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🔍 Searching for Keywords
Search for keywords such as Battery or 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.

も多い 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

Legends

⚠️ Important 💡 Hints and Tips

Read Before Use

DJI™ provides users with the following documents.
1. Safety Guidelines
2. Quick Installation Guide
3. Installation and Setup Manual

It is recommended to watch all the tutorial videos and read the Installation and Setup Manual to understand the safety precautions and construction preparations before installation. Read the Safety Guidelines to understand important safety matters and use the Quick Installation Guide to complete on-site installation, configuration, and first flight test. Refer to the User Manual for more information.

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://www.dji.com/dock/video

⚠️ The operating temperature of the dock is -35° to 50° C (-31° to 122° F) and the aircraft is -20° to 40° C (-4° to 104° F).* It 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. Appropriately use the product for applications that meet the operating temperature range requirements of that grade.

* When the temperature is below -20° C (-4° F), the aircraft cannot perform flight tasks, the dock cover and the driving rods cannot be controlled automatically.
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Product Profile

MATRICE™ 30 Series Dock Bundle is a fully automatic unattended operation platform. DJI Dock is integrated with an ultra wide-angle camera, wind speed gauge, rain gauge, communication antennas, RTK module, and UPS power supply. The dock weighs 105 kg and occupies less than 1 m$^2$, which supports quick installation and configuration. With the M30 Series Dock Version aircraft, DJI FlightHub 2 can be used to perform automated operations remotely.

![Diagram]

- **Status Indicators**
- **Internal Video Transmission Antennas**
- **Dock Cover Arms**
- **Matrice 30 Series Dock Version**
- **Landing Pad Bolts**
- **Wind Speed Gauge**
- **Integrated Security Camera**
- **Camera Auxiliary Light**
- **Rainfall Gauge**
- **Dock Cover Propeller Bumpers**
- **Emergency Stop Button**
- **Electrical Cabinet Triangular Lock**
- **Mounting Base Brackets**
**Safety Precautions Before Installation**

To ensure safety of people and the devices, follow the labels on the devices and the safety precautions in the manual during installation, configuration, and maintenance.

<p>| | | |</p>
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<tbody>
<tr>
<td>• Installation, configuration, maintenance, troubleshooting, and repair of the dock must be done by DJI authorized technicians in compliance with local regulations.</td>
<td>• The person who installs and maintains the dock must have undergone training to understand the various safety precautions and be familiar with the correct operations. They must also understand the various potential dangers during dock installation, configuration, and maintenance and be familiar with the solution.</td>
<td>• Only those who hold a certificate issued by the local department can carry out above-safety-voltage operation.</td>
</tr>
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<td>• The person who installs and maintains the dock must have undergone training to understand the various safety precautions and be familiar with the correct operations. They must also understand the various potential dangers during dock installation, configuration, and maintenance and be familiar with the solution.</td>
<td>• Only those who hold a certificate issued by the local department can carry out operations at heights above 2 m.</td>
</tr>
<tr>
<td>• Make sure to perform the operation such as installation, configuration, and maintenance in accordance with the steps in this manual.</td>
<td>• Make sure to wear protective equipment during installation, configuration, and maintenance, such as a safety helmet, goggles, insulated gloves, and insulated shoes.</td>
<td>• Only those who hold a certificate issued by the local department can carry out welding work.</td>
</tr>
<tr>
<td>• Make sure to wear protective equipment during installation, configuration, and maintenance, such as a safety helmet, goggles, insulated gloves, and insulated shoes.</td>
<td>• Pay attention to personal safety when using any electrical tools.</td>
<td>• Make sure DJI Dock is properly grounded before use. When installing the dock, connect the earth wire before other cables. When removing the dock, remove other cables before the earth wire.</td>
</tr>
<tr>
<td>• Pay attention to personal safety when using any electrical tools.</td>
<td>• Wear a dust mask and goggles when drilling to prevent dust from entering the respiratory tract or eyes.</td>
<td>• DO NOT operate the dock without an earth wire installed.</td>
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<td>• DO NOT operate the dock without an earth wire installed.</td>
<td>• DO NOT damage the earth wire installed.</td>
</tr>
<tr>
<td>• DO NOT install, configure, or maintain the dock (including but not limited to moving or installing the dock, connecting the cables, or performing operations at a height) in severe weather such as thunderstorms, snowfall, or wind speeds is 12 m/s and above.</td>
<td>• 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.</td>
<td>• DO NOT install, configure, or maintain the dock (including but not limited to moving or installing the dock, connecting the cables, or performing operations at a height) in severe weather such as thunderstorms, snowfall, or wind speeds is 12 m/s and above.</td>
</tr>
<tr>
<td>• Measure the voltage on the contact points of the conductor with a multimeter, make sure there is no risk of electric shock before touching any conductor surfaces or terminals (such as the terminals of the AC power input). The dock must be powered off before installation.</td>
<td>• Measure the voltage on the contact points of the conductor with a multimeter, make sure there is no risk of electric shock before touching any conductor surfaces or terminals (such as the terminals of the AC power input). The dock must be powered off before installation.</td>
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<td>• Make sure to turn off the main switch in the distribution box, 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.</td>
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</tr>
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<td>• Make sure the handle of the other tools such as a voltage tester is insulated to avoid electric shocks.</td>
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</table>
• In the event of a fire, immediately evacuate the building or the dock installation area and then call the fire department. DO NOT re-enter a burning building or dock installation area under any circumstances.

• When carrying heavy objects, make sure to prepare to bear the weight to avoid injuries or being crushed by heavy objects.
  • Pay attention to personal safety if the dock needs to be hoisted.

• 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.
Construction Preparation

Make sure to read this chapter carefully, select a site for the dock according to the requirements, and fill out the DJI Dock Site Survey Checklist. Failure to select a site according to the requirements may lead to the dock malfunctioning, operational stability deterioration, shortening service life, unsatisfactory effects and potential safety hazards, property losses, and casualties.

Environmental Survey

Environmental Requirements

• The installation site altitude should not be higher than 4000 m.
• The annual temperature of the installation site should be in the range of -35° to 50° C (-31° to 122° F), considering the dock operating temperature range is -35° to 50° C (-31° to 122° F)*, and the aircraft flight operating temperature range in the dock is -20° to 50° C (-4° to 122° F). Temperatures exceeding the range will cause the device to not work. To ensure operation safety, the aircraft will not perform flight operations when the ambient temperature is lower than -20°C (-4° F). At this time, the dock is in Standby mode, and operations can resume after the temperature has risen.
• In order to ensure the normal operation of the dock and aircraft, choose a location with little wind, sand or dust to install the dock. Make sure that the gust wind speed is not greater than 12 m/s and the airflow is stable when the aircraft takes off and lands.
• Make sure there are no obvious biological destructive factors such as rodent infestation and termites at the installation site
• DO NOT install the dock near dangerous sources without permission, such as gas stations, oil depots, and dangerous chemical warehouses.
• DO NOT install the dock in a site with flammable materials such as debris and catkins that are easy to accumulate. RISK OF FIRE: Install the dock on a concrete or other non-combustible surface only.
• DO NOT install the dock on moving objects, such as cars and boats.
• Avoid installing the dock in lightning strike areas.
• Avoid areas that are prone to water accumulation, severe erosion, landslides, heavy snow accumulation, or other natural disasters.
• Avoid installing the dock in areas with chemical plants or septic tanks downwind to prevent pollution and corrosion. It is recommended that the straight-line distance from the nearest coastline is greater than 500 m.
• Avoid installing the dock directly under artificial lighting with reflective items on the ground. Otherwise, it will interfere with the vision system of the aircraft, affecting its landing and flight stability.
• It is recommended to install the dock at a distance of more than 200 m from sites with strong electromagnetic wave interference, such as radar stations, mobile communication base stations, and drone jamming equipment.
• It is recommended to install the dock at a distance from sites with iron ore and large steel structures or buildings to avoid interference with the aircraft compass.
• It is recommended to install the dock at a distance from sites with strong vibration sources and strong noise. Otherwise, it can cause interference to the dock environment sensors, and at the same time easily lead to a decrease in the operating life of the whole machine.
• It is recommended to consider the future environmental factors of the installation site. Make sure to avoid areas with large-scale construction plans or large environmental changes in the
future, including but not limited to the growth of weeds and trees (such as bamboo forests and vines), new buildings, bridges, communication base stations, and high-voltage towers. If there is any change, re-survey is required.

- It is recommended to consider whether the planned flight area is near or in a Restricted Zone. Make sure to apply for a GEO Zone Unlocking License and import it to the aircraft during installation and configuration.

* When the temperature is below -20° C (-4° F), the aircraft cannot perform flight tasks, the dock cover and the driving rods cannot be controlled automatically.

- Historical weather data can be queried on meteorological websites.
- The dock can work in an environment with 93% relative humidity as it has a protection rating of IP55.
- The normal transportation and storage temperature range is between -25° to 55° C (-13° to 131° F). If the period does not exceed 24 hours, the dock can be transported or stored at up to 70° C (158° F).
- When the dock is operating at full capacity, it has a sound power level of less than 74 dB(A) ± 3 dB(A) at a height of up to 0.5 m and a horizontal distance of 1 m from the dock.

### Signal Quality Requirements

It is recommended to install the dock in a place without obvious signal obstruction, such as in an open area or on a roof top. 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 built-in RTK module in the dock.

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

$$ d \geq h/0.36 $$

Where:
- $d$ is the minimum distance between the dock and the obstacle.
- $h$ is the obstacle height (the height of the obstacle can be measured by operating the aircraft).
Make sure there is no obvious reflector in the sky and around the dock installation location, so as to avoid impact on the normal operation of the aircraft video transmission system and GNSS system. Reflectors include but are not limited to the glass curtain wall of the building, tinned roofing, large solar panels on the roof, and metal billboards.

Using the Aircraft to Test

GNSS Signal Quality Survey

Use the M30 Series aircraft and DJI RC Plus remote controller (not included) to collect data for two periods as required at the planned installation location. Follow the steps below:

1. Power on the aircraft and remote controller. Make sure the aircraft is linked to the remote controller.
2. Run DJI PILOT™ 2 and tap 🗯️ on the home screen, select Dock Site Evaluation.
3. Follow the app instructions to create a new site evaluation task and conduct an environmental survey.
4. Follow the app instructions to place the aircraft at the planned installation location. The app will check the quality of the GNSS signal and complete the data analysis.
Performing a Flight Route Test

Perform flight routes around the planned installation location to evaluate operational capabilities, such as video transmission signal strength, flight endurance, and RTK signal interference. Follow the steps below:

1. Use the M30 series aircraft to create the flight route tasks via the app on the remote controller.
2. Take off from the planned installation location, and record the video transmission signal quality and flight endurance during the flight.

💡 - The flight distance is related to the actual operating area around the dock, so the survey needs to be determined according to the user requirements.

- Make sure the planned installation location is not in a Restricted Zone or Altitude Zone using DJI Pilot 2, otherwise the flight operation will be affected. If permission to fly in a Restricted Zone is available, please visit https://fly-safe.dji.com/ or contact flysafe@dji.com to unlock the zone.
Ground Conditions Survey

After completing the ground condition survey, fill out the information such as the dock installation location, installation method, installation orientation, and list of required materials. It is recommended to mark the planned installation location of the dock and the Alternate Landing Site using paint.

Installation Location Requirements

⚠️ • Make sure to install the dock on the roof of a building that is structurally sound. DO NOT install the dock in the corner of a roof in order to avoid the aircraft from accidentally crashing.

• Try to avoid installing the dock on top of existing underground facilities.

• When installed on top of a building, make sure the RTK and video transmission signals are not obstructed by any surrounding walls, structures, or other obstacles. Increase the height of the installation base if necessary.

• The ground bearing capacity must not be less than 150 kg/m².

• The installation area is recommended to be larger than 2.6 m × 3 m. Reserve at least 1 m at the sides of the dock to allow the dock cover to open and the air conditioning unit to dissipate heat. Reserve at least 0.85 m at the front and rear of the dock to allow for installation and maintenance.
Installation Method
Select one of the following methods to install the dock according to the actual situation, such as establishing a concrete base, placing a steel frame base, or installing on the ground directly.

Using A Concrete Base
A. Applicable Places
Installing the dock on a concrete base can raise the height of the dock, avoiding ground subsidence or risk of flooding so that the dock is properly fixed. Applicable places are as follows:
   a. Ground without hardened concrete such as fields, woodlands, and grasslands.
   b. Ground with hardened concrete but has large slopes or unevenness.
   c. Ground with a loading capacity requirement, such as on top of buildings.

B. Concrete Base Requirements
   • The concrete base size is recommended to be 1000 mm × 1000 mm × 100 mm. The specific height of the concrete base can be adjusted according to the on-site flooding risk situation, generally the minimum height should be no less than 100 mm.
   • The concrete base is established using C25 concrete, with single-layer two-way reinforcement and φ4 @ 150 mm mesh inside. Make sure the reinforcement is wrapped with a concrete protection layer larger than 25 mm. C25 concrete mix ratio is as bellow:
     |   | 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 M10 bolts pre-imbedded or mount four M10 expansion bolts directly after the concrete hardens to facilitate subsequent installation of the dock.
   • Preparing for lightning protection: The earth electrode above the ground should be made of 50 mm × 5 mm galvanized flat steel and is connected to the dock with a flexible copper core cable. The part under the ground should be made of 50 mm × 50 mm × 5 mm galvanized angle steel, and be inserted under the ground with a depth no less than 1.6 m. Refer to the Lightning Protection and Grounding Requirements section for more information.
   • Make sure to maintain the concrete base for at least 7 days after establishing it.
   • Consider the convenience of the base establishing, the pipelines and cables around the concrete base installed in the later stage can be exposed.
C. Base Establishing Steps

The base establishing steps vary according to the applicable site.

a. Applied to no hard ground
   1. Tamp down the original soil to ensure a stable foundation.
   2. Lay a 150mm thick crushed stone layer (sand and crushed stone ratio of 3:7, and crushed stone particle size of 5-40 mm) on the top of the original soil layer, and then use the C25 concrete around the crushed stone layer to form the edge.
   3. Lay the C25 concrete on the top of the crushed stone layer.
   4. Smooth the C25 concrete surface, make sure the flatness is no more than ±4 mm and the inclination is less than 5° from either side of the installation surface.
   5. Install the earth-termination system for lightning protection.

b. Ground surface has hardened concrete but with large slopes or unevenness
   1. Roughen the original concrete base surface.
   2. Lay the C25 concrete.
   3. Smooth the C25 concrete surface, make sure the flatness is not exceed ±4 mm, and the inclination is less than 5°.
   4. Install the earth-termination system for lightning protection.
c. Ground has loading capacity requirement
   1. Make two C25 concrete mounds.
   2. Smooth the C25 concrete surface, make sure the flatness is not exceed ±4 mm, and the inclination is less than 5°.
   3. Install the earth-termination system for lightning protection. The space between the two mounds can be used for piping and wiring.

![Diagram of concrete base with dimensions]

**Using A Steel Frame Base**

⚠️ • It is not suitable for no hard ground.
   • When installing the dock on the top of the building, confirm in advance whether the roof floor can be drilled. If not, it is recommended to use the steel frame properly fixed with heavy objects (such as sandbags).

<table>
<thead>
<tr>
<th>A. Applicable Places</th>
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<tr>
<td>If the installation location already has a concrete-hardened ground (such as a building roof), but there may be risk of flooding, signal blocking, or land subsidence, use a steel frame base. The construction period for this method is shorter as there is no maintenance stage.</td>
</tr>
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<thead>
<tr>
<th>B. Steel Frame Base Requirements</th>
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<tbody>
<tr>
<td>Customize a steel frame base (not provided) by following below requirements:</td>
</tr>
<tr>
<td>• Considering the tolerance in outdoor environment, it is recommended to use 40mm galvanized square tube or 304 stainless steel square tube, and spray paint to avoid corrosion.</td>
</tr>
<tr>
<td>• It is recommended that the base height of the dock is no less than 200 mm from the ground. Make sure the installation site is more than 100 mm from the highest recorded water level.</td>
</tr>
<tr>
<td>• The recommended measurements are shown as below:</td>
</tr>
</tbody>
</table>
C. Installation Steps
1. Fix the steel frame base on the hardened ground with expansion bolts or heavy objects such as sandbags.
2. Use M10 screws to install the dock on the steel frame base.

Directly Installing on Ground
If the installation site has hardened-concrete ground and no risk of flooding or obvious obstacles around, the dock can be directly installed on the ground using expansion bolts.

Alternate Landing Site Requirements
It is necessary to set up an alternate landing site near the dock. When there is an issue with the dock or the aircraft cannot land due to external bad weather or equipment failure, the aircraft will hover until low battery level occurs and then flies to the alternate landing site and lands.

- When choosing the alternate landing site, consider the clearance needed during the aircraft landing process. Make sure there are no obstacles 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, which is at the same height and has a straight-line distance of 5-50 m from the dock.
• 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 the building, make sure not to set it in the corner of a roof in order to avoid the aircraft from accidentally crashing.
Lightning Protection and Grounding Requirements

Lightning Protection System
The lightning protection system is mainly composed of an earth-termination system, a down-conductor system, and an air-termination system such as a lightning rod, a lightning protection belt, or a lightning protection net. When the air-termination system is struck by a direct lightning flash, the electrical current will quickly discharge to the earth through the down-conductor system and the earth-termination system.

The protected region of the air-termination system can be calculated using the rolling sphere method. The rolling sphere method assumes that there exists an imaginary sphere of radius $h_r$ above the ground surface. This imaginary sphere rolls on the grounded metallic objects that can provide lightning shielding, such as lightning masts, shield wires, and substation fences. A device remained within the imaginary sphere is said to be protected from a direct lightning flash.

Take the scenario with only one lightning rod standing on a flat surface for example, the maximum safe distance that the dock can be placed from the lightning rod needs to meet the following requirements:

$$R_X = \sqrt{h(2h_r - h)} - \sqrt{h_X(2h_r - h_X)}$$

Where:
- $R_X$ is the maximum safe distance that the dock can be placed from the lightning rod.
- $h_X$ is the height from the top of the dock to the ground when the dock cover is closed.
- $h$ is the height of the lightning rod.
- $h_r$ is the radius of the imaginary rolling sphere. This depends on the lightning density and the standard given in the following table.

<table>
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<tr>
<th>Protection Level</th>
<th>Rolling Sphere Radius (m)</th>
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<tr>
<td>Type 1</td>
<td>30</td>
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<tr>
<td>Type 2</td>
<td>45</td>
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<tr>
<td>Type 3</td>
<td>60</td>
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If the dock is not under the protection of the nearest lightning rod, a designated lightning protection system should be designed by a qualified professional.
Earth-termination System

The earth-termination system is an important part of the lightning protection system that can discharge the electrical current to the earth. Use an earthing resistance meter to measure the earthing resistance, and make sure that the earthing resistance for the dock is less than 10 Ω. It is recommended to use an existing outdoor earth-termination system when installing the dock. Once the distance between the earth-termination system and the dock is greater than 1 m, install the 40 mm × 4 mm flat steel within 1 m of the dock and connect it to the earth-electrode electrode. If there is no existing earth-termination system, additional earth electrodes and installation is required. Follow the below descriptions for producing and installing the earth electrode.

A. Requirements for producing and installing the earth electrode
   • It is recommended to produce the vertical earth electrode using hot-dip galvanized steel, copper or copper-clad steel. The recommended length of the vertical earth electrode is 1.5-2.5 m according to the soil quality and geographical conditions around the earth electrode.
   • The earth electrode number is determined by the size of the earth-electrode network and the geographical environment. The distance between any two vertical earth electrodes should not be less than 5 m. When using an earth-electrode network, make sure its four corners use the vertical earth electrodes.
   • If using angled steel, make sure one end is pointed, which can be made by using oblique cutting.
   • When installing the earth electrode under the ground, the depth should generally be no less than 0.7 m (the distance between the upper end of the earth electrode and the ground surface). In cold weather regions, the earth electrode should be installed below the permafrost layer. In areas with thin gravel soil, the installation depth of the earth electrode should be determined according to actual conditions.

💡 • When using an earth resistance meter, make sure to operate it according to its instructions, and to perform short-circuit zero calibration on the meter before performing the measurement.
   • If the earth resistance does not meet the requirements of the dock installation, it is recommended to use multiple earth electrodes and apply a long-term resistance-reducing liquid or use a special earthing rod.
   • If the earth resistance is less than 10 Ω, the lightning protection system can be used for the other earth-termination systems.

B. Earth Electrode Specifications

When the earth electrode is made of hot-dip galvanized steel, the length depends on the needs of the installation, and the specifications are as shown below.

<table>
<thead>
<tr>
<th>Earth Electrode Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Pipe</td>
<td>Thickness no less than 3.5 mm</td>
</tr>
<tr>
<td>Angle Steel</td>
<td>No less than 50 mm × 50 mm × 5 mm</td>
</tr>
<tr>
<td>Flat Steel</td>
<td>No less than 40 mm × 4 mm</td>
</tr>
<tr>
<td>Round Steel</td>
<td>Diameter no less than 10 mm</td>
</tr>
</tbody>
</table>
Power Supply and Cable Requirements

Power Supply Requirements

When using the dock, an external AC power supply needs to be connected to dock. The power supply requirements are as shown below:

- The electrical connection should comply with local laws and regulations.
- Make sure to use a stable power supply without frequent power outages.
- Make sure the voltage and frequency of the AC power meets the dock operation requirements:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>Single-Phase AC</td>
</tr>
<tr>
<td>Rated Input Voltage</td>
<td>100-240 VAC</td>
</tr>
<tr>
<td>Max. Input Voltage</td>
<td>264 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Power</td>
<td>Max. 1500 W</td>
</tr>
</tbody>
</table>

- When supplying power to the dock, make sure to install a separate 2P 16A earth leakage circuit breaker and a 40kA surge protection device in the user distribution box.

Cable Requirements

Make sure to lay the cables connecting the dock to the external power supply through protective pipelines.

A. Cable Connection Suggestion

The recommended overall connection is shown below.
B. Power Cable Requirements

- Make sure the ends of the power cables are crimped with pin terminals, which make it more convenient when connecting the cables to the earth leakage circuit breaker.
- If the user distribution box is more than 50 m away from the dock, it is recommended to install an additional outdoor waterproof distribution box near the dock for convenient maintenance and other equipment to draw power.
- Make sure the power cable length and cross-sectional area meet the following requirements:

<table>
<thead>
<tr>
<th>Power Cable Length</th>
<th>Cross-sectional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;100 m</td>
<td>three-core outdoor sheathed copper core cable of 13AWG (2.5 mm²)</td>
</tr>
<tr>
<td>100-200 m</td>
<td>three-core outdoor sheathed copper core cable of 11AWG (4 mm²)</td>
</tr>
<tr>
<td>&gt;200 m</td>
<td>three-core outdoor sheathed copper core cable of 9AWG (6 mm²)</td>
</tr>
</tbody>
</table>

C. Protection Pipeline Laying Requirements

- Make sure the outdoor cables are laid with PVC pipes and are installed under the ground. In the situation that the PVC pipes cannot be installed under the ground (such as on the top of a building), it is recommended to use galvanized steel pipes fastened to the ground and to make sure that the steel pipes are well grounded. The inner diameter of the PVC pipes should be at least 1.5x the outer diameter of the cable, while taking the protective layer into consideration.
- Make sure that there are no joints in the cables within the PVC pipes and that the joints of the pipes are waterproofed, and the ends are well sealed with sealant.
- Make sure the power cable and the Ethernet cable are separated into different PVC pipes, and the PVC pipes are not installed near the water pipes, heating pipes or gas pipes with a distance of no less than 30 mm.
- Make sure that the PVC pipe that is laid through the bottom of the dock and has an outer diameter of no more than 25 mm.
Waterproof Distribution Box

A. If necessary, make sure to install an outdoor waterproof distribution box that meet the requirements as shown below:

- Make sure the waterproof distribution box is securely installed and that the bottom of it is at least 500 mm above the ground to avoid flooding.
- Make sure the waterproof distribution box is installed on the side with the incoming power cable that leads from the dock electrical cabinet for a secure cable connection and dock configuration.
- Make sure the waterproof distribution box is more than 1 m away from the dock in order to avoid affecting aircraft takeoff and landing.
- Make sure the lead-in and lead-out cables of the waterproof distribution box are protected using PVC pipes that are installed under the ground, and that the joints between the pipe and the distribution box are properly waterproofed and sealed with sealant.
- Make sure both the earth wires of the outlet in the waterproof distribution box and the lead-out cables of the dock are properly connected to the waterproof distribution box and well grounded.

B. The recommended electrical components in the waterproof distribution box are shown as below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterproof Distribution Box</td>
<td>Contains various electrical components and provides waterproof protection.</td>
</tr>
<tr>
<td>Ground Bus Bar</td>
<td>Connects the earth wires of the lead-in cable, the socket, the lead-out cable, and the enclosure of the waterproof distribution box if the waterproof distribution box is made of metal.</td>
</tr>
<tr>
<td>C16 Earth Leakage Circuit Breaker</td>
<td>Connects the dock to supply power.</td>
</tr>
<tr>
<td>C10 Earth Leakage Circuit Breaker</td>
<td>Connects the socket in the waterproof distribution box to supply power.</td>
</tr>
<tr>
<td>DIN Rail Mount Socket of 10A</td>
<td>Provides power for other devices such as the ethernet device, hammer drill, laptop, mobile phone charger for convenient on-site installation and configuration.</td>
</tr>
</tbody>
</table>
Network Requirements

When using the dock, it needs access to the Internet, connect to the internet by using an Ethernet or a 4G wireless network. The dock can also use the 4G wireless network as a backup to the Ethernet connection. When both networks are connected, the Ethernet connection will be used in priority.

* 4G network service is not available in some countries or regions. Please consult your local distributor for details.

Ethernet Connection

The requirements when connecting to the Ethernet are shown as below:

- It is recommended to use category 5e (Cat5e) or above twisted pair cable as the Ethernet cable.
- Make sure to use and install PVC pipes under the ground for outdoor cables. For situations where PVC pipes cannot be installed under the ground, use galvanized steel pipes that are fastened to the ground and ensure that the pipes are well grounded. Make sure to lay the Ethernet cable during construction to facilitate quick dock installation.
- Make sure the power cable and the Ethernet cable are separated in different PVC pipes, and that the PVC pipes are not installed near water pipes, heating pipes, or gas pipes.
- Select the appropriate connection method according to the distance between the user computer room and the dock.

A. If the distance is less than 80 m:

Make sure to install a data and signal surge protector device to the lead-out cable from the user computer room, so as to protect the network devices from being damaged by lightning strikes and ensure stable data transmission. Follow the instructions as shown below for installation.

a. Use a Cat5e or above twisted pair cable and crimp the Cat5e pass through connectors at the end.

b. Install a surge protector device in the grounded rail with reliable contact, and make sure that the earth wire is properly connected to the ground.

c. Use the Ethernet cable, connect the IN end of the surge protector device to the dock and the OUT end to the network devices such as a network switch and router. Make sure the IN and OUT ends are properly connected, otherwise the surge protector device may be damaged and the surge protection will not work.
B. If the distance is more than 80 m:

Use a fiber optic solution and install a fiber optic transceiver. Choose a fiber optic transceiver that meets the transmission distance requirements, so as to avoid the mismatch between the transmission distance and the transceiver, which may result in network instability or even loss of connection.

- It is recommended to use a Gigabit network with an upstream and downstream bandwidth greater than 10 Mbps, to ensure a better user experience, it is recommended to be greater than 40 Mbps. Use a laptop to measure the network speed using a speed measurement website when the network port is connected.
Other

Protective Fence
Make sure to install a protective fence to ensure the safety of pedestrians and prevent theft of the product so that unauthorized personnel cannot enter the area where the dock is installed.

Protective Fence Requirements

⚠️ • Operators who enter the protective fence area need to undergo professional training and fully understand the precautions and risks of various operations.
 • Make sure that no flight plan is executed on DJI FlightHub 2 and that the aircraft has landed inside the dock before entering the protective fence area when operating the dock on site. After entering the area, make sure to press one of the emergency stop buttons of the dock.

• According to laws and regulations, the protective fence dimensions must not be less than 3 m × 2.6 m × 1.6 m (Length × width × height) and the fence panel spacing must be between 0.04-0.12 m.
 • Make sure the protective fence is stable after installation, and that a door is installed for personnel to enter for inspection and maintenance. Make sure the door is locked to prevent unauthorized personnel from entering.
 • Make sure that a warning sign that states Danger: Risk of Mechanical Equipment Injury is fixed to the outside of the fence clearly.
 • Make sure to use fiber-reinforced plastic or non-metallic fencing for minimal impact on the video transmission signal and RTK signal.

💡 • The protective fence needs to be purchased and installed by the user or service provider. DJI does not provide this item.

Third-Party Security Camera
An additional third-party security camera can be installed according to security monitoring requirements.

💡 • The dock provides a built-in ultra-wide-angle camera in the wind speed gauge module, which is installed on the dock cover. Third-party security cameras need to be purchased and installed by the user or service provider. DJI does not provide this item.
DJI Dock Installation and Connection

⚠️ Make sure to contact a DJI authorized service provider for installation. There may be potential safety hazards if the product is installed by the user. Contact DJI Support for more information on DJI authorized service providers.

Getting Started

In the Box
Check that all of the following items are included in the package.

- Dock Body ×1
- Aircraft* ×1
  with microSD Card inserted
- Wind Speed Gauge Module ×1
- Triangular Key ×1
- Expansion Bolt ×4
- Sealant ×1
- Manuals
  In the Box
  Safety Guidelines
  Quick Installation Guide

* The M30 Dock Version and M30T Dock Version are equipped with different cameras. Refer to the actual product purchased. Aircraft batteries are packaged and delivered separately, and must be purchased additionally.

Accessories

- USB-C Cable ×1
- 1671 Propeller (CW) ×2
- 1671 Propeller (CCW) ×2
- Cable Ties
- Screws and Tools
  - PH0 2.5 mm
  - M1.4
  - M3
  - M2.5
  - 2 mm
  - 3 mm
  - M3
User Prepared Tools and Items

Below are the tools and items used during installation and configuration, make sure to prepare them in advance and ensure that the tools work properly.

- Adjustable Wrench
- Hex Key
- Steel Blade Measuring Tape
- Hammer Drill
- Claw Hammer
- Digital Level
- Earthing Resistance Meter
- Multimeter
- Voltage Tester
- Diagonal Cutting Pliers
- Wire Strippers
- Pin Terminal
- Pin Terminal Crimping Pliers
- Electrical Tape
- Insulated Handle Screwdriver
- Cat5e Pass Through Connector
- Cable Crimping Pliers
- Laptop
- DJI RC Plus*
- Cable Reel (optional)
- Pallet Jack (optional)
- Electric Power Drill (optional)

* The DJI RC Plus must be updated to the latest firmware version. The remote controller needs to be activated before first use. Make sure the remote controller has access to the internet during activation.
Transportation and Temporary Storage

⚠️ • Make sure the dock is transported by a professionally trained operator. Operators should read this manual carefully. If the dock is damaged due to failure to store, transport, install, or use according to the instructions in this manual, it will not be covered by the warranty.

Carrying and Transporting the Dock

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

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

A. Carrying and transporting the dock manually

When moving or lifting the dock, carefully lift the dock at the parts indicated in gray marked with arrows in the diagram or hold the mounting base of the dock. DO NOT apply force on the dock cover or other areas of the dock to avoid damage to the dock.

B. Carrying and transporting the dock using a pallet jack

Make sure the pallet jack is centered underneath the dock to prevent overturning. When moving the dock, make sure there is a person at the side of the dock to keep it safe.

Lifting the Dock

⚠️ • The operator who performs the lifting operation needs to undergo professional training and can only work after obtaining the required qualification.

• Make sure the tools used for lifting the dock meet the standards and service life requirements.

• DO NOT walk under the dock when it is lifted. Make sure to keep a safe distance from the dock when it is moved to avoid injury from it from falling, rolling, or swinging.

It is recommended to use a crane cage to lift the unpacked dock (the crane cage needs to be prepared by the lifting company and brought to the lifting site in advance). Otherwise, use the rigging to lift the dock, make sure to select the correct lifting positions, connect the rigging securely, and then try to lift it.
Temporary Storage
If the dock is not to be used immediately, follow the requirements as shown below for temporary storage:

- Store it in a dry, rainproof, and fireproof place with no corrosive materials around.
- Protect it from erosion and damage caused by wildlife.
- Make sure to check that the outer packaging of the dock is in good condition regularly. Make sure to charge the backup battery for at least 6 hours every three months.
- If the dock is removed from being stored but not used for a period, place it in a waterproof bag sealed with adhesive tape and then put it into its original packaging with a desiccant.
- DO NOT tilt or invert the dock or place items on top of the box when the dock is inside.

Backup Battery Charging Steps

⚠️ • Only those who hold the certificates issued by the local department can carry out above safety voltage operations.
• Make sure to pay attention to safety during operation in order to avoid an electric shock.
• Make sure that PE, N, and L cables are connected properly.

To charge the backup battery, follow the steps below.
1. Use the triangular key to open the electrical cabinet door of the dock.
2. Use a 3 mm hex key to loosen the four screws and remove the electrical cabinet plate.
3. Connect the three-core cable to the terminals of the AC power input port in the electrical cabinet in sequence according to PE, N, and L.
4. Turn on the AC power switch (A) to power on the dock. Turn on the backup battery switch (B) to charge the backup battery.

💡 • The backup battery cannot be charged when the temperature is higher than 40° C (104° F) or lower than -20° C (-4° F).
Unpacking and Inspecting the Dock

Manually Opening the Dock Cover

⚠️ • DO NOT apply force or place heavy objects on the electrical cabinet door after opening.
• DO NOT apply force on the side of the dock covers in order to avoid any damage when opening or closing.
• DO NOT apply force or place heavy objects on the top of the dock covers after opening.

1. Remove the box lid and then open the box, take out the manuals and the triangular key, and then pull the sides of the box upwards to remove the box. Use the triangular key to open the electrical cabinet door.

2. Turn on the backup battery switch to supply power to the dock. After the dock is powered on, the buzzer sounds and the status indicators on the dock covers flash.

3. When opening the dock cover, press and hold the dock cover manual release button and hold the connection between the cover arm and the cover shown in the diagram. Make sure to open the right and left covers in turn. **Make sure to control the dock cover descent speed by holding the cover at all times to avoid personal injury or damage to the mechanism caused by sudden movements.**

Checking the Items Inside the Cover

1. Take out the packaging foam from inside the dock cover and remove the top cover of the foam.
2. Check the aircraft, accessory kit, expansion bolts (under the sealant box), and wind speed gauge are included according to the In the Box list.
3. Press and hold the dock cover manual release button, hold the connection between the cover arm and the cover, and then pull to close the left cover and then the right cover in turn.
4. Turn off the backup battery switch and close the electrical cabinet door.

💡 If there are any abnormalities, missing items, or inconsistencies, make sure to record on-site and contact your device carrier and device supplier.

- Make sure to pack the aircraft in its original packaging or to remove it from the dock for separate transportation when transporting the unpacked dock.
Dock Installation

Confirming the Installation Orientation
Make sure to consider the below factors before installing the dock:

- If there is frequently occurring strong wind in one direction at the installation site, make sure to avoid the wind speed gauge module being installed downwind, so as to prevent the aircraft from taking off and landing too close to the wind speed gauge module in a windy environment.
- Make sure the integrated security camera orientation is not facing direct sunlight, otherwise the service life and camera view may be affected due to the environment.
- Make sure there are no obstacles blocking the dock covers.
- To avoid false detection when the aircraft lands, make sure that there are no light-colored objects similar to the shapes or visual identification marks on the landing pad within 5 m of the dock, such as white rectangles, white triangles, and H patterns.
- If multiple docks are installed at the same location, the distance between each dock should be at least 5 m.

Installing the Expansion Bolts

⚠️ 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 any electric tools.

The following installation instructions use a concrete base as an example.

1. Place the box lid with the installation hole signs facing upward at the location where the dock is installed and adjust the orientation and position accordingly.
2. Align the hammer drill (drill diameter Ø14 mm) with the installation hole signs, keep the hammer drill vertical to the ground and drill four installation holes with a depth of 55-60 mm. Remove the box lid after drilling, make sure to clean up the surrounding debris to avoid it from falling into the hole.
3. Slightly tighten the nuts of the four expansion bolts provided, put them vertically into the installation holes, and tap the bolts with a claw hammer until the expansion tubes are submerged into the installation holes.
4. After pre-tightening the screw bolt until it does not rotate, unscrew the nut, spring washer, and flat washer.
Mounting the Base Brackets

⚠️ • DO NOT put hands under the mounting base bracket during adjustment to avoid injury if it is difficult to align the expansion bolt with the hole of the mounting base bracket, and the position of the dock needs to be adjusted.

1. Use an adjustable wrench to remove the four bolts from the mounting base brackets.
2. Carefully lift the dock at the parts indicated in gray marked with arrows in the diagram. Move the dock to the installation location, align the four mounting base bracket holes with the expansion bolts, and then put it down slowly. It is recommended that at least four people carry it. Read the Transportation and Temporary Storage section for more information on how to carry and lift the dock.
3. Place the digital level on the top of the dock for measurement. If the inclination exceeds 5°, use metal gaskets or other materials to fill the base bracket that needs to be raised.
4. Install the flat washer, spring washer, and nut of the expansion bolt in sequence, and tighten the nut with an adjustable wrench.
Accessories Installation

⚠️ Make sure that the status indicators on the dock covers are off, to ensure that the dock is powered off before mounting and connecting.

Mounting the Wind Speed Gauge Module

1. Remove the cover of the wind speed gauge module mount on the top of the dock cover.

2. Use a 2.5 mm hex key to remove the two screws on the wind speed gauge module bottom and store them properly, then connect the signal cable of the dock to the port on the wind speed gauge module bottom, and tighten the screws.

2. Align and insert the wind speed gauge module into the mount on the dock cover. Make sure the ultra-wide-angle camera of the wind speed gauge module is facing the landing pad.

3. Rotate the wind speed gauge module lock sleeve in a clockwise direction until hearing a "click" to complete the installation. Make sure that the installation mark on the wind speed gauge module locking sleeve is aligned with the line on the wind speed gauge module.
Connecting the Dock

The electrical connection is to connect the external cables to the electrical cabinet for dock grounding, power supply and Ethernet connection.

1. After opening the door of the electrical cabinet, use a 3 mm hex key to loosen the four screws and remove the electrical cabinet plate.

2. Make sure to lead the pre-embedded connecting cables through the PVC or corrugated pipes and then pass them through the cable holes at the bottom of the electrical cabinet. Make sure that the external pipe joints are waterproofed.

3. Connect the earth wire, power cable, and Ethernet cable to the electrical cabinet in sequence according to the following requirements.

- Make sure to use the low temperature resistant cables when the dock is installed in low temperature areas.
- Make sure the power cable length and cross-sectional area meet the requirements as described in the Power Supply and Cable Requirements section.

A. Connecting the Earth Wire

- The dock must be properly grounded by following the below requirements.
- Check that the design and construction of the earth-termination system meet the requirements before installation. Make sure that the earthing resistance between the earth and the earth-termination system connected to the dock is less than 10 Ω by using an earthing resistance meter for measurement.

1. Make sure to use 16mm² diameter wire for an the earth wire when grounding.* Make sure that the earth wire is not longer than 1 m and both ends are crimped with terminals. Keep the earth wire as short and straight as possible, and avoid coiling or intertwining with signal cables.

2. Lock one end of the earth wire to the terminal of the ground bus bar inside the electrical cabinet using a 5 mm hex key. Pass another end through the cable hole, connect to the lead-out pole of the earth electrode, and tighten it with a screw.

* The color of the earth wire varies by country and region.
B. Connecting the Power Cable

⚠️ • Only those who hold the certificates issued by the local department can carry out the above-safety-voltage operation.

• Before the operation, make sure to turn off the main switch in the distribution box and hang a sign to prohibit turning on the switch.

• Use a multimeter or a voltage tester to measure the electricity at the end of the power cable. DO NOT operate with an electrical current.

1. Lead the pre-embedded power cable through the cable hole at the bottom of the electrical cabinet and reserve the proper length for connection.

2. Use the diagonal cutting pliers to remove about 70 mm of the cable insulation layer and then use the wire strippers to remove about 8 mm of the wire insulation layer. Insert the three wire ends into the pin terminals and crimp them with the cable crimping pliers. Wrap and cover the connection of the cable insulation layer and the wire insulation layer with electrical tape to about 10 mm in length.

3. Insert the PE (protective earth wire), N (neutral wire), L (live wire) terminals* of the power cable into the AC power input port in sequence and tighten them using a flathead screwdriver with an insulated handle. Finally tidy and fix the power cable using cable ties.

* The color of PE, N and L wires 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.
C. Connecting the Ethernet Cable

⚠️ Make sure to install a data and signal surge protector device in the user computer room and that it is properly grounded. Refer to the Network Requirements section for more information.

1. Lead the pre-embedded Ethernet cable through the cable hole at the bottom of the electrical cabinet and reserve the proper length for connection.

2. Use category 5e or above shielded twisted pair cable and crimp it to the category 5e pass through connectors by following the T568B wiring standard. Make sure that the shielded metal mesh of the cable is connected to the metal shell of the pass through connector, the PVC surface of the cable is effectively inserted into the connector, and that the inner wire is not exposed.

3. Insert one end of the Ethernet cable to the Ethernet port, and then tidy and fix the cable with cable ties. Make sure another end is properly and securely connected to the device in the user computer room.

💡 Make sure the network is able to access Internet with an upstream and downstream bandwidth greater than 10 Mbps.

Sealing the Holes

Use the provided sealant to seal the holes at the bottom of the electrical cabinet where the cables have passed through. Make sure that the sealant completely covers the holes and securely seals.
Powering on the Dock

Before Powering On Checklist

<table>
<thead>
<tr>
<th>Checklist</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth Wire</td>
<td>☐ The two ends of the earth wire are properly connected, and the screws are</td>
</tr>
<tr>
<td></td>
<td>securely tightened.</td>
</tr>
<tr>
<td>Power Cable</td>
<td>☐ The protective earth wire, neutral wire, and live wire are securely connected</td>
</tr>
<tr>
<td></td>
<td>and the wire sequence is correct.</td>
</tr>
<tr>
<td></td>
<td>☐ The power cable connectors and the terminals are securely tightened.</td>
</tr>
<tr>
<td></td>
<td>☐ The cables are neatly tied.</td>
</tr>
<tr>
<td>Ethernet Cable</td>
<td>☐ Wire sequence in the pass through connector is correct by following the</td>
</tr>
<tr>
<td></td>
<td>T568B wiring standard.</td>
</tr>
<tr>
<td></td>
<td>☐ The PVC surface of the cable is effectively inserted into the connector,</td>
</tr>
<tr>
<td></td>
<td>and the inner wire is not exposed.</td>
</tr>
<tr>
<td></td>
<td>☐ The pass through connectors are securely inserted in the network ports.</td>
</tr>
<tr>
<td>The Dock</td>
<td>☐ The dock is properly installed with a tilt angle of less than 5°.</td>
</tr>
<tr>
<td></td>
<td>☐ The inside of the electrical cabinet is clean and tidy, without dust, dirt,</td>
</tr>
<tr>
<td></td>
<td>or items left inside.</td>
</tr>
<tr>
<td></td>
<td>☐ Pull out the emergency stop buttons on both sides of the dock and make</td>
</tr>
<tr>
<td></td>
<td>sure they are released.</td>
</tr>
<tr>
<td>The Surrounding</td>
<td>☐ The area around the dock has been cleared of packaging materials such as</td>
</tr>
<tr>
<td>Environment</td>
<td>cartons, foam, plastic, and cable ties.</td>
</tr>
<tr>
<td></td>
<td>☐ No obstacles block the dock covers when they are opened.</td>
</tr>
</tbody>
</table>

Powering On and Checking

1. After completing the before powering on checklist, turn on the upstream main switch in the user distribution box and use a multimeter to measure the dock’s AC power input at the terminals N (using the black test lead) and L (using the red test lead) to ensure that the voltage meets the requirements.

2. Turn on the surge protector circuit breaker (A), AC power switch (B), and backup battery switch (C) in the electrical cabinet in sequence.

3. Within 30 seconds, the electrical cabinet should display as follows. Otherwise, troubleshooting is to be performed.
<table>
<thead>
<tr>
<th>Electrical Cabinet Indicators</th>
<th>Normal States</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Indicator</td>
<td>Solid red</td>
<td>AC power supply is normal.</td>
</tr>
<tr>
<td>Backup Battery Indicator</td>
<td>Solid blue</td>
<td>Backup battery is full or is supplying power to the dock.</td>
</tr>
<tr>
<td></td>
<td>Blinks blue slowly</td>
<td>Backup battery is charging.</td>
</tr>
<tr>
<td>Wired Network Indicator</td>
<td>Blinks green quickly</td>
<td>Ethernet is connected and has data transfer with the dock.</td>
</tr>
<tr>
<td>4G Network Indicator</td>
<td>Blinks green quickly</td>
<td>4G network is connected and has data transfer with the dock.</td>
</tr>
</tbody>
</table>

⚠️ The surge protection device needs to be repaired or replaced if the indicator turns red or it unexpectedly turns off.
Preparing the Aircraft

Preparing the Aircraft

1. Make sure that the propellers are securely mounted and not damaged or deformed, there are no foreign objects in or on the motors or propellers, the aircraft arms are unfolded, and that the frame arm folding buttons are popped out into the locked position.

2. Make sure the lenses of the vision systems, gimbal cameras, FPV camera, glass of the infrared sensors, and auxiliary lights are clean and not blocked in any way and that the protective stickers are removed.

3. Make sure the waterproof rubber port covers are properly and securely sealed in place.

4. Make sure the gimbal camera is facing forward.

Installing the Battery and Checking the Battery Level

Insert two TB30 batteries. Make sure the battery release toggles are in the same position as shown in the diagram.

Press the battery level button once to check the current battery level.
Configuring the Dock Using DJI Pilot 2

⚠️ • DO NOT move the configured dock. If the site changes, the dock needs to be reconfigured.
  • Make sure to keep a safe distance from the dock cover when opening using DJI Pilot 2 in order to avoid injury. Press any of the emergency stop buttons on the dock to stop the dock covers from opening, if necessary.
  • It is recommended to close the dock cover in the app or FlightHub 2 when the aircraft is placed in the dock. Make sure to move the two blades of each motor to be at 90° with each other in order to avoid breaking the propellers when manually closing the dock cover.

Installation Checking

1. Use the USB-C cable included to connect the USB-C port of the remote controller to the USB-A port of the dock electrical cabinet.
2. Power on the remote controller, run DJI Pilot 2, and follow the installation steps prompted. Check each step to ensure correct installation and connection.

Pre-Deployment Checklist

1/4
Remove electrical cabinet panel. Do not touch metal end of cables
1. Make sure PE (protective earth), N (neutral), and L (live) wires are properly connected
2. If dock is connected via Ethernet cable, make sure cable is connected the same as shown

⚠️ Warning. Risk of electric shock
Configuring the Network of the Dock

Perform the network configuration according to the prompts in the app and the actual network conditions.

![Network Configuration]

Connecting the Dock and the Aircraft

The aircraft and the dock have been linked before delivery when they are purchased as a combo.

1. If the aircraft cannot be powered on due to low battery level, place the aircraft on the landing pad with the aircraft nose pointing to the arrow printed on the landing pad, and then tap the Charge button in the app to charge the aircraft.

2. Tap the Link button in the app to connect the dock and the aircraft by following the onscreen instructions in the app. During the linking process, the status indicator on the dock covers will blink blue slowly, and the buzzer emits a beeping sound.

![Connect to Aircraft]
Activation

Make sure the aircraft is linked to the dock. Activate the dock and the aircraft by following the instructions in the app.

💡 The aircraft and the dock require activation before first time use. An internet connection is required for the remote controller during activation.

Configuring the Cloud Service

The automatic operation of the dock bundle needs to be performed using the cloud service. Bind the dock and aircraft to DJI FlightHub 2 using DJI Pilot 2.

Getting the Device Binding Code

1. Use a computer to visit https://fh.dji.com, and log in to DJI FlightHub 2 using a DJI account. Click to create an organization, fill in the organization information, and click the created organization name to enter the organization page.
2. Click Devices > Dock > Device Binding as shown in the diagram to obtain the organization ID and device binding code.
Binding to DJI FlightHub 2
Fill in the information in DJI Pilot 2 with the obtained organization ID and device binding code to bind the dock and aircraft to DJI FlightHub 2.

- They can also be bound to a third-party cloud platform according to actual needs. Click the third-party cloud service in the cloud service drop-down list, and follow the prompts in the app to bind.
Calibrating the Dock Location

Make sure that the built-in RTK module of the dock can obtain accurate coordinates and calibrate the dock location to obtain an accurate absolute position.

1. Before calibration, make sure that the dock covers are opened and the driving rods are pulled back. Tap Open Dock button in the app to open the dock covers and pull the driving rods back. Remove any objects from the Dock's landing pad. Make sure the built-in RTK antenna area on the landing pad is not covered. During calibration, stay away from the dock to avoid the RTK antenna being blocked.

2. Custom network RTK calibration and manual calibration are available. Custom network RTK calibration is recommended to obtain better accuracy and simplify the operation. Make sure the remote controller is connected to the Internet during calibration.

3. Wait until the app displays the calibration results as converged and fixed.
• The dock location calibration data is valid for a period. There is no need to calibrate it when the dock is restarted. However, re-calibration is required once the dock is moved.

• After the dock location is calibrated, the RTK positioning data of the aircraft may suddenly change. This is normal.

• To ensure the accuracy of flight operations, make sure that the RTK signal source used during flight is consistent with the RTK signal source used during the dock location calibration when importing flight routes using DJI FlightHub 2. Otherwise, the actual flight trajectory of the aircraft may deviate from the planned flight route, which may lead to unsatisfactory operation results or even cause the aircraft to crash.

• When the dock is connecting to the remote controller and the dock covers are opened using DJI Pilot 2, make sure to keep a safe distance from the dock cover movement mechanism to avoid injury. Press any of the emergency stop buttons on the dock to stop the dock cover moving, if necessary.
Setting the Alternative Landing Site

When the dock or the aircraft fails or is affected by external bad weather, the aircraft cannot land at the dock, however it can fly to and land at an alternate landing site. Follow the prompts in the app to set an alternate landing site, pay attention to the following requirements:

1. Tap Set Alternate Landing Site in the app and follow the prompts to operate. Make sure the alternate landing site is not too far away, otherwise it will affect the flight operation endurance.
2. Set a reasonable Alternate Route Altitude to ensure that there are no obstacles when the aircraft flies from the dock to the alternate landing site to avoid collisions.
Completing the Configuration

Make sure the driving rods on the landing pad are pulled back, the aircraft heading is consistent with the arrow mark on the landing pad, and the aircraft is placed on the landing pad, move the two blades for each motor to be at 90° with each other as shown in the diagram to complete the configuration.

Aircraft Heading
Using Dock Onsite Debugging

Dock Onsite Debugging in DJI Pilot 2 provides the dock status, the aircraft status, and operations such as linking aircraft, charging aircraft, and controlling dock and driving rods.

1. Dock Status
   Displays information such as the running time, flights, air conditioner status, input voltage, inside temperature or humidity, outside temperature, rainfall scale, and wind speed. Tap Linking to enter the aircraft and dock linking page.

2. Aircraft Status
   Displays information such as aircraft is inside dock or not, battery temperature, and battery level.
3. Control Console
   Supports the control of the dock covers, driving rods, dock sound and light alarms, aircraft battery charging status, aircraft powering on and off.

4. Flight Restriction Information
   Imports the applied GEO Zone Unlocking License in the app to ensure smooth subsequent operations.

5. Maintenance Service
   Provides historical flight data to help users determine if maintenance is required.

6. DJI Care Enterprise
   Relevant information can be viewed if the device is bound to DJI Care.

7. Reconfiguring the Dock
   Tap to re-configure the dock.

・Make sure the dock is properly functioning before disconnecting the USB-C cable.

### Connecting the Remote Controller as Controller B

To ensure the safety of the flight test for the dock, the remote controller can be used to take control of the aircraft manually during flight after connecting to the aircraft as controller B.

1. After disconnecting the USB-C cable, restart DJI Pilot 2, tap Controller A on the home screen, and select to switch to Controller B.

2. Power on the aircraft, press and hold the power button on the aircraft for at least five seconds, and wait for the remote controller to successfully link with the aircraft.

・Go to the camera view in DJI Pilot 2, tap to set the parameters for the flight controller, sensing system, remote controller, and battery.
Closing the Electrical Cabinet Door

Install the electrical cabinet plate onto the electrical cabinet panel with four screws. Close and lock the electrical cabinet door.
Automatic Operation Test

To ensure that the dock and aircraft are properly functioning, make sure to create a flight route and plan a flight task in DJI FlightHub 2, and then launch the flight task to allow the dock to perform the automatic operation test after completing the dock configuration in the app.

Binding the Dock to a Project

1. Use a computer to visit https://fh.dji.com, and log in to DJI FlightHub 2 using a DJI account.
2. Click Project > + in the project list, and then fill in the information to create a project.
3. Click Devices > Dock > Actions ➔ Edit as shown in the diagram and add the dock to the specified project in the drop-down box of the project.

- Click Members to add members and fill in the member account (DJI account), organization names, and roles.

Creating the Flight Route and Flight Plan

- When planning a flight route in DJI FlightHub 2, make sure to check the flight altitude. Fly with caution.

1. Click Project ➔ ➔ ➔ + on the flight route list to create a flight route, select M30 Series from the aircraft and payload list, and then click OK.
2. Click ➔ to add waypoints and waypoint actions, set flight route parameters in the flight route editor, and then save and exit.
3. Click ➔ Create Plan to display the diagram shown. Fill in the flight plan name, select the execution flight route and execution dock, set the Plan Timer to Immediate, set the RTH altitude relative to the dock, and the signal lost action during the flight, and click OK to complete the new flight plan.
Performing the Flight Task

⚠️ During the flight test, make sure the remote controller is connected to the aircraft as Controller B.

1. After starting to perform the flight task, the dock covers are opened, the driving rods are pulled back, and the aircraft takes off. The dock covers will be closed after the aircraft takes off.

2. Click Project > Team 🌍 to display the diagram shown, view the flight task status and warning information of the dock and aircraft in the left column. Click 📊 to open the device status window, and view the real-time status information and liveview of the dock and aircraft. On the map, view the planned route (in green) and the flight trajectory (in blue) of the aircraft.

3. After completing the flight, the aircraft flies above the dock, and the dock will automatically open the covers to allow the aircraft to land. After the aircraft lands, the dock pushes the driving rods forward into place and closes the covers.

4. After the flight task is complete, click 🖼️ to open the plan library, view the number of media files in the media upload bar, and click the corresponding number to open the media library to view the media files captured during flight.

💡 During the flight test, once the remote controller takes control of the aircraft, DO NOT update the Home Point in the app, otherwise the aircraft will not be able to return to the dock.


Alternate Landing Site Test

During the flight task, press any emergency stop button to test if the aircraft can fly to the alternate landing site. Once the emergency stop button is pressed, after completing the flight task, the aircraft will return to the top of the dock, and then fly to the alternate landing site at the alternate route altitude. During the flight test, make sure the remote controller is connected to the aircraft as Controller B.
Before Leaving Checklist

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

☐ The HMS of DJI FlightHub 2 has no abnormal alarm.
☐ The wind speed gauge module is mounted securely and the security camera orientation is correct.
☐ Check the wind speed gauge data displayed in DJI FlightHub 2 by rotating the wind speed gauge.
☐ The rain gauge surface is clear of dirt or foreign objects.
☐ Check the rain gauge data displayed in DJI FlightHub 2 by gently tapping the top of the rain gauge.
☐ The sealant completely covers the holes and seals the cables completely.
☐ The surge protector circuit breaker, AC power switch, and backup battery switch in the electrical cabinet are turned on.
☐ The electrical cabinet plate has been installed.
☐ The landing pad surface is clear of dirt or foreign objects.
☐ The aircraft is correctly placed on the landing pad.
☐ The waterproof rubber port covers are correctly in place and securely sealed.
☐ The lenses of the vision systems, gimbal cameras, FPV camera, glass of the infrared sensors, auxiliary lights are clean and that the protective stickers are removed.
☐ The driving rods on the landing pad are pushed forward into place.
☐ The dock covers are closed.
☐ The dock cover surface is clear of dirt or foreign objects.
☐ The electrical cabinet door is closed and locked.
☐ The aircraft alternate landing site test has been completed.
☐ Check whether the GEO Zone Unlocking License has been imported in DJI Pilot 2 (if any).

💡 • If the installed dock is left outside for an extended period, make sure to remove the aircraft from the dock and store it separately, and to charge the backup battery regularly.
## Appendix

### Status Indicators

The status indicators on the dock covers are used to display the current dock working status.

#### Normal States

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blinks white</td>
<td>The dock is working normally and the aircraft is ready to take off.</td>
</tr>
<tr>
<td></td>
<td>Blinks blue</td>
<td>The dock and the aircraft are linking, and the buzzer emits a short beep.</td>
</tr>
<tr>
<td></td>
<td>Blinks green</td>
<td>The aircraft has taken off from the dock and is performing a flight task.</td>
</tr>
<tr>
<td></td>
<td>Solid blue</td>
<td>The dock is updating or debugging (including remote debugging and on-site debugging).</td>
</tr>
</tbody>
</table>

#### Warning States

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blinks red</td>
<td>The dock covers are moving or the aircraft is taking off or landing, and the buzzer emits a long beep.</td>
</tr>
<tr>
<td></td>
<td>Blinks red and yellow alternately</td>
<td>Any of the emergency stop buttons on the dock is pressed.</td>
</tr>
<tr>
<td></td>
<td>Solid Red</td>
<td>The dock is malfunctioning.</td>
</tr>
</tbody>
</table>

### Electrical Cabinet Indicators

Electrical cabinet indicators are used to display the current status of dock power input, backup battery, Ethernet and wireless network connection.

- **Power Indicator**
- **Backup Battery Indicator**
- **Wired Network Indicator**
- **4G Network Indicator**

<table>
<thead>
<tr>
<th>Status Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Indicator</strong></td>
<td>Solid Red</td>
<td>AC power supply is normal.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>No AC power supply.</td>
</tr>
<tr>
<td><strong>Backup Battery Indicator</strong></td>
<td>Solid blue</td>
<td>Backup battery is fully charged or is supplying power to the dock.</td>
</tr>
<tr>
<td></td>
<td>Blinks blue slowly</td>
<td>Backup battery is charging.</td>
</tr>
<tr>
<td></td>
<td>Blinks blue quickly</td>
<td>Backup battery level is low.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Backup battery is not installed or the backup battery switch is off.</td>
</tr>
<tr>
<td><strong>Wired Network Indicator</strong></td>
<td>Blinks green quickly</td>
<td>Ethernet is connected and has data transmission.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Ethernet is disconnected.</td>
</tr>
<tr>
<td><strong>4G Network Indicator</strong></td>
<td>Blinks green quickly</td>
<td>4G network is connected and has data transmission.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>4G network is disconnected.</td>
</tr>
</tbody>
</table>
Lower Compartment Components

Use the triangular key to loosen the two bolts on the landing pad, hold the landing pad edge to lift it up. Make sure the support prop rod is holding the landing pad in a stable position.

 nuit  • Before closing the landing pad, make sure to hold the landing pad and push it back slightly to release the support prop rod, and then slowly lower it.
Using Third-Party Payloads

The aircraft provides a PSDK port for connecting a third-party payload and the dock reserves a space inside the cover for storing the third-party payload, which facilitates the expansion of the aircraft operating capabilities.

Third-Party Payload Requirements

- Installing a third-party payload will shorten the flight time and reduce the aircraft wind resistance. Make sure to install the payload as needed.
- The third-party payload should have the protection ability of IP43 or above not to reduce the working stability or the service life of the aircraft.
- The cable connector of the third-party payload connecting to the aircraft should have a waterproof rubber ring.


Installation Requirements

- To ensure the stability of the aircraft, use the DJI official original PSDK Mounting Bracket, and install the third-party payload properly according to the user guide. Visit https://www.dji.com/matrice-30/downloads to learn more about the PSDK Mounting Bracket.

- The size of the reserved storage space inside the dock cover is 150 mm × 150 mm × 100 mm (length × width × height). The height of the third-party payload must not exceed 80 mm if take into consideration the height of the PSDK Mounting Bracket.
- After installing the payload, make sure that the third-party payload does not block the aircraft vision system to avoid affecting the obstacle-sensing performance.
Connection Requirements
The third-party payload is connected to the aircraft PSDK port by inserting the connector with a waterproof rubber ring. If necessary, seal the PSDK port of the aircraft. As shown below.

⚠️ • Make sure to seal the port properly. If the seal fails and water leaks into the aircraft, it will seriously affect flight safety.
## Troubleshooting List

<table>
<thead>
<tr>
<th>Descriptions</th>
<th>Possible reasons</th>
<th>Troubleshooting instructions</th>
</tr>
</thead>
</table>
| The dock has no response after being powered on (the light on the dock cover is off, and there is no startup sound). | 1. The main power supply for the dock is abnormal or the power cable is damaged.  
2. The AC power switch of the dock is damaged or the dock has an error. | 1. Make sure the voltage of the N and L terminals of the dock AC power input is normal.  
2. Contact DJI authorized service provider for repair. |
| The circuit breaker in the user distribution box unexpectedly turns off.     | 1. The power cable connected to the dock has PE (earth wire), N (neutral wire), and L (live wire) wire sequence connection errors.  
2. There is a short circuit due to power cable damage. | 1. Correctly connect the PE, N, and L wires. Make sure to disconnect the main power supply before reconnecting the dock. Pay attention to safety.  
2. Disconnect the power cable from the dock first, and turn on the circuit breaker. |
| The dock cannot connect to the remote controller.                           | 1. Remote controller firmware version is not supported.  
2. The USB-C cable is damaged.  
3. The USB-C port of the remote controller is damaged.  
4. Electrical cabinet connector module of the dock has an error. | 1. Update the remote controller, dock, and aircraft to the latest firmware version.  
2. Check and replace the USB-C cable.  
3. Try another remote controller.  
4. Contact DJI authorized service provider for repair. |
| The dock RTK calibration failed.                                            | 1. Custom Network RTK service is not enabled.  
2. The RTK satellite signal is poor, as the dock may be obstructed.  
3. There is an error in the account information used to calibrate the custom network RTK service.  
4. The remote controller is not connected to the network or is connected to an unstable network.  
5. The dock has an error. | 1. Go to the homepage of DJI Pilot 2, tap Data and Privacy > Network Security Mode and then enable Network RTK Service.  
2. Make sure the area above the RTK antenna and around the dock is free of any obstructions.  
3. Make sure the account is valid and the information is correct.  
4. Make sure the remote controller is connected to the network and the network is stable.  
5. Contact a DJI authorized service provider for repair. |
<table>
<thead>
<tr>
<th>Issue</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Cannot set an alternate landing site for the aircraft.                | 1. The dock has no location information as the dock RTK has not completed the satellite positioning.  
2. The aircraft is placed too close or too far from the dock.  
3. The aircraft has no location information due to obstruction.  
4. The aircraft RTK positioning is not fixed.  
5. The video transmission between the aircraft and the dock is disconnected. | 1. Make sure the dock RTK has completed satellite positioning by viewing in DJI Pilot 2.  
2. Make sure the distance between the aircraft and the dock is proper according to the prompt in the app, and the distance should be 5-50 m.  
3. Make sure there are no obstructions around the aircraft when setting up the alternate landing site.  
4. Wait for the aircraft RTK position to be fixed.  
5. Make sure the video transmission between the aircraft and the dock is connected. |
| The dock cannot connect to DJI FlightHub 2.                          | 1. The DJI FlightHub 2 organization ID or binding code is incorrect.  
2. The dock is disconnected from the network.  
3. The dock has an error.                                                                 | 1. Make sure the organization ID and binding code are filled in correctly (note that they are case-sensitive)  
2. Make sure the network connection to the dock is functioning properly. Connect the network cable to the computer to check whether it can access the Internet.  
3. Contact DJI authorized service provider for repair.                     |
| The Live button on DJI FlightHub 2 is gray and cannot be clicked.    | The wind speed gauge is not connected.                                                                                               | 1. Make sure the connection of the wind speed gauge is reliable.                                                                          |
| The dock cannot connect to the Ethernet.                            | 1. Network connection has an error.  
2. The dock network configuration has an error.  
3. The dock has an error.                                                                 | 1. Make sure the network connection is normal, and the wire sequence in the pass through connector is correct.  
2. Make sure the network configuration is correct. If a static IP is set, set the DNS service to static at the same time. Otherwise, it will lead to network connection failure.  
3. Contact DJI authorized service provider for repair.                     |
Declaration of Conformity

**Product:** DJI DOCK  
**Model Number:** DOCK-01  
**Manufacturer's Name:** SZ DJI TECHNOLOGY CO., LTD.  
**Manufacturer's Address:** Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.

We, SZ DJI TECHNOLOGY CO., LTD. declare under our sole responsibility that the above referenced product is in conformity with the applicable requirements of the following directives and standards:


Signed for and on behalf of: SZ DJI TECHNOLOGY CO., LTD.  
**Place:** Shenzhen, China  
**Date:** 2023-05-04  
**Name:** Gary Zeng  
**Position:** Certification manager