

DJI FlightHub 2

User Guide

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Introduction

DJI FlightHub 2 is a cloud-based aircraft task management platform, providing member, device, annotation, model, media file, and flight task management functions. By planning flight routes on the web and distributing tasks to DJI Dock and supported aircraft, DJI FlightHub 2 makes remote access to real-time task information possible and improves team productivity and efficiency.

Before Using

Supported Devices

Supported devices include DJI Dock, Matrice 350 RTK, the Matrice 30 series, Matrice 300 RTK, DJI Mavic 3E, and DJI Mavic 3T. Using DJI Dock together with the Matrice 30 series dock version to perform flight tasks on DJI FlightHub 2.



- The Zenmuse H20 series are supported payloads. If a different payload is mounted onto the aircraft, some or all of the functions of DJI FlightHub 2 may not be supported.
-

Operating Requirements

1. Browsers that can run DJI FlightHub 2 should be Chrome 92 and above, Safari 13 and above, or Firefox 90 and above.
2. The DJI Pilot 2 app version should be later than v4.0. The app should be later than v6.1 if dock-related functions are used.

Roles and Permissions


There are five roles within an organization: super administrator, organization administrator, device maintainer, organization member, and temporary member. There can be multiple projects within an organization and each project has two roles: project administrator and project member. Users with different roles are granted with different permissions, and permissions at the organization and project levels are independent of each other.

Organization Roles and Permissions

User permissions at the organization level are as follows:

1. Super Administrator: Manages the organizational life cycle and owns all permissions of an organization administrator. There should be at least one super administrator within an organization and the super administrator can only leave the organization when the role is transferred to another member.
2. Organization Administrator: Manages members, devices, and projects within the organization.
3. Device Maintainer: Manages all devices within the organization.
4. Member: Views project information, adds devices, and exits the organization.
5. Temporary Member: Has limited operation permissions within the joined project.




- Both super and organization administrators can click  on the Members page to view detailed permission descriptions.
-

Project Roles and Permissions

User permissions at the project level are as follows:

1. Project Administrator: Manages the project life cycle and owns all project permissions. There should be at least one project administrator within a project.
2. Member: Has basic operation permissions within the project.



- The project administrator can click  on the "Edit project info" panel to view detailed permission descriptions.
-

Registration and Login

Users can visit <https://fh.dji.com>, create a DJI account, and log in to DJI FlightHub 2.

- Users can log in to DJI FlightHub 2 and DJI Pilot 2 at the same time with the same DJI account, but multiple logins to the same platform are not supported.

Organization Management

Create an Organization

If users have not joined any organizations, they will be directed to the Organization Management page. Click Create Organization and enter an organization name to create an organization. The user who creates the organization will be assigned as a super administrator.

At the next login, users will be directed to the Projects page and be able to switch organizations on the upper left corner of the page.

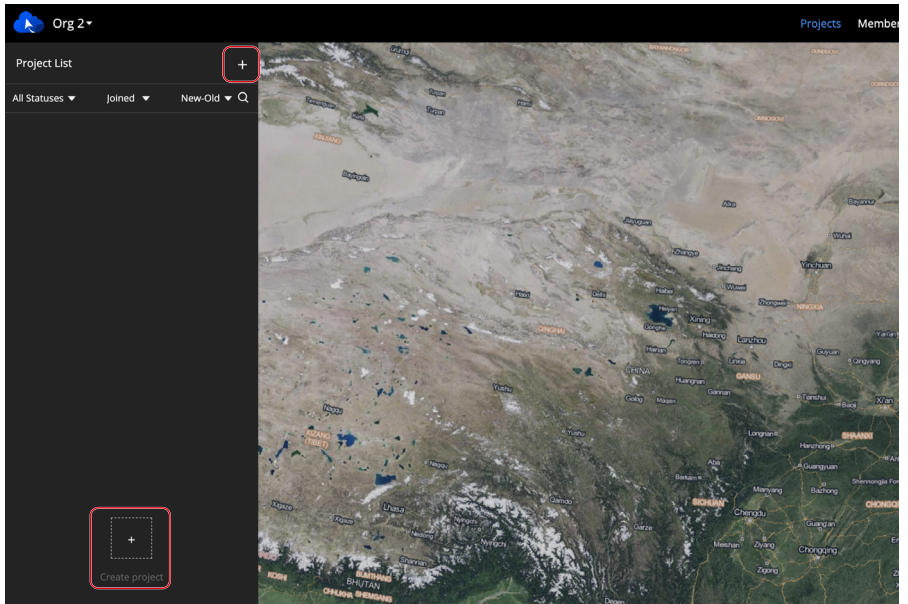


Users can click the user account on the upper right corner and select User Center to view the account and organization information and add a mobile number or email address for service subscription. After the service is subscribed, the system will automatically send a message or email to notify users of an emergency or failed task. Users can also select My Organization to edit name or exit the organization.

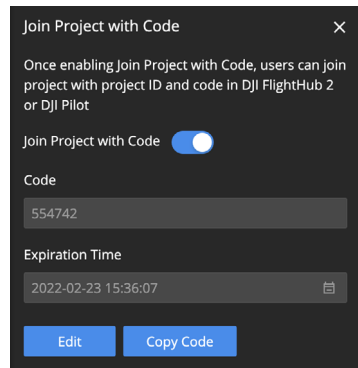
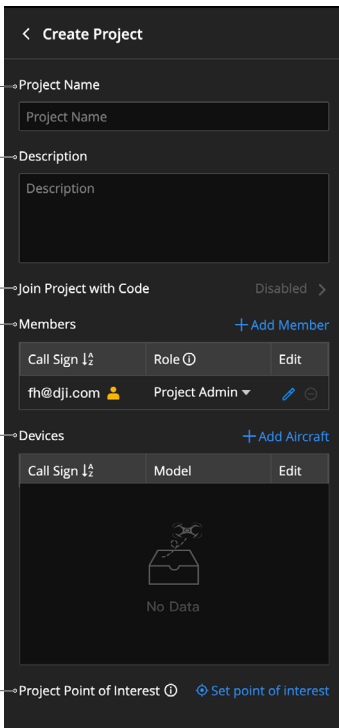


Create a Project

Administrators can click “+” in the middle of the project list panel or on the upper right corner to create a project.



The location information of the administrator will be requested when creating a project, and the geographic location obtained will be used as the default project point of interest. Fill in the following information to create a project.



2 cloud service and join the project with the project ID and code.

For users who are not organization members but join projects under the organization, their organization roles will be assigned as temporary members.

4. Members

Click Add Member to add organization members to the project. Users can also join the project with the project ID and code.

5. Devices

Devices include the docks and the aircraft that are bound to the current project.

a. Users can deploy a dock in DJI Pilot 2 and assign the dock to a project. The dock information will automatically be displayed on the panel.

b. For DJI Pilot 2 users who enter the project, once their aircraft are linked with remote controllers, the aircraft information will be automatically displayed on the device list. Click Add Aircraft to add aircraft to the project.

6. Project Point of Interest

Click Set Point of Interest. The set point will be displayed in the middle of the web page when users enter the project.

Click Create Project to create the project.

1. Project Name

The project name is required and should be within 40 characters.

2. Description

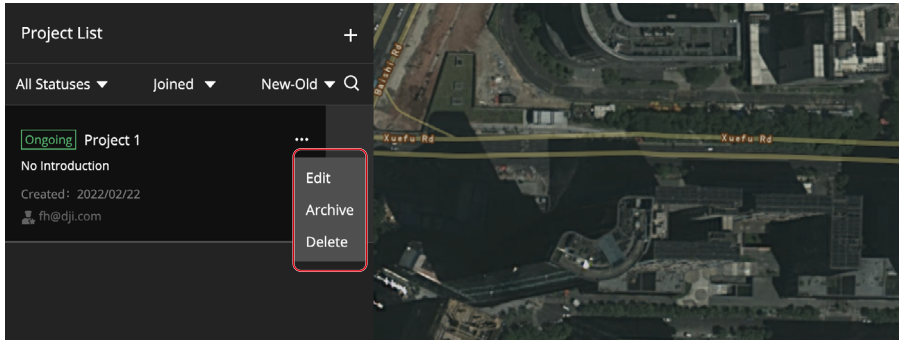
The project description is optional.

3. Join Project with Code

Administrators can enable Join Project with Code after creating a project. Click Copy Code to copy the project ID and code as well as the project link and send them to members who wish to join the project.

DJI FlightHub 2 users can click the link or enter the project ID and code on the My Organization page to join the project. DJI Pilot 2 users can log in to the DJI FlightHub

Both super and organization administrators can edit, archive, and delete projects. They can also activate archived projects. The project administrator can edit, archive, activate, and delete projects they manage. Other members can only view information of joined projects.



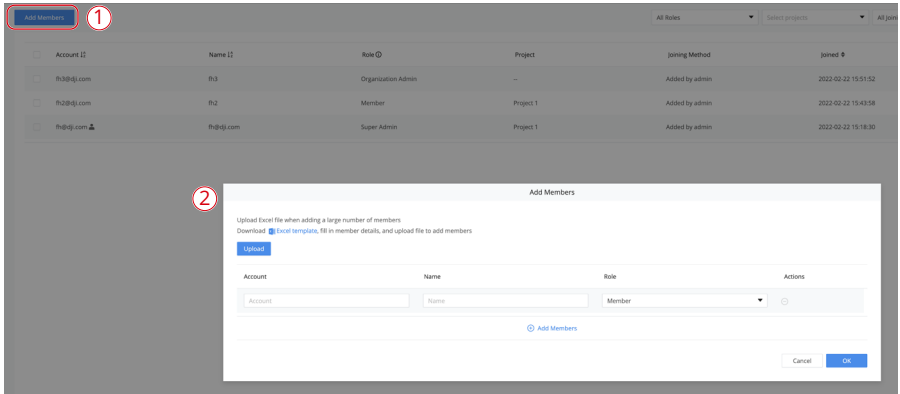
-
- 🔦 • DJI Pilot 2 users cannot view or work on archived projects.
-

Member Management

Both super and organization administrators can manage members on the Members page.

Add members

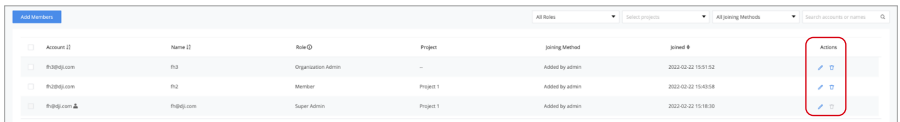
Click Add Members and fill in members' accounts and organization names and roles. To add multiple members at once, administrators can also download an Excel template, fill in the members' information, and then upload the file.



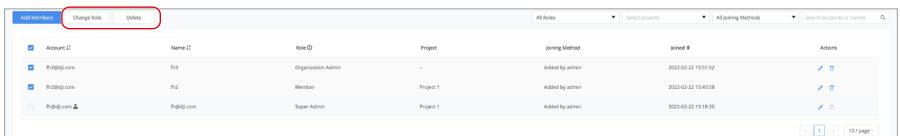
Change Member Information

Administrators can edit member information and delete members.

- ⚠️ • The organization administrator cannot change the role or delete the account of the super administrator.



Administrators can also select multiple accounts and change member roles or delete all accounts at once.

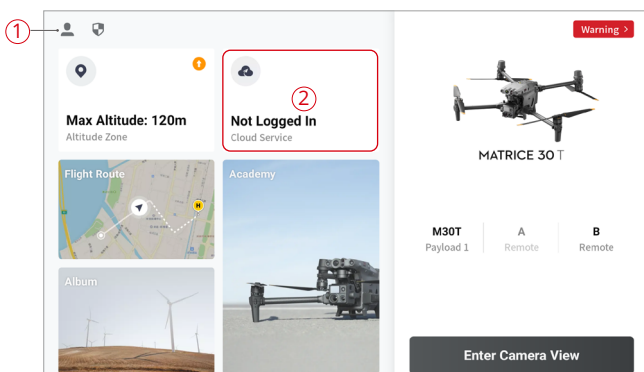


Device Management

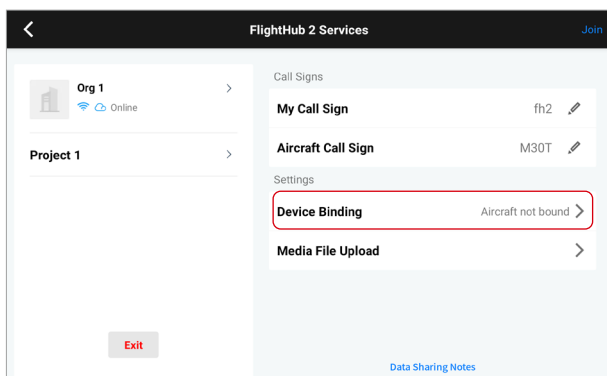
Aircraft Management

DJI Pilot 2 users can bind their aircraft to DJI FlightHub 2 organizations. Make sure that the remote controller is connected to the internet. Open DJI Pilot 2 and enter the home screen.

1. Tap Settings on the upper left corner and log in with a DJI account.
2. Tap Cloud Service and select the DJI FlightHub 2 cloud service. Users need to select the organization and project they want to join upon the first login. At subsequent logins, they will be directed to the project page they entered last time. If users have not joined any organization, they can contact the administrators for details.



3. After logging in, the project information will be displayed on the screen. Click Device Binding to bind the aircraft to the organization.



The administrators can manage the aircraft on the Devices page after the aircraft is bound to the organization.

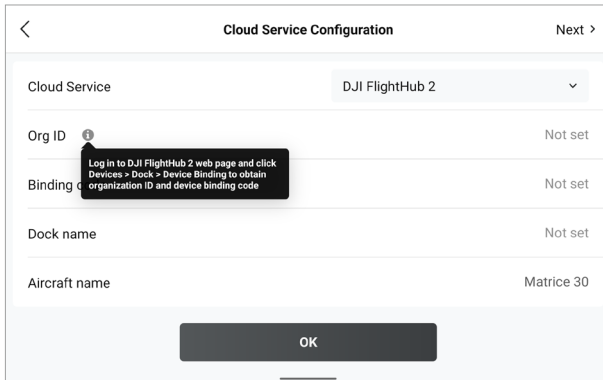
Model	SN	Name	Firmware Version	Status	Project	Joined	Last Online	Actions
M30	1581F5BKD22781234567	Aircraft_1	00.00.0001	Offline	Project_1	2022-10-20 21:17:31	2022-10-28 10:05:01	[Actions]

Dock Management

Bind to an Organization

The dock can be bound to a DJI FlightHub 2 organization in DJI Pilot 2. Make sure that the dock is connected to the cable or 4G network. Open DJI Pilot 2 and enter the home screen.

1. Connect the USB-A port on the dock to the USB-C port on the remote controller with a USB cable.
2. Follow the on-screen instructions to deploy the dock. Input the organization ID, device binding code, and dock and aircraft names on the Cloud Service Configuration screen.



- Go to Devices > Dock > Device Binding to access the organization ID and device binding code on FlightHub 2.
- A dock can only be bound to one organization. To switch organizations, users can go to Devices > Dock to unbind the dock first and bind the dock to a new organization in DJI Pilot 2.

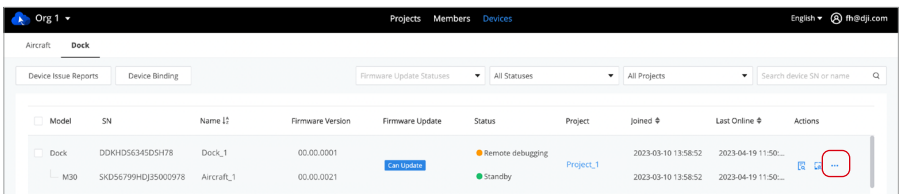
3. Tap OK after completing the information, and the dock will be bound to the organization.

Manage in the Cloud

The administrators can manage the dock on the Devices page after the dock is bound to an organization. Users can also view the warning messages and maintain the dock remotely.


Bind to a Project

The administrators can click Dock > ●●● > Edit to bind the dock to a project.




- A dock can only be bound to one project.

View Warning Messages

Users can click  to view the warning messages of the dock and aircraft. The message includes the start and end time, warning level, device type, error code, content, and recommended solutions.


Monitor and Maintain Devices

Users can click  to monitor and maintain the dock and aircraft remotely.

1. Dock Status Panel

Users can view the dock name, type, firmware version, SN, maintenance program, DJI Care Enterprise, and other status information on the dock status panel.

Dock ● Idle
Normal status



Dock V00.00.0001
Dock Name: Dock_01
Control Module SN: 4TADK6700000000
Plate SN: 5RUDK670000000000000005

41 day(s)
Running Time

238 V
Input Voltage

Open
Backup Battery Switch

99 %
Relative Humidity (Int.)

350
Flights

817 KB/s
Network

25.1 V
Battery Voltage

23.4 °C
Temperature (Ext.)

30
Satellites

Configured
Alternate Landing Site

27.9 °C
Battery Temp

No Rainfall
Rainfall

Calibrated
Calibration

Idle
AC

26.8 °C
Temperature (Int.)

0 m/s
Wind Speed


DJI Maintenance Program 142 days/1150 flights >

DJI Care Enterprise Not Bound >

2. Aircraft Status Panel

Users can view the aircraft name, type, firmware version, SN, left/right battery SN, maintenance program, DJI Care Enterprise, and other status information on the aircraft status panel. The beacon status, maximum flight altitude and distance, obstacle sensing status, and operating mode can be modified.

Aircraft ● Inside Dock, Powered-Off
N/A



M30 V00.00.0021
Aircraft Name: Aircraft_01
Aircraft SN: 4TADK67000000000365
Left Battery SN: 4BUDK6700000000
Right Battery SN: 4BUDK6700000002

34h 20min
Running Time

86
Left Battery

85
Right Battery

Cycle Count

446 flights
Flights

16 day(s)

15 day(s)

High Battery Level Storage

Image
Transmission

24.7 V

24.7 V

Voltage

33.6 °C

33.2 °C

Temperature

RTK --
Satellites


91 %



91 %



Battery Level


DJI Maintenance Program 265h/301d/554 flights >



DJI Care Enterprise Not Bound >



Beacons **Disabled** 

Max Altitude  **500 m** 

Obstacle Sensing  **Enable** 

Alternate Route Altitude  **50 m**

Max Flight Distance  **Disabled** 

Charging Mode  **Standby** 

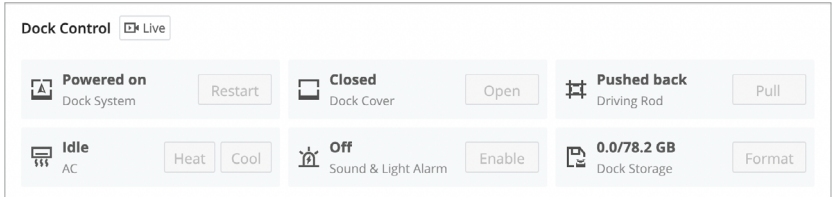
3. Remote Operations

Users can remotely operate the dock and aircraft and report device issues.

- After Remote Operations is enabled, the dock will not be able to perform tasks.

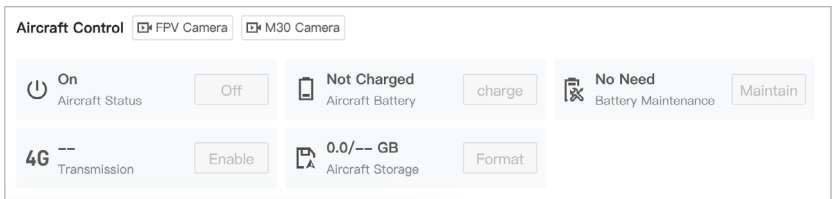
3.1 Dock Control


The dock control panel supports operating the dock system, dock cover, driving rods, air conditioning, and sound-light alarm, as well as formatting the dock storage. The administrators can click Live to view the dock livestream.

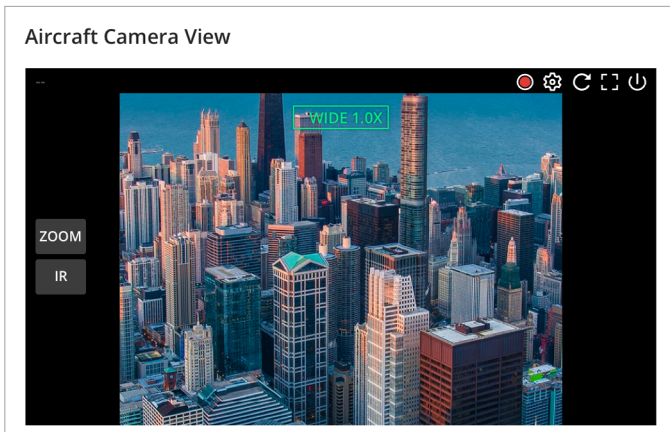


3.2 Aircraft Control

The aircraft control panel supports changing the aircraft batteries, charging, and maintenance statuses, enabling the LTE transmission, and formatting the aircraft storage. The administrators can click the camera view buttons to view the FPV or the payload camera view.




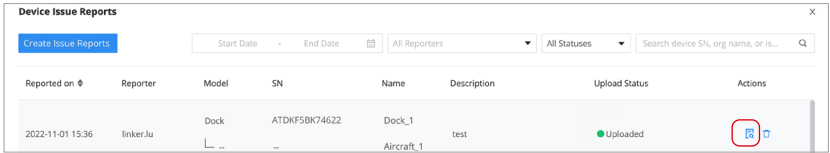
Users can click the camera type to switch between camera views or click  to start recording. The recorded video will automatically be stored to Media Files.




3.3 Issue Reporting

The administrators can click Device Issue Reports to report issues that occurred to the dock or aircraft. Click Create Report to fill in the issue description.

After submitting, the administrators can click  to access the QR code and tracking number and provide the information to DJI Support.



Reported on	Reporter	Model	SN	Name	Description	Upload Status	Actions
2022-11-01 15:36	linker.lj	Dock	ATDKF5BK74622	Dock_1	test	● Uploaded	
		Aircraft_1			



- For more information about how to use DJI Dock, visit <https://www.dji.com/dock/downloads>.

Real-Time Project Information

DJI FlightHub 2 users can view online project information, device details, and livestreams on the Team page.

Online Project Information

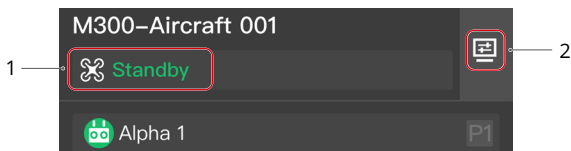
After joining a project, project members can view the online devices, dock status, and member list on the left. Online members include users who have logged in to FlightHub 2 on the web and also whose remote controller is powered on but not yet connected to the aircraft.

Online Devices

Project members can view online independent aircraft and its connected remote controller on the Online Devices panel.




- Device statuses include:
 - a. When a device is online, its information will be displayed on the panel.
 - b. When a device is offline for less than five minutes, its information will be displayed in gray.
 - c. When a device is offline for more than five minutes, its information will not be displayed.



1. The aircraft statuses include Standby, Powering off, Powering on, Prepare to take off, Ready to take off, Manual flight, Auto takeoff, Task in progress, Returning to home, Landing, Updating firmware, Auto avoidance, Forced landing, and Not connected.
2. Click to view device details and livestreams.

Aircraft status details include the aircraft status, image transmission, satellite status, battery level and status, altitude, horizontal speed, and distance to the Home Point.

Click the camera view button to view the FPV or payload camera view. During the livestream, users can click the camera type to switch between camera views and click  to start recording. The recorded video will automatically be stored to Media Files.

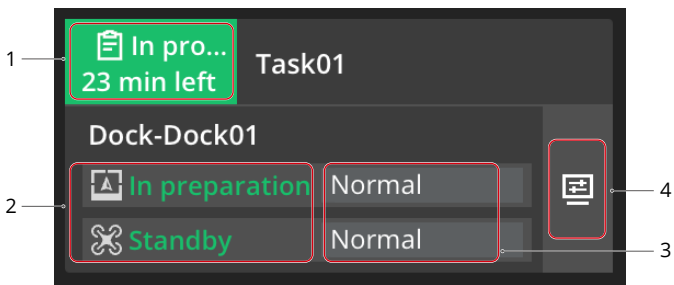


When the aircraft is disconnected, the last recorded time and coordinates of the aircraft will be displayed. Users can click the information to center the aircraft location on the map and then right-click to create a PinPoint to help locate the aircraft during searching.

Dock

Users can view the task status, the dock and connected aircraft statuses, and the warning messages and open the device status window.

- ☀️ • When there is more than one dock online, the status panel of the offline dock will be displayed on the top.



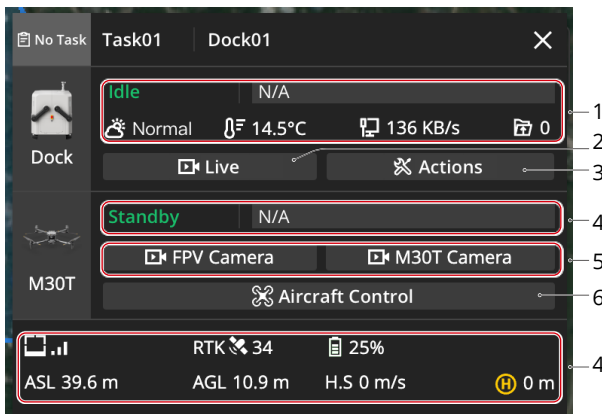
- Dock statuses include planned flight task and Live Flight Controls statuses.
 - Planned flight task statuses include No task, To be performed, In progress, Task failed, and Task ended. The task start time will be displayed on the panel when the task is to be performed, and the remaining time will be shown when the task is in progress. Users can click the flight task status to view the task schedule of the day.

- 1.2 Live Flight Controls statuses include Live Flight Controls, Live Flight Controls (Manual Flight), and Live Flight Controls (Auto Flight).
 - a. Live Flight Controls: When the aircraft control is obtained by a user.
 - b. Live Flight Controls (Manual Flight): When the aircraft control is obtained by a user and the user is operating the aircraft with keyboard commands.
 - c. Live Flight Controls (Auto Flight): When the aircraft control is obtained by a user and the aircraft is automatically performing tasks.
- 2. The dock statuses include Idle, In preparation, Task in progress, Task completed and closing dock cover, and Offline. The aircraft statuses include Standby, Powering off, Powering on, Prepare to take off, Ready to take off, Manual flight, Auto takeoff, Task in progress, Returning to home, Landing, Updating firmware, Auto avoidance, Forced landing, and Not connected.

The dock and aircraft statuses are shown below when performing flight tasks.

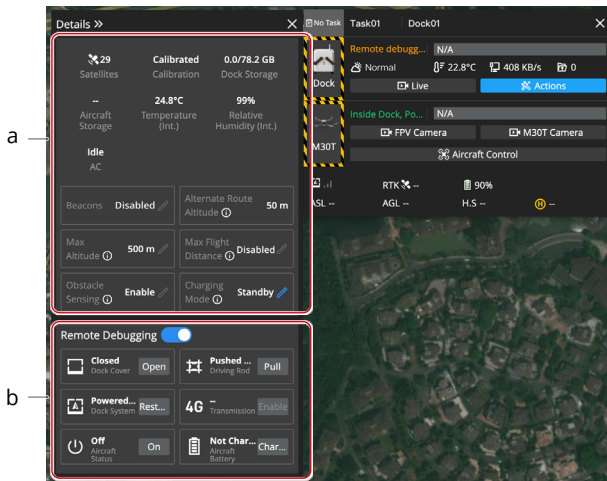
Process	Task Preparation	Task in Progress	Task Completion
Dock Status	Idle > In preparation	Task in progress	Task completed and closing dock cover > Idle
Aircraft Status	Powering off > Powering on > Standby > Prepare to take off > Ready to take off	Auto takeoff > Task in progress	Returning to home > Landing > Standby > Powering off

- 3. The warning messages include the message description and number. Users can click to view the history of warning messages.
- 4. Click to view device details and livestreams.



- 1. Dock status details include the dock status, wind speed, environment temperature, rainfall scale, internet speed, media file upload status, and warning messages. Users can hover the mouse over the dock icon to view the dock model and SN, and double-click to center the dock location on the map.
- 2. Live: Project members can click Live to view the dock livestream.

3. Actions: Users can click Actions to view more information about the dock and aircraft. The administrators can operate the devices remotely.



- a. Users can view the detailed information of the dock and aircraft on the Details panel. The beacon status, maximum flight altitude and distance, obstacle sensing status, and charging mode can be modified.
- b. The administrators can click to enable Remote Debugging. The operator can remotely control the dock cover, driving rods, and dock system, enable the LTE transmission, and change the aircraft battery and charging status.

After Remote Debugging is enabled, yellow and black strips will appear around the dock and aircraft images. Users can hover the mouse over the image to view the operator account.

💡 • The dock and aircraft can only be remotely operated by one user at a time.

4. The dock aircraft status details include the aircraft status, image transmission, satellite status, battery level and status, altitude, horizontal speed, and distance to the Home Point. Users can hover the mouse over the aircraft icon to view the aircraft model and SN, and double-click to center the aircraft location on the map.

💡 • ASL means the absolute altitude of the aircraft represented in the EGM96 model, and AGL means the aircraft altitude relative to the ground.
 • The wind direction and speed relative to the aircraft will be displayed after takeoff. Users can refer to the information to ensure flight safety.

5. Livestream: When the aircraft is powered on, users can click the camera view button to view the FPV or payload camera livestream. During the livestream, users can click the camera type to switch between camera views and click ● to start recording. The recorded video will automatically be stored to Media Files.
6. Aircraft Control: Project administrators can remotely operate the aircraft after clicking Aircraft Control. See Live Flight Controls for more details.

Live Flight Controls

FlightHub 2 supports sending commands directly to the dock aircraft and remotely operating the aircraft.

- The dock firmware version should be later than v01.03.0902 and the aircraft version should be later than v06.02.0803 before using Live Flight Controls.

Aircraft Control



1. Obtain Aircraft Control

Users can right-click the dock or aircraft icon on the map or click Aircraft Control on the device status window to enable Live Flight Controls.

- When Live Flight Controls is enabled, the remote control latency will be displayed. Users can hover the mouse over \updownarrow to view the uplink and downlink latency. Uplink means transferring data from the aircraft to the cloud, while downlink refers to the data transmission from the cloud to the aircraft.
- Users can click the FPV or payload camera view button to view livestream.

2. Parameter Settings

- 2.1 Clearance Altitude: Aircraft altitude relative to the takeoff point before flying away from the dock (Altitude range: 8 m - 1500 m).
- 2.2 Default AGL: Default aircraft altitude relative to the ground when the aircraft is performing FlyTo tasks (Altitude range: 20 m - 1500 m).
- 2.3 RTH Altitude: Aircraft altitude relative to the takeoff point when returning to the Home

Point (Altitude range: 20 m - 1500 m). On the premise of flight safety, it is recommended that the RTH altitude should be close to the real-time aircraft altitude relative to the takeoff point when the aircraft is returning to home, so as to reduce the impact of high-altitude wind on the aircraft flight time.

- 2.4 On Signal Lost: Users can choose from Return to Home, Hover, or Continue. The dock aircraft will perform signal lost action when the aircraft is disconnected from the dock. To ensure flight safety, it is recommended to set the signal lost action as Return to Home.

💡 • Parameters such as RTH altitude and signal lost action should be set before operating the aircraft after Live Flight Controls is enabled.

- 3. Situation Awareness: Users can view the Home Point location, aircraft and payload orientation, and obstacle sensing information in the Navigation Display.
- 4. Keyboard Commands: Users can click the buttons or press the keyboard keys to control aircraft movements.

[Q]: Yaw left	[E]: Yaw right
[W]: Forward	[S]: Backward
[A]: Roll left	[D]: Roll right
[C]: Ascend	[Z]: Descend
[Space]: Pause	

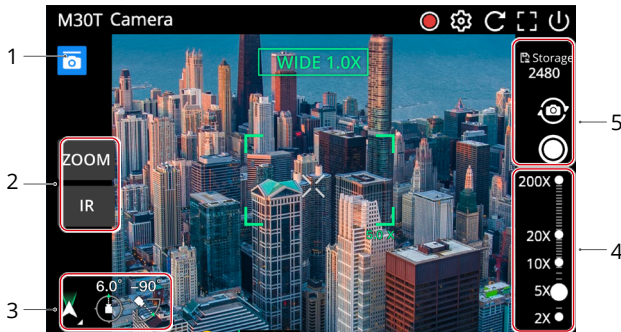
- 5. Take Off: When the aircraft is inside the dock, users can click Take Off and the aircraft will ascend to the Clearance altitude and hover. Users can continue operating the aircraft with keyboard commands. When the aircraft is performing tasks, the remaining flight distance and time will be displayed on the device status window.
- 6. FlyTo Tasks: Users can right-click on the map or a PinPoint to set a FlyTo location. After the FlyTo location is set, a virtual flight route will be displayed on the map. Users can click Start, and the aircraft will fly directly to the location.


💡 • When the aircraft is inside the dock and the FlyTo task is distributed, the aircraft will ascend to the Clearance altitude and fly directly to the location. To ensure flight safety, a reasonable Clearance altitude, Default AGL, and RTH altitude should be set based on the surrounding environment and task requirements and at least 5 meters lower than the maximum flight altitude allowed in Altitude Zone. Users should also make sure that there are no obstacles during flight.



- ☀️ • If Live Flight Controls is enabled when the aircraft is performing a flight task, users can click Resume to resume the task, or click RTH to disable Live Flight Controls and the aircraft will return to home automatically.
-
- ⚠️ • When Low Battery RTH is triggered, DO NOT cancel RTH or enable Live Flight Controls during RTH, otherwise the aircraft will exit RTH and may not be able to return to the dock.
 - When the remaining battery level is only enough for the aircraft to descend from its current altitude, the aircraft will land automatically and the automatic landing cannot be canceled.
 - DO NOT control the aircraft to land on the dock using keyboard commands, otherwise the aircraft will not be able to stop propellers after landing and return to the dock automatically.
-

Payload Control









1. Obtain Payload Control: Users can click the camera view button to start livestream and click  to obtain the payload control.
2. Control Gimbal: Users can view the gimbal pan and tilt angles, recenter the gimbal or gimbal pan, and double-click on the livestream view to center the view around the clicked point.
3. Switch Cameras: Users can switch between wide-angle, zoom, and infrared cameras (M30T camera view is used as an example here.)
4. Adjust Zoom Scale: Users can adjust the zoom slider or scroll with the mouse to zoom in or out on the livestream view.
5. Capture Media Files: Users can take photos or record videos and view the remaining storage for media files.

Map Details







The dock and aircraft locations will be displayed on the map in real time. Users can click the dock or aircraft icon, and a line connecting the dock and its connected aircraft will be displayed.

When the dock is performing tasks, users can click the dock status panel, and the flight route will be displayed in green and the aircraft trajectory in blue on the map. If the aircraft is performing a flight route task, the waypoint number will also be displayed.

Project members can also perform the following actions on the map.




1. Click  to search geographic locations. The location will be displayed in the middle of the web page.
2. View  for the map orientation.
3. Click  to enable the 3D map. Press and hold the Control/Ctrl key and left button of the mouse together to rotate the map.
4. Click  to view GEO Zone information.
5. Click  and the project point of interest will be displayed in the middle of the web page.
6. Click  to view the map lab.
 - a. Building Model: Enable Building Model to display building models on the map.
 - b. Anti-Aliasing: Enable Anti-Aliasing to significantly improve display effects of map annotations. Operations may stutter with low computer performance.
 - c. Map Type: Choose to switch between the standard and satellite maps.

Annotation Management

Project members can click  to enter the Annotation page and add annotations such as points, lines, and areas on the map by selecting , ,  on the right side of the screen. The project administrator can click  to distribute annotation folders to DJI Pilot 2 and click  to lock folders. Once the folder is locked, project members can no longer edit the annotations in the folder.




Click  to import KML files and click  to select and export annotation folders to KML files.

DJI Pilot 2 users can also select , ,  to create points, lines, and areas after entering the map view. Annotations will be remotely uploaded to DJI FlightHub 2 and stored in Shared Folder. Annotations in Shared Folder are distributed by default and cannot be disabled.




Model Library

Project members can click  to enter the model library to import and manage 2D and 3D models.


Import Models

Supported model types and formats are as follows.

Model Type	Model Format
2D model	PNG, TIFF, and PNG+TIFF
Point cloud model	PNTS and LAS
Mesh model	B3DM

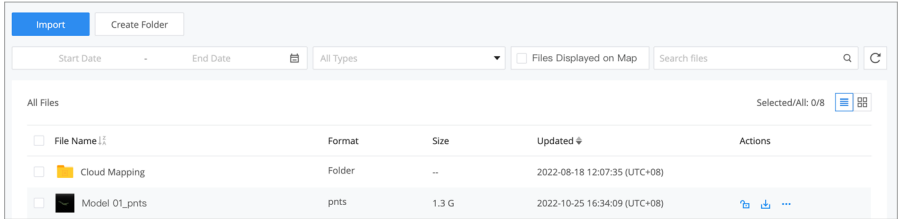
-
-  • For model files in the TIFF or LAS format, users can upload files directly. For model files in other format, follow the provided example on the web to prepare the model file and compress the model into a ZIP file before uploading.
-

1. Click Import to enter the Import Model page.
 2. Click Import Model to import one or multiple models at the same time. Users can choose Display Model on Map Once Imported, and the imported models will automatically be displayed on the map.
-

-  • The ZIP file will automatically be decompressed after it is imported.
 - The imported LAS model will automatically be converted to the PNTS format.
 - If the coordinate system information is missing in the imported LAS model, users can click Set GCS/PCS and enter the coordinate system name or its EPSG code to search for the coordinate system.
-

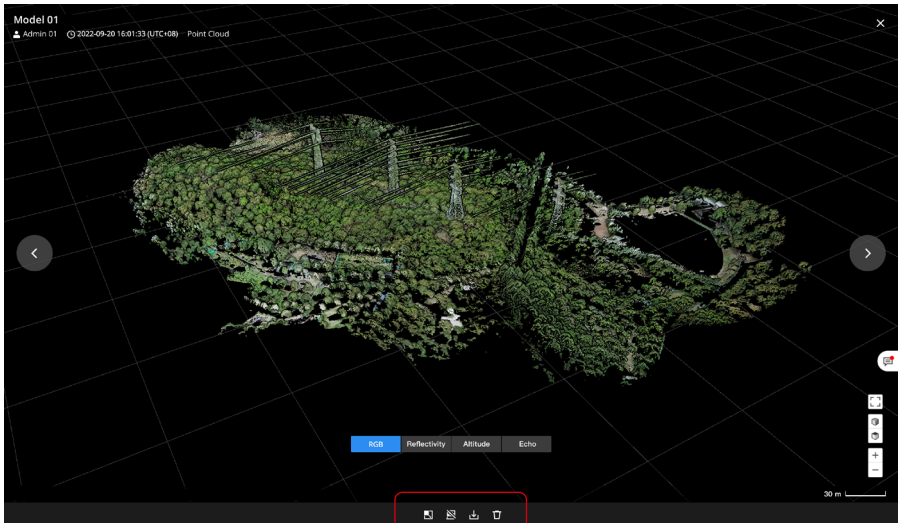
Manage Models

Project members can preview, lock, download, move, rename, or delete models, as well as choose to display models on the map. The model files can be displayed in the list or grid view.



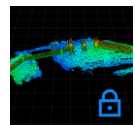
Preview Models

Users can click the file to preview the model. The model name, uploader, upload time, and model type will be displayed on the upper left corner. Project members can zoom, rotate, download, or delete models. Members can also choose to enter the full screen of the model and display the models on the map.




Lock Models

After a model file or an entire folder is locked, project members will not be able to rename, move, or delete the model or the folder. Locking a model in the model library will not affect its display on the map.

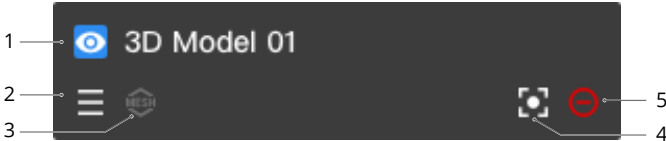


Map

Project members can click  to enter the Map page to manage the 3D and 2D models from the model library.

3D Model Management


3D Model Panel





1. Display the Model on the Map

The project administrator can click  to display the model on the map.


2. Change the Display Order

The project administrator can drag  to change the display order of the models. If there are overlapping models in the same area, the 3D models at the top of the list will be displayed on the top of the map.


3. Display the Model Type

The  icon stands for the point cloud model, and  stands for the mesh model.

4. Center the 3D Model

Users can click  to select the 3D model, and the model will be displayed in the middle of the web page.

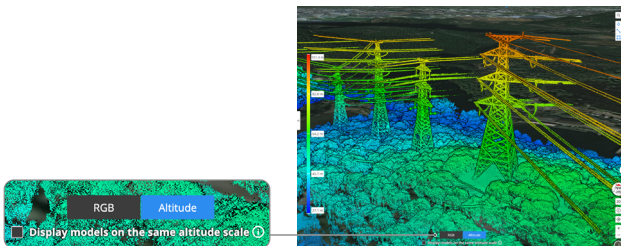
5. Remove the 3D Model

Users can click  to cancel the display of the 3D model on the map. The 3D model will still exist in the model library.

Point Cloud Model Display

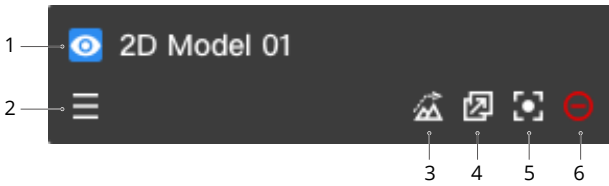
The point cloud models can be displayed in the RGB, Reflectivity, Altitude, or Echo mode, depending on what information is included in the models.

When the model is displayed in the Altitude mode, the altitude scale will be shown on the left. After selecting Display models on the same altitude scale, multiple selected models will be displayed on the same altitude scale and the same altitude will be rendered with the same color.



2D Model Management


2D Model Panel




1. Display the Model on the Map


The project administrator can click  to display the model on the map.

2. Change the Display Order


The project administrator can drag  to change the display order of the models. If there are overlapping models in the same area, the 2D models at the top of the list will be displayed on the top of the map.

3. Load the Elevation Data


After the elevation of a mapped area is calculated, the project administrator can click  to load the elevation data onto the map.

 • Users can only load the elevation data of a mapped area one at a time.


4. Distribute the mapping output

The 2D model can be distributed to DJI Pilot 2. The project administrator can click  to cancel distribution.

5. Center the 2D Model

Users can click  to select the 2D model, and the model will be displayed in the middle of the web page.

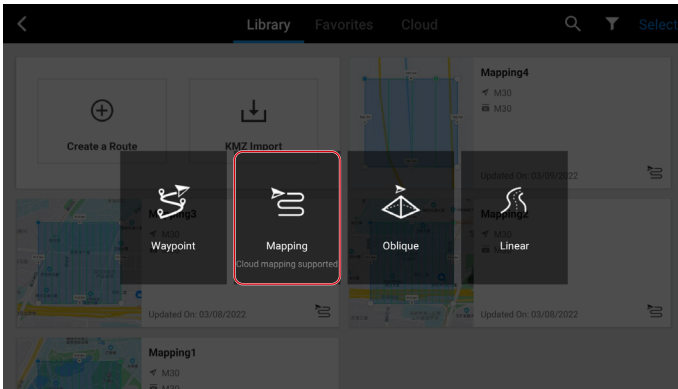
6. Remove the 2D Model


Users can click  to cancel the display of the 2D model on the map. The 2D model will still exist in the model library.


Cloud Mapping

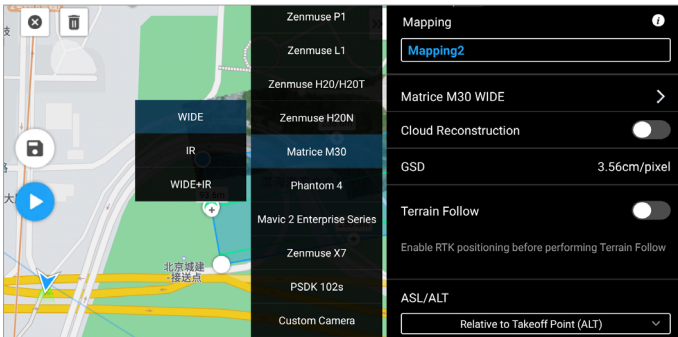
DJI Pilot 2 users can log in to the DJI FlightHub 2 cloud service to perform cloud mapping and manage the mapping progress on the web.

1. Tap Flight Route on the DJI Pilot 2 home screen and select Mapping.

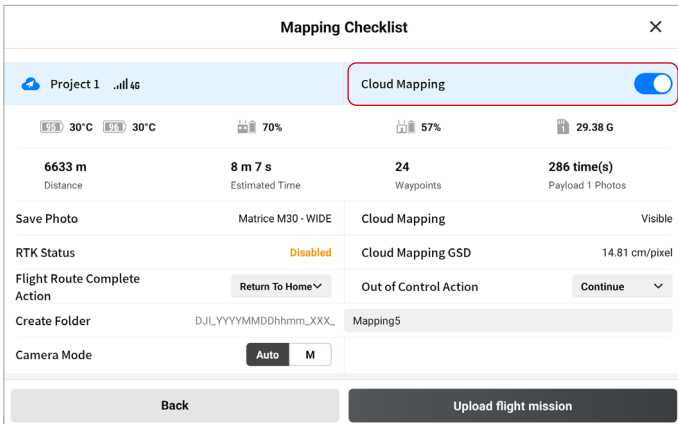


2. Configure settings on the right panel. Tap  to save settings and tap  to perform the mapping task.

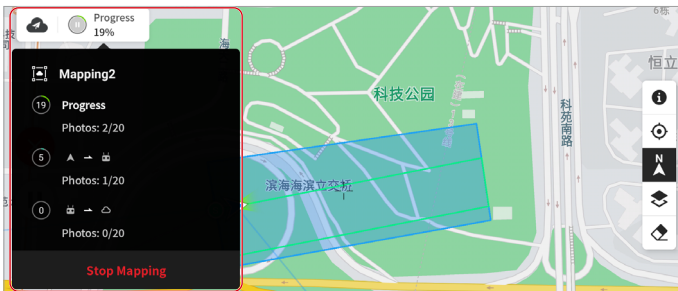
 DJI FlightHub 2 supports infrared and visible light mapping with Zenmuse H20, H20T, H20N, and the Matrice 30 series and Mavic 3 enterprise series cameras.




3. Enable Cloud Mapping on the mapping checklist and upload the flight task.




4. Tap Progress to view the mapping status.



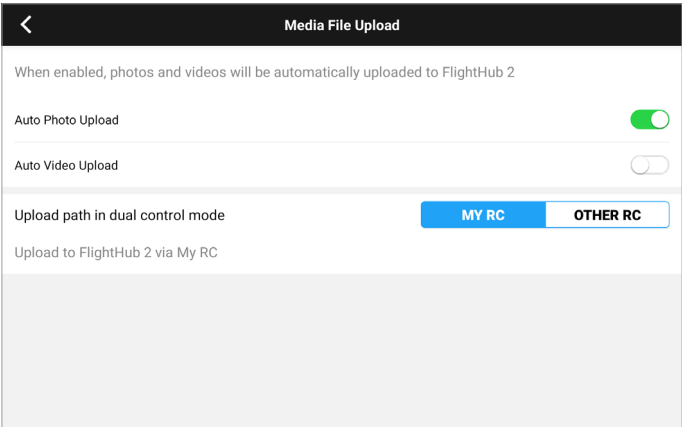
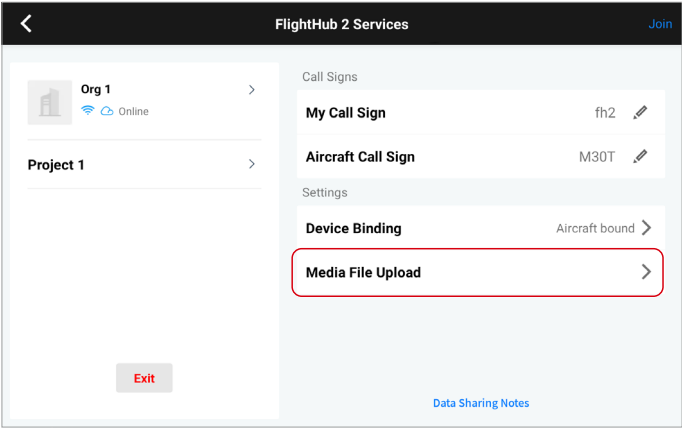
DJI FlightHub 2 project members can click  to enter the Map page. Select the mapping task to view the task planning area and mapping output.

Media Files

Project members can click  to enter the Media Files page and manage all media files uploaded from DJI Pilot 2 and DJI Dock.

Upload Media Files




The automatic upload of media files in DJI Pilot 2 is disabled by default. To enable the function, DJI Pilot 2 users can click Media File Upload in DJI FlightHub 2 Services and choose to upload photos and videos to DJI FlightHub 2 automatically. In the dual control mode, media files will be uploaded to DJI FlightHub 2 via the first remote controller that is linked to the aircraft. Users can also change the settings and upload media files from another controller.

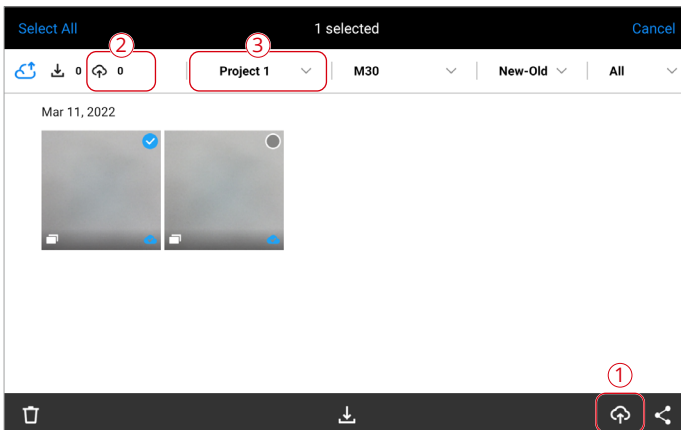


DJI Pilot 2 users can also enter the camera view and upload media files on the left panel.



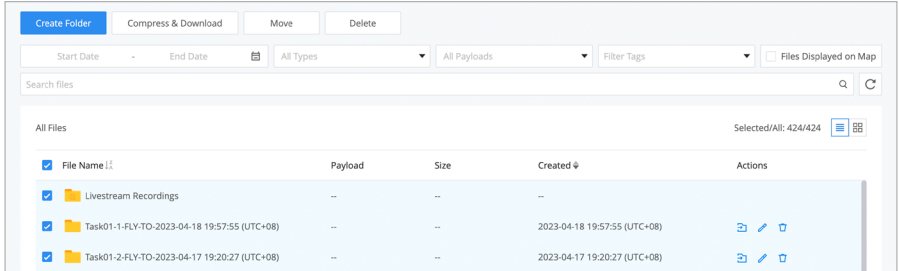
To manually upload media files, DJI Pilot 2 users can enter Album and select files that need to be uploaded.

1. Select project files, tap  on the lower right corner of the screen, and upload files to DJI FlightHub 2.
2.  on the upper left corner shows the number of files waiting to be uploaded.
3. To upload media files from other projects, tap the project name, select files, and tap  on the lower right corner to upload files to the corresponding project media file library.



Manage Media Files

Project members can view, edit, transfer, delete, and download media files. Members can enter tags to filter media files with the same tag and select Files Displayed on Map to view all the photos that are displayed on the map. The media files can be displayed in the list or grid view.




Click to load photos with location information onto the map.


- Panoramas are displayed on the map by default.

Users can click to preview photos. PinPoints that are added within five kilometers of where the photo is taken will also be displayed on the photo. When previewing panoramas, users can also view the shot photos and panoramas. Click the photo or panorama icon to view details. Users can also click to add tags for videos or photos.

Flight Route Library

Project members can click  to enter the flight route library to import, create, and edit flight routes.

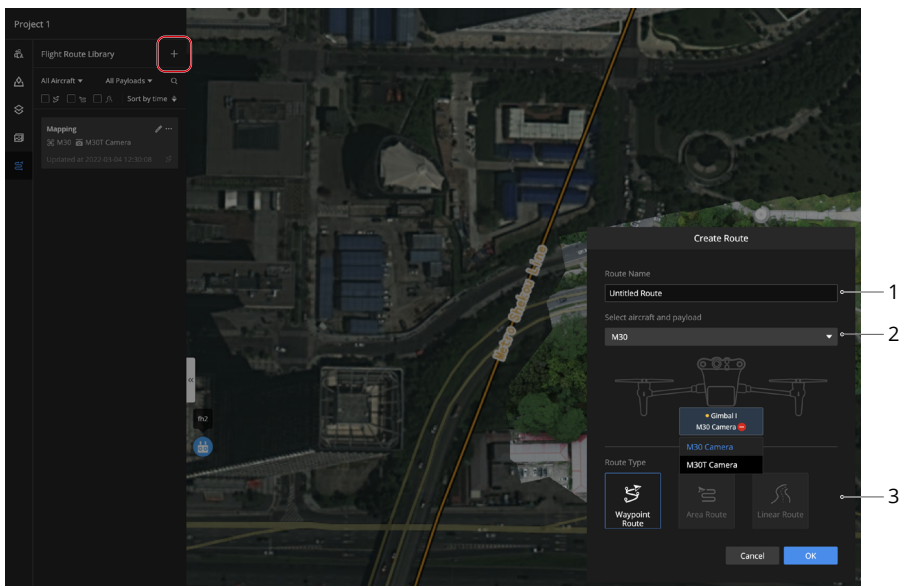
Import Flight Routes

Click  > Import KMZ File to select and import KMZ flight routes. The upload progress and status will be displayed during the flight route upload. Users can stop uploading files when the files are being or waiting to be uploaded.

-  • The KMZ file must include wpmz/template.kml and wpmz/waylines.wpml.

Create Flight Routes

Click "+" on the upper right corner of the flight route list and fill in the information below to create a flight route.



1. Route Name

The route name is required and should be within 60 characters.

2. Select aircraft and payload


Only the Matrice 30 and Mavic 3 enterprise series are supported.

3. Route Type

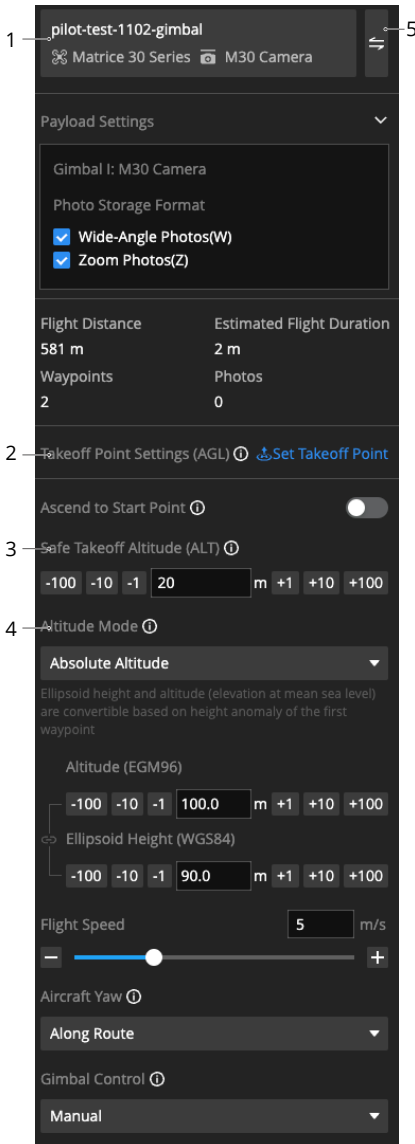
Only the Waypoint routes are supported.



Click OK to create the flight route.

Edit Waypoint Routes

Users will be automatically directed to the flight route editor after creating a flight route. Members can also click  to edit the flight route and waypoints.

Edit Flight Routes




 Move the mouse over  to view setting descriptions.

Pay attention to the settings below.

1. Basic Information

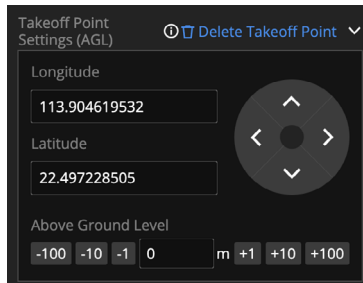
Click to edit the flight route name and payload.


 Changing the payload will affect flight route settings.

2. Takeoff Point Settings (AGL)

Click Set Takeoff Point and set the location where the aircraft will take off.

a. Edit the longitude, latitude, and altitude above the ground level on the coordinate panel.



b. Select and drag the takeoff point icon  to move the takeoff point. Press and hold the Alt key and drag the icon up and down to adjust the altitude.

c. Click Delete Takeoff Point to delete the takeoff point data.

- ☀️ • When the Altitude mode is set to Altitude Relative to Takeoff Point (ALT), the takeoff point will be a reference point used to plan the flight route. The actual takeoff point of an aircraft when performing a task may differ from the set takeoff point. The route altitude will be based on the altitude of the actual takeoff point during the flight.

3. Safe Takeoff Altitude (ALT)

Safe Takeoff Altitude is the altitude relative to the takeoff point altitude. Aircraft will ascend to the safe takeoff altitude after takeoff and fly to the flight route start point.

4. Altitude Mode

The Altitude mode is set to Absolute Altitude by default. Project members can also change it to Altitude Relative to Takeoff Point (ALT) or Above Ground Level.

5. Switch Between the Flight Route and Actions Panels

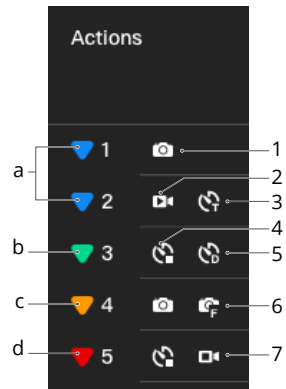
Users can click to switch to the Actions panel.

Waypoint Action Icon Colors:

- Blue: The waypoint parameters do not follow the flight route settings.
- Green: The waypoint parameters follow the flight route settings.
- Yellow: There are errors in the waypoint settings.
- Red: There are severe errors in the waypoint settings, and the flight route cannot be performed.


Waypoint Action Icons:

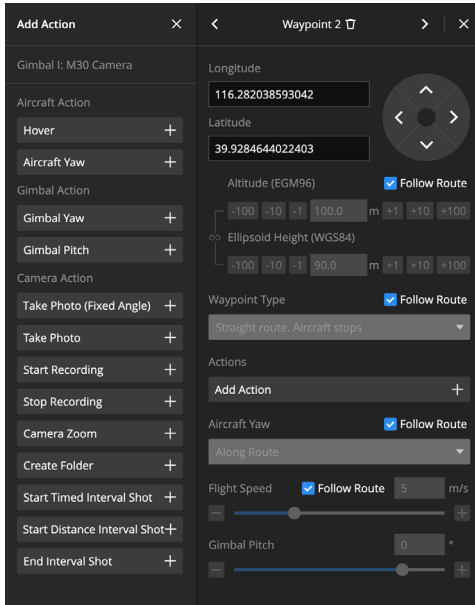
- Take a photo
- Start recording
- Start a timed interval shot
- End the interval shot
- Start a distance interval shot
- Take a photo (Fixed angle)
- End recording



Edit Waypoints

Waypoint Editor

Select  and click on the map to add waypoints and set details.



1. Longitude and Latitude

The longitude and latitude of an aircraft are obtained from its geographical location on the map.

2. Altitude, Ellipsoid Height (WGS84), Waypoint Type, Aircraft Yaw, and Flight Speed

These parameters are consistent with the corresponding flight route settings by default. If the flight route settings are changed, the above parameters will also be updated.

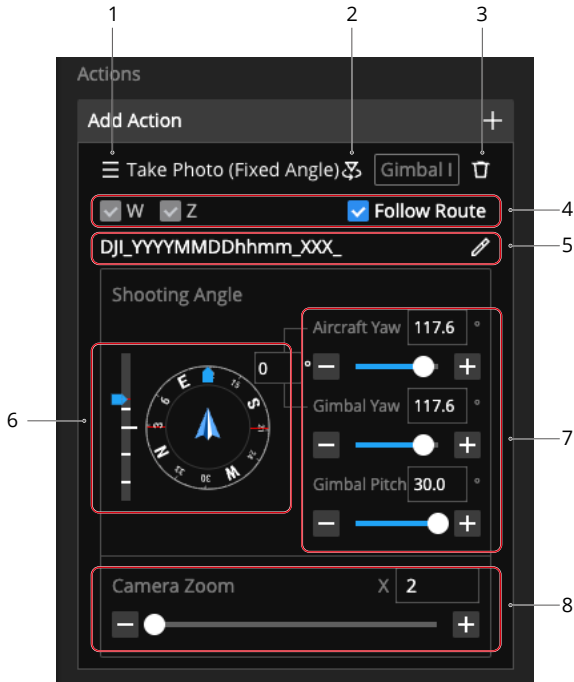
To change the altitude of a single waypoint, uncheck Follow Route and drag the waypoint directly to move the horizontal position of the waypoint while keeping the current altitude. Project members can also press and hold the ALT or Option key to drag the waypoint and adjust the altitude of the waypoint while maintaining the horizontal position of the waypoint.

3. Actions


Users can click "+" to add actions for the aircraft, gimbal, and camera and set details.

Take Photo (Fixed Angle) Camera Action Settings


1. Panel Introduction



1. Drag to change the performance sequence of waypoint actions.
2. Click to enter the FPV view of the waypoint action.

 • The FPV view is only supported when editing the Take Photo (Fixed angle) camera action. See 2. FPV View for more details.

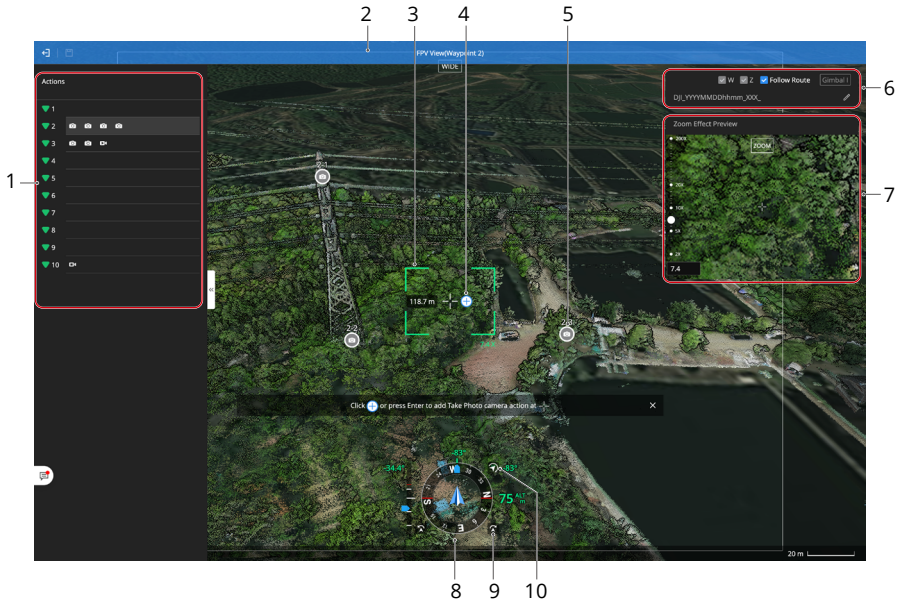
3. Delete the waypoint action.
4. Select the media file storage format. Users can choose Follow Route or customize the settings of each waypoint.

 • The aircraft firmware should be v5.1 or later.

5. Set the media file name.
6. View the aircraft and gimbal attitude indicator.
7. Users can input or adjust the slider to change the aircraft and gimbal attitude value.
8. Users can input or adjust the slider to change the zoom ratio.



2. FPV View


2.1 User Interface Introduction








1. Displays the waypoint actions
2. Indicates the wide-angle frame
3. Indicates the zoom frame
4. Click to add a camera action
5. Indicates the unselected camera action
6. Set the media file storage format and name
7. Preview the zoom effect and adjust the zoom ratio
8. Indicates the aircraft and gimbal attitude
9. Click to fine-tune the aircraft yaw attitude
10. Click to switch between the Free and Lock gimbal modes. The aircraft heading and the gimbal camera direction are parallel when the gimbal is in the Lock mode. In the Free mode, the gimbal camera will rotate freely.

2.2 Add a Camera Action



Click  or press Enter to add a camera action at . Project members can modify the media file storage format and name, preview the zoom effect, and adjust the zoom ratio on the right panel.


-  • Update the aircraft firmware to v5.1 or later to modify the media file storage format.
-

2.3 Change the Shooting Location

Click  to select a camera action , drag the map and place  on the subject, and click  to change the shooting location, or click  to cancel.

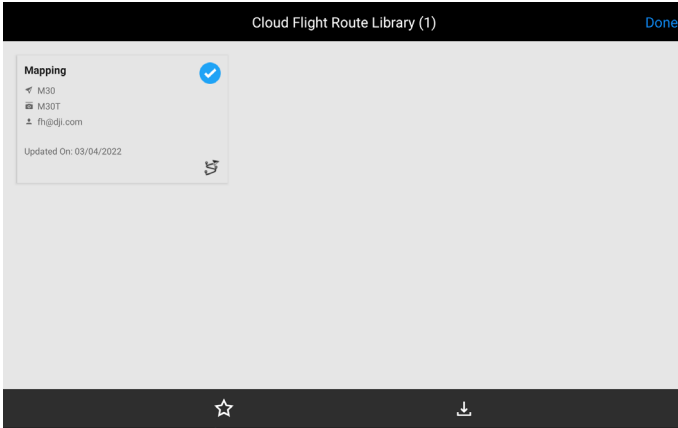
2.4 Delete a Camera Action

Click  to select a camera action and double-click  to delete the action.


Click  on the upper left corner to save the camera action settings.

Sync Flight Routes

DJI Pilot 2 users can log in to the DJI FlightHub 2 cloud service and access cloud flight tasks. Enter the home screen of DJI Pilot 2, tap Flight Route, and select Cloud to view flight routes created on DJI FlightHub 2.

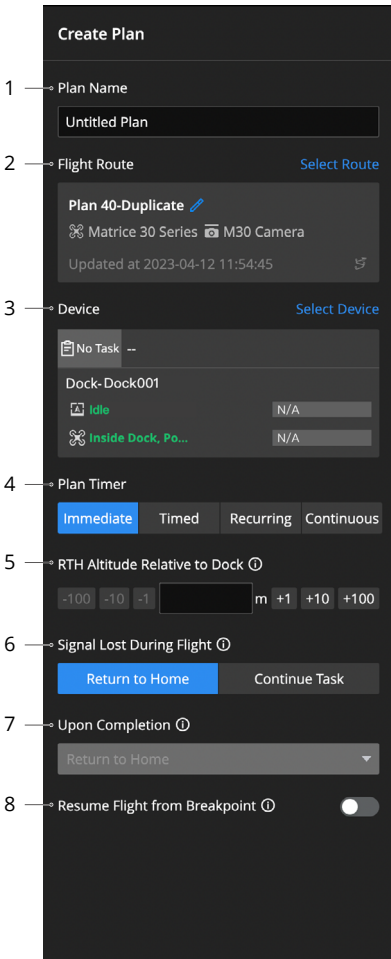


Task Plan Library

Project members can click  to enter the task plan library to view task plans and the administrators can create and manage plans.

Create Plans

Click Create Plan to create a task plan.



1. Plan Name

The plan name is required and should be within 50 characters.

2. Flight Route

Click to select a flight route. Only flight routes supported by the dock are displayed in the list. A flight route duplicate will be created after selecting a flight route.



The duplicate cannot be modified after the plan is created, and the duplicate will be deleted after the plan is deleted. Modifying the flight route in the flight route library will not affect the flight route duplicate.

3. Device

Only docks can be selected.

4. Plan Timer

Users can select from Immediate, Timed, Recurring, and Continuous.

- When the plan timer is set to Immediate, the aircraft will immediately perform the flight task once the plan is created.
- When the plan timer is set to Timed, the aircraft will perform the flight task when the set time is reached.
- When the plan timer is set to Recurring, the aircraft will perform repeated flight tasks when the set time is reached.
- When the plan timer is set to Continuous, the aircraft will perform flight tasks continuously when the set time is reached and the battery level meets the requirement.

5. RTH Altitude Relative to Dock

The aircraft altitude relative to the dock when the aircraft is returning to the dock (Altitude range: 20 m - 1500 m). The RTH altitude should be set based on the actual flight condition, surrounding environment, and GEO information. It is recommended that the altitude is set higher than the highest geographical point in the flight area and should be lower than the maximum flight altitude.

6. Signal Lost During Flight

The aircraft will return to home or continue the flight task when it is disconnected from the dock.

7. Upon Completion

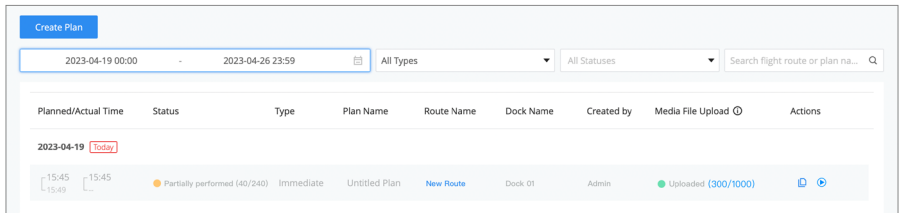
Only Return to Home is supported when creating a task plan.


8. Resume Flight from Breakpoint

When a task cannot be completed by one single flight, a new task will automatically be generated, and the aircraft will resume the flight from the breakpoint and complete the task after being fully charged.

Manage Task Plans

Project members can view the task plan details, including planned and actual task time, task status, type, plan name, route name, device name, plan creator, and media file upload status. Project administrators can perform actions on the task plan.



1. **Planned/Actual Time:** Displays the planned time of the task plan and the actual time when the task is performed. The planned time is estimated and can only be used as a reference.
2. **Status:** Includes To be performed, In progress, Task completed, Partially performed, Task failed, Task ended, and Suspended.
3. **Type:** Includes Immediate, Timed, Recurring, and Continuous.
4. **Route Name:** Displays the flight route duplicate name. Click to view the duplicate in the editor. Editing and saving the duplicate are not supported.
5. **Media File Upload:** Displays the media file upload status, including the number of uploaded files and total number. The media file upload statuses include Waiting to upload, Uploading, and Uploaded. Click to view media files in the Media Files library. The upload sequence of the media files is as follows:
 - a. Media files of the Immediate flight task will be uploaded first. Media files of the Timed and Recurring tasks will be uploaded according to its actual completion time.
 - b. Users can click Upload Now to prioritize the upload of the selected media files.
6. **Actions:**
 - a. For the flight tasks that are to be performed, users can edit, suspend, or delete the tasks. After the flight tasks are suspended, the aircraft will not perform the tasks. Users can resume the task so that the aircraft can continue performing the task. If the flight task exceeds the planned time, the task will be shown as failed.
 - b. For the flight tasks that are performed, users can click to copy the flight task, enter the flight route editor, and edit to create a new task plan.
 - c. For the flight tasks that are partially performed, users can choose to resume the flight from the breakpoint. After clicking , a new task will automatically be generated and the aircraft will resume the flight from the breakpoint and complete the task after being fully charged.

DJI Support

<https://www.dji.com/support>

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