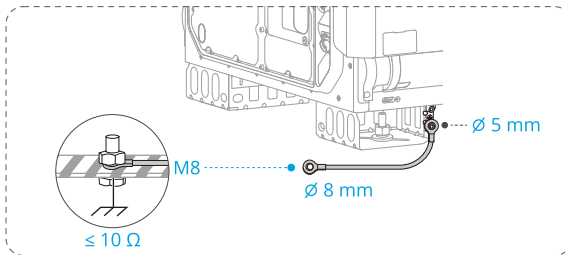
- ⚠ • After mounting, regularly check and promptly clear newly grown vegetation around the dock during operation, and keep the area within 0.6 m clear, to prevent vegetation from entering the aircraft takeoff and landing area and affecting normal operation.
- To use multi-dock task plans, purchase docks as needed. Make sure to read the instructions in the [Multi-Dock Task Plans](#) section carefully before installing and configuring the docks.

Connecting the Earth Wire

- ⚠ • Make sure to earth the dock as required.

Make sure that the earth wire is not coiled or intertwined with the signal cables.

Before installation, make sure that the design and construction of the earthing device meet the requirements. Fix the ring terminal of the earth wire to the lead-out pole of the earth electrode.



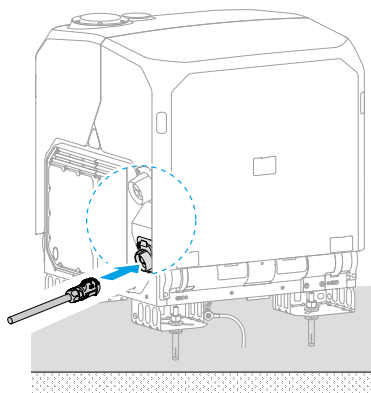
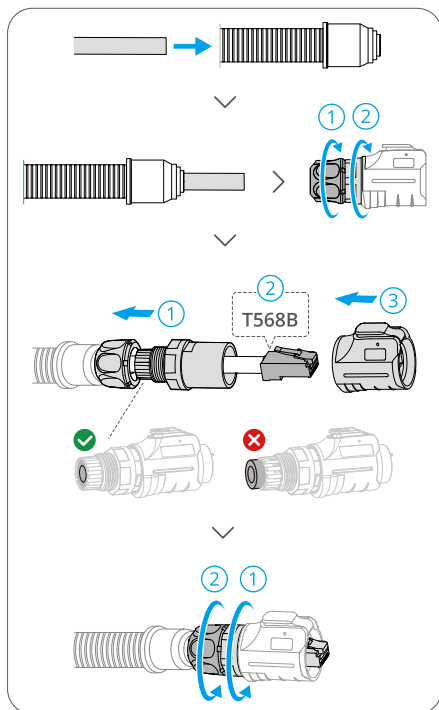
Connecting the Ethernet Cable

If using the Ethernet cable included in the dock package, insert the black connector into the PoE output port of the dock until a click is heard, and make sure it is securely installed.

If using a self-fabricated Ethernet cable, follow the steps below to fabricate and connect the Ethernet connector.

1. Route the cable to the vicinity of the dock, and slide the corrugated tubing and corrugated tubing plug onto the Ethernet cable in sequence.
2. Fabricate the Ethernet connector strictly following the steps shown in the figure, and use a wrench for tightening.

3. Insert the Ethernet connector into the PoE output port of the dock until a click is heard, and make sure it is securely installed.



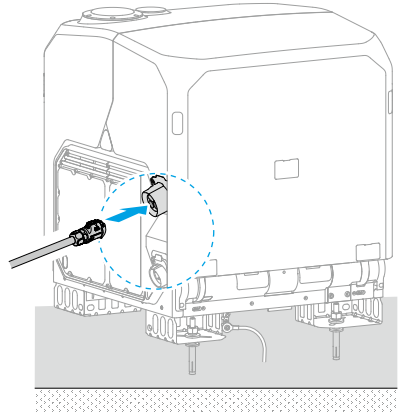
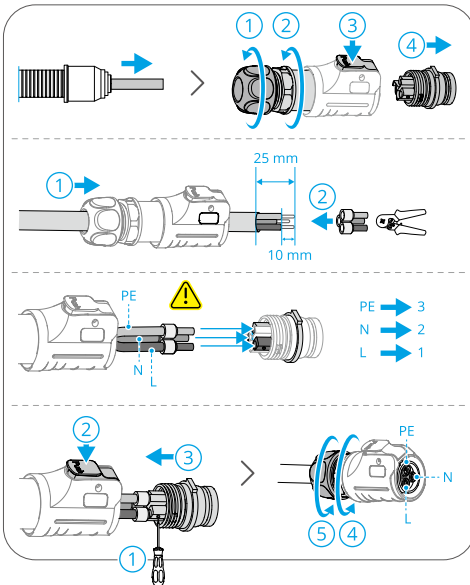
- ⚠ • Before inserting the Ethernet connector, make sure the connector and the PoE output port of the dock are dry and free of water stains. Otherwise, the PoE port may be damaged.
- 💡 • After installation, if you need to remove the pass-through connector from the Ethernet connector, use a flathead screwdriver to lift the tab on the Ethernet connector, and then take out the pass-through connector.

Connecting the Power Cable

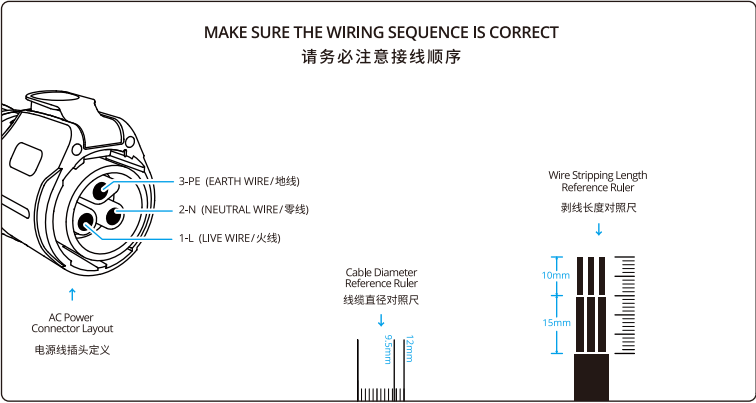
- ⚠ • Only certified electricians can carry out above-safety-voltage operations.
- Before operation, make sure to turn off the upstream main switch and place a sign near the switch prohibiting the turning on of the switch.

- Use a multimeter to check for voltage at the end of the power cable. DO NOT work on live circuits.
- The color of the earth, neutral and live wires may vary by country and region. Make sure the three wires are properly and securely connected.
- Be careful not to damage the wire insulation layer when stripping the cable insulation layer.
- Check that the outer insulation layer of the power cable is fully covered by the tail nut to avoid affecting water resistance.

1. Route the cable to the vicinity of the dock, and slide the corrugated tubing and corrugated tubing plug onto the cable in sequence.
2. Follow the steps below to fabricate the power cable connector.



- Disassemble the power connector as per diagram.
- Lead the 2.5 mm² power cable through the power connector. Use the ruler pattern (printed on the accessory box) to measure the length of the cable and wires. Use a tool to remove the outer and inner insulation layers to expose the conductor of the wire. Crimp the wire ferrules onto the end of the wires.



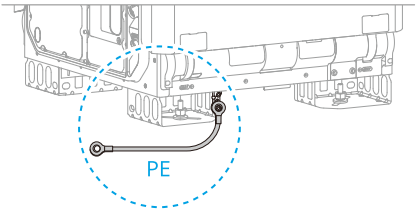
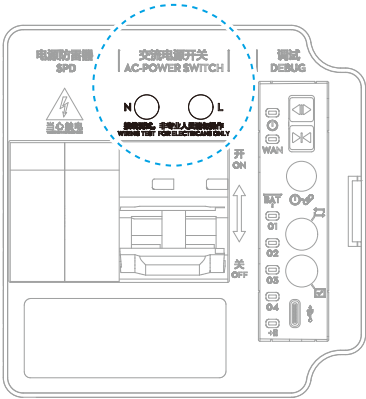
- c. Loosen the screws on the inner component and insert the wire ferrules. Make sure L (live wire), N (neutral wire), and the PE (earth wire) wires correspond to terminals 1, 2, and 3 before tightening the screws.
 - d. Insert the internal component into the outer casing. Strictly follow the steps to tighten the tail sleeve and the tail nut in sequence.
3. Insert the power cable connector until a click is heard to make sure it is securely installed.

- ⚠ • Before inserting the power cable connector, make sure the connector and the power port of the dock are dry and free of water. Otherwise, it may cause electric shock and damage the power port of the dock.

Wiring Connection Test

- ⚠ • Operate with caution during the test, and avoid touching the metal parts of the dock or the multimeter probes.

1. Turn on the upstream power switch of the dock.
2. Open the electrical cabinet door. Set the multimeter to the 750 V AC voltage range, and measure at each of the wire testing terminals. Make sure that the voltage test results are consistent with the table, and that the maximum input voltage does not exceed 240 V. If any measurement result is inconsistent, identify and resolve the cause before powering on the dock.



Wire Testing Terminal	Voltage Range
N-L	90 to 240 V
N-PE	<4 V
L-PE	90 to 240 V

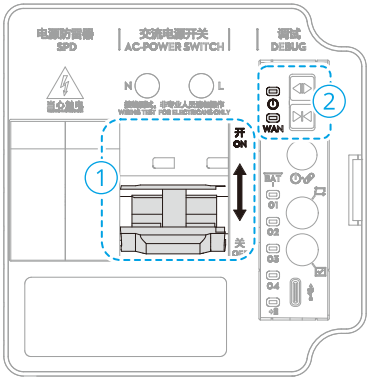
Checklist Before Powering On

Checklist	Description
Earth Wire	The earth wire is properly connected to the earth electrode.
Ethernet Cable	- The outer insulation layer of the Ethernet cable is completely pressed into the RJ45 connector and crimped securely. - All parts of the Ethernet connector are tightened with a wrench. - The Ethernet connectors are securely connected to the dock and the ground station.
Power Cable	- The wiring connection test has been completed and the wire sequence is correct. - The outer insulation layer of the power cable is completely wrapped by the sealing ring. - All parts of the power cable connector are tightened with a wrench. - The power cable connector is securely connected to the dock.

Checklist	Description
Dock	• The dock is mounted firmly without shaking, and the tilt is less than 3°. • The emergency stop button of the dock has been rotated clockwise and pulled out, and is in the released state.
Ground Station	• The ground station is mounted firmly without shaking, and the tilt does not exceed 6°. If an anti-fall steel wire rope is installed, make sure that it is securely locked in place. • The earth wire is properly connected to the earth electrode. • The LAN port Ethernet cable is securely connected. • When a wired network is used, the WAN port Ethernet cable is securely connected. The protective cover screws of the unused ports are tightened. • When the optional cellular dongle is used, the module is installed in place and the screws of the waterproof cover of the cellular dongle compartment are tightened. • The protective cover of the USB-C port is closed.
Surrounding Environment	• The dock area has been cleared of packaging materials such as cardboard, foam, and plastic. • No obstacles block the dock covers in the direction in which they open.

Powering On and Checking

1. Make sure that the upstream power switch of the dock is turned on. Flip the AC power switch upward.
2. Within 30 seconds, the status indicators on the electrical cabinet panel should display as follows. Otherwise, perform troubleshooting.



Indicator	Normal Status	Status Description
Power Indicator	Solid red	AC power supply is normal.
Ground Station Con- nection Indicator	Blinks green	The dock and the ground station are con- nected normally.

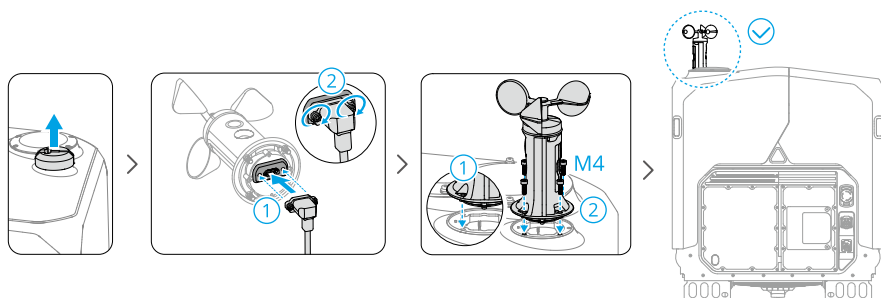
Installing the Wind Speed Gauge

1. Press and hold the open button on the electrical cabinet to open the dock cover, and take out the wind speed gauge and its mounting screws.

After the dock is powered on, the battery swapping module will rotate for a self-check. DO NOT reach into the battery compartments or the operational zone of the battery swapping module to prevent pinch injuries. In an emergency, press the emergency stop button on the dock to halt operation.

☀️ • After opening the dock cover, remove the white protective foams at the positions of the dock status indicators.

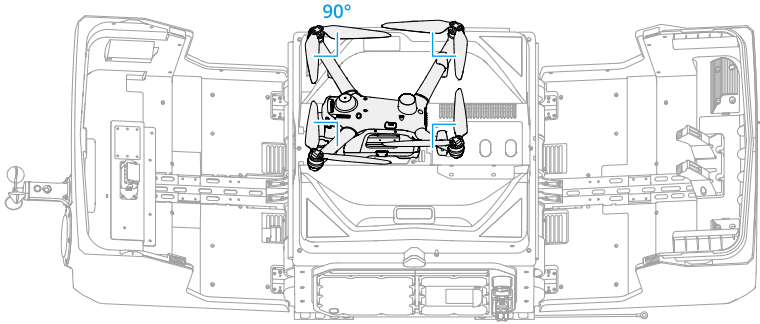
2. After removing the wind speed gauge, press and hold the close button to close the dock cover, and flip the AC power switch downward to disconnect the power supply.
3. Mount the wind speed gauge module as shown in the figure. Make sure that the connector is oriented correctly. Prevent the screws from falling through the hole into the dock cover.



After the installation is complete, flip the AC power switch upward to connect the power supply.

5.4 Configuring the Devices

- ⚠ Before configuration, create the organization and project in the DJI FlightHub 2 public cloud in advance. During configuration, bind the devices to the organization and project.
- Use the DJI Enterprise App to configure the devices.
- When the dock is connected to a smartphone and the dock cover is opened with the app, stay clear of the cover's moving mechanisms to prevent personal injury. If necessary, press the emergency stop button on the dock to stop the mechanism from moving.
- When the aircraft is inside the dock, before manually closing the dock cover with the button, make sure the battery swapping module has returned to its home position. Align the aircraft propellers inside the landing pad so the two blades form a 90° angle, preventing equipment damage or broken blades when the cover closes.



- DO NOT move the devices after completing configuration. If the location of the dock or the ground station changes, deploy and configure them again.

The overall configuration process, the key points of each step, and the precautions are as follows. Complete each operation according to the app instructions.

1. **Activating the Dock:** Use a USB-C to USB-C cable to connect the dock to the smartphone, and activate it according to the app instructions.
2. **Configuring the Ground Station**
 - a. **Pre-Installation Check:** Perform the inclination check and signal evaluation of the ground station again, and confirm that the PoE power meets the deployment conditions.

Precaution: During the check, on-site personnel and other movable objects must stay lower than the ground station antenna, or stay more than 5 m away from the ground station.
 - b. **Network Configuration:** Select a wired network or a 4G cellular network. If no network is available on site, you can connect a smartphone to the WAN port using a USB-C-to-RJ45 adapter cable to share its network connection, or use a 4G router.
 - c. **Cloud Service Configuration:** Bind the device to the target organization.

Precautions:
 - It is recommended to log in to the DJI FlightHub 2 public cloud account first, and switch back to other cloud services after completing the configuration.
 - To view the device binding code of a DJI FlightHub 2 organization: log in to DJI FlightHub 2, go to **Devices > Dock/Ground Station**, and tap **Device Binding Code** to view the organization ID and the device binding code.
 - d. **Position Convergence and Calibration:** Wait for the GNSS positioning to converge, and then perform position calibration. It is recommended to use network RTK calibration.

Precaution: During convergence and calibration, on-site personnel and other movable objects must stay lower than the ground station antenna, or stay more than 5 m away from the ground station.

3. Configuring the Dock and the Aircraft

- a. **Dock Pre-Deployment Check:** Check each item according to the app prompts to make sure the installation is complete and the connections are correct.
- b. **Installing the Battery:** Install the battery according to the app prompts. Up to three batteries can be installed. If you need to manually install the battery, refer to the [Manually Installing and Removing the Battery in the Battery Compartment](#) section.

Precautions: Ensure the dock cover is open and the aircraft has been removed from the dock. DO NOT reach into the battery compartments or the operational zone of the battery swapping module.

- c. **Preparing the Aircraft:** Remove the protective film from the aircraft LiDAR, install the battery, and complete power-on linking and aircraft activation.
- d. **Setting the Alternate Landing Site:** Place the aircraft in a safe landing area 1 to 50 m from the dock to configure the alternate landing site.
- e. **Calibrating the Compass:** Calibrate the compass with the aircraft at a height of 1.5 m above the ground.
- f. **Video Transmission Quality Evaluation:** Place the aircraft inside the dock, close the dock cover, and then perform the evaluation.

Precaution: After the evaluation is passed, DO NOT move the device again.

- g. **Setting the Entry/Exit Route:** For unobstructed deployment and single-side building deployment, select automatic setting.

Precautions:

- Before setting, make sure the aircraft battery level is greater than 50%, and remove any accessories on top of the aircraft (such as a parachute or other third-party accessories).
- During the setting, on-site personnel and other movable objects must stay more than 5 m away from the dock and the ground station to avoid blocking the GNSS positioning signals.
- For automatic setting, keep the smartphone connected to the dock. For manual setting, disconnect the smartphone from the dock, and ensure the smartphone has internet access to connect to the DJI FlightHub 2 public cloud.
- If a prompt indicates that the RTK signal of the entry/exit route does not meet the standard, the dock will not support multi-dock task plans. If you need to use this feature, it is recommended to change the dock deployment location.

- After completing the setting, the accessories can be reinstalled. If a speaker is installed, recalibrate the compass.
- h. **Test Flight:** Complete the test flight according to the app instructions.
- Precautions:
- The test flight requires a DJI FlightHub 2 public cloud account. Make sure the project to which the dock belongs is not empty, the dock status is idle, and the current account is the administrator of the project.
 - During the test flight, personnel must stay more than 5 m away from the dock and the ground station.
 - During the flight, pressing the emergency stop button on the dock can trigger the aircraft alternate landing test to make sure the alternate landing site setting meets expectations.
- i. **Device Firmware Update:** Through DJI FlightHub 2 or DJI Assistant 2 (Enterprise Series), update the firmware of the dock, aircraft, ground station, and accessories to the latest version.
- Precaution: DO NOT disconnect the device power or network connection during the update.

5.5 Checklist Before Leaving

Before leaving the site, make sure to check the following items.

Checklist	Description
Ground Station	• The waterproof nut of the Ethernet connector is tightened, and the corrugated tubing plug is sealed in place. • The protective cover of the USB-C port is closed. • The earth wire is securely connected, and the earth resistance meets the requirements. • If lock nuts are used, make sure that they are tightened in place. When the device is mounted on a support bracket, an anti-fall steel wire rope is installed. • The antenna rubber sleeve is correctly installed, without damage or looseness. • The position calibration is completed, and the device is shown as online in DJI FlightHub 2. • The power indicator, mode indicator, and GNSS signal indicator all display normally.

Checklist	Description
Dock	• The mounting screws of the wind speed gauge are tightened. • After the wind speed gauge is rotated manually, data is displayed in DJI FlightHub 2 and the DJI Enterprise App. • The surfaces of the dock cover, rainfall gauge, and landing pad are clean and tidy, and free of debris. • The AC power switch in the electrical cabinet is flipped upward and turned on. • The emergency stop button is in the released state. • The aircraft batteries are installed in the battery compartments of the dock. • The dock cover is closed. • The electrical cabinet door is closed and locked.
Aircraft	• The aircraft is placed on the landing pad, and the aircraft front is oriented correctly. • If an official payload is mounted, the payload screws are tightened with a tool. • The surfaces of the LiDAR, vision cameras, gimbal camera, infrared sensor, and auxiliary light are free of foreign matter, dirt, and fingerprints. • The waterproof rubber plugs of the ports are installed in place.
System and Operation Verification	• The firmware of the ground station, dock, and aircraft is updated to the latest version. • The HMS in DJI FlightHub 2 and the DJI Enterprise App shows no abnormal alerts. • The entry/exit route setting is completed. • The aircraft test flight and the alternate landing test are completed.

6 Appendix

6.1 Multi-Dock Task Plans

To use multi-dock task plans, purchase docks as needed. Each dock used for a multi-dock task plan must undergo an environmental survey, construction preparation, installation, configuration, and flight operation testing. Make sure to read the following instructions on multi-dock task plans carefully.

Construction Preparation and Environmental Survey

1. **Environmental Requirements:** When selecting the sites, the distance between the two docks that will perform a multi-dock task plan must be less than 15 km (9.3 mi), and there must be no obstacles above the 20° elevation angle at the dock locations.
2. **Flight Route Testing:** Plan the dock sites according to the actual operation requirements, and perform test flights between all the docks that will perform a multi-dock task plan. Make sure that the multi-dock task plan is not affected by Altitude Zones or Restricted Zones, and that there is no strong interference along the flight route.

Configuring the Dock Using the DJI Enterprise App

1. **Calibrating the Dock Location:** The RTK signal source used by multiple docks must be the same, and manual calibration must not be used.
2. **Setting the Alternate Landing Site:** An alternate landing site must be set for each dock. The same aircraft or different aircraft can be used.
3. **Setting the Entry/Exit Route:** Whether a dock supports multi-dock task plans is subject to the app prompt when setting the entry/exit route. Only docks whose entry/exit route RTK signal meets the standard can perform multi-dock task plans.



- Once a dock has been connected to a roaming station or a relay station, the aircraft must be relinked to the ground station using the DJI Enterprise App or the multifunctional button on the dock before performing a multi-dock task plan.
- During a multi-dock task plan, the dock must not be connected to a roaming station or a relay station.

Automatic Flight Operation Test

1. Trial Flight tasks do not support multi-dock task plans. To perform a multi-dock task plan flight test, create a flight route operation.
2. When performing a multi-dock task plan test, go to the Task Plan Library in DJI FlightHub 2 and set the task type to **Multi-Dock Task Plans**. When the dock needs to perform a single-dock operation again, set the task type to **Single-Dock Task Plans**.
3. During the flight operation test, if an alternate landing site test is performed or the aircraft makes a forced landing, make sure that the aircraft is linked to the ground station connected to the landing dock before leaving the site.

6.2 Expansion Port

The aircraft is equipped with an E-Port that supports SDK expansion, enabling developers to develop additional extensions. Visit the [DJI Developer website](#) for SDK development information and development guides.

Payload Installation Requirements

- The device supports installing official payloads such as a speaker, a spotlight, and a parachute. After a payload is installed, the performance of the aircraft vision system and the obstacle avoidance capability will be limited. Fly with caution. After installing or replacing the speaker, recalibrate the aircraft compass. Visit <https://enterprise.dji.com/dock-4/downloads> to obtain the user guide of the accessory and learn about the detailed usage.
- Installing a payload will shorten the flight time and reduce the wind resistance of the aircraft. Mount the devices as needed based on the actual operation requirements. For the impact on the flight time, refer to the user guide of the corresponding accessory.
- Make sure that the payload is installed securely to prevent a loose payload from affecting the protection performance of the device or causing the payload to fall during flight.

Third-Party Payload Requirements

- Installing a third-party payload may affect the aircraft performance (such as video transmission, GNSS, and obstacle avoidance) and flight safety. It is recommended to use official payloads or the payloads in the Enterprise Ecosystem Solution Catalogue.

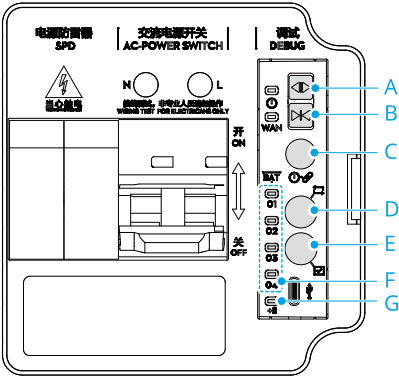
The payload size and installation height must meet the payload structural design criteria. Visit the [DJI Developer website](#) for more information.

- After a third-party payload is installed, the total weight of the aircraft must not exceed the officially specified maximum takeoff weight.
- The third-party payload must have a protection rating equal to or higher than that of the aircraft, so that the operational stability and service life of the device are not reduced. Make sure that the third-party payload has passed the water-resistance test with the aircraft, to prevent water leakage at the payload port, which would seriously affect flight safety.
- After installing a third-party payload, make sure to perform a stability test. Make sure that there is no port disconnection, no impact on the GNSS satellite search of the aircraft, no degradation of the video transmission performance, and no false obstacle avoidance.

6.3 Manually Installing and Removing the Battery in the Battery Compartment

- ⚠ • Before installing or removing the battery, remove the aircraft from the dock and ensure the landing pad is clear of any objects.
- Wait for the battery swapping module to stop moving before installing or removing the battery. DO NOT reach into the battery compartments or the operational zone of the battery swapping module to prevent pinch injuries. In an emergency, press the emergency stop button on the dock to halt operation.
- If the battery cannot be installed or removed smoothly, DO NOT forcibly push or pull the battery or repeatedly press the button. Contact DJI Support.

The electrical cabinet buttons involved in this section are shown in the figure below.



Installing the Battery

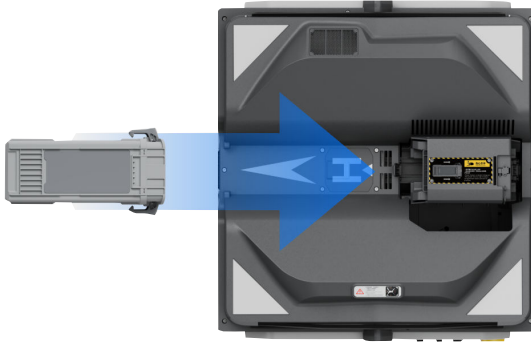
The dock is equipped with four battery compartments. Each battery compartment can hold one battery, and a maximum of three battery compartments can hold batteries at the same time.

Before installing the battery, make sure there are at least two empty battery compartments, and the battery to be installed is free of visible damage, with dry and clean contacts.

1. Press and hold the open button (A) to open the dock cover.
2. Press the battery install/remove selection button (D) (referred to as the "selection button") until the battery installation indicator blinks blue quickly, indicating that the battery installation state is entered.
3. Press the battery install/remove confirmation button (E) (referred to as the "confirmation button"). Wait for the battery swapping module to stop rotating.

-
- Within 3 minutes, you can press and hold the confirmation button (E) for 10 seconds to cancel the battery installation. The battery swapping module will automatically return to its home position.
 - If no operation is performed within 3 minutes after pressing the confirmation button (E), the battery installation state will be exited. In this case, press the selection button (D) to make the battery swapping module return to its home position, and then select battery installation or removal again.

4. Refer to the diagram on the battery swapping module, and push the battery into the module with the rear end of the battery facing the module. Make sure the battery is installed in place.



5. Press the confirmation button (E) again. The corresponding battery compartment indicator turning solid green indicates that the battery installation is complete.

Removing the Battery

1. Press and hold the open button (A) to open the dock cover.
2. Press the selection button (D) to cycle through battery compartments until the target compartment indicator blinks green quickly, indicating that the battery compartment is selected.
3. Press the confirmation button (E). Wait for the battery to be ejected, and then remove the battery.



- When removing the battery, if no operation is performed within 3 minutes after the battery is ejected, the battery removal state will be exited. In this case, press the selection button (D) to make the battery swapping module return to its home position, and then select battery installation or removal again.

4. Press the confirmation button (E) again. The battery swapping module returns to its home position, and the corresponding battery compartment indicator turns off.



- After removing the battery, DO NOT install the battery immediately. Press the confirmation button (E) and wait for the battery swapping module to return to its home position, and then follow the battery installation steps.

WE ARE HERE FOR YOU



Contact

DJI SUPPORT

The content is subject to change without prior notice.

Download the latest version from



<https://enterprise.dji.com/dock-4/downloads>

If you have any questions or suggestions about this document, contact DJI by sending a message to **DocSupport@dji.com**.

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