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# **FireMapper InFlight Manual**

**Fire Front Solutions Pty Ltd**

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FireMapper InFlight is an Android application for connecting DJI aircraft to FireMapper. It allows RPAS pilots to share points, lines, photos and the drone's location in real-time with FireMapper.

*InFlight* app is designed to connect to *FireMapper iOS/Android* via a local Wi-Fi connection. This can either be achieved by connecting both devices to the same mobile Wi-Fi hotspot or by using a mobile phone running FireMapper as a Wi-Fi hotspot and connecting the controller running *InFlight* to the phone's hotspot.

## INFLIGHT COMPATIBILITY

### 1.1 Supported DJI Aircraft

The following DJI aircraft are supported by InFlight:

- **DJI Mini 3**
- **DJI Mini 3 Pro** (*with RC-N1 controller only*)
- **DJI Mini 4 Pro** (*with RC-N2/RC-N3 controller only*)
- **Mavic 3 Enterprise Series** (*M3E, M3T, M3TA*)
- **DJI Mavic 3M**
- **Matrice 30 Series** (*M30, M30T*)
- **Matrice 4 Series** *\*(4E/4T/4D/4TD)*
- **Matrice 300 RTK**
- **Matrice 350 RTK**
- **Matrice 400**



**DJI Mini 3**



**DJI Mini 3 Pro**



**DJI Mini 4 Pro**



**DJI Mavic 3  
Enterprise**



**DJI Mavic 3M**



**DJI Matrice  
M30 Series**



**DJI Matrice Series  
4E/4T/4D/4DT**



**Matrice 300 RTK**



**Matrice 350 RTK**



**Matrice 400 RTK**

## 1.2 Supported DJI Controllers

FireMapper InFlight can be installed directly as an Android application on the following DJI controllers:

- **DJI RC Plus** (*Matrice 30, Matrice 300 RTK, Matrice 350 RTK*)
- **DJI RC Plus 2** (*Matrice 4D/4T/4E, Matrice 400*)
- **DJI RC Pro** (*DJI Mavic 3 Enterprise*)
- **DJI RC Pro 2** (*DJI Mini 4 Pro*)
- **DJI Smart Controller Enterprise** (*Mavic 3 Enterprise, Matrice 300 RTK, Matrice 350 RTK*)
- **DJI RC Pro Enterprise** (*Mavic 3 Enterprise*)

**DJI RC Plus****DJI RC Plus 2****DJI RC PRO****DJI RC PRO 2****DJI Smart Controller  
Enterprise****DJI RC Pro  
Enterprise**

#### **DJI Controllers (requiring USB connection to Android device running InFlight)**

The *InFlight* app can also be installed on an Android device to be used with the following DJI controllers.

- **DJI RC-N1** (*DJI Mini 3/DJI Mini 3 Pro*)
- **DJI RC-N3** (*DJI Mini 4 Pro*)

**DJI RC N1****DJI RC N3**

The Android running InFlight app must be connected to the remote controller via USB C connection at the top of the controller. This setup is only used for the *DJI Mini 3* and *DJI Mini 4 Pro* series of drones. Some cables USB cables may have a controller icon on one end to indicate which end should be plugged into the controller.



**Note:** The *DJI RC* controller is not supported. Use the *RC-N1/RC-N3* controller instead with an Android phone running *InFlight* connected via USB to the top of the controller.



## INSTALLING INFLIGHT

DJI Remote Controllers do not have access to the Google Play Store by default, so the InFlight app must be side-loaded by installing the APK file directly.

**Note:** Access to the InFlight APK is available by support only. Please contact our support desk at [support@firemapper.app](mailto:support@firemapper.app).

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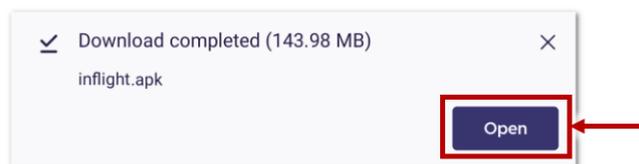
### 2.1 DJI Controllers Setup

The following instructions outline how to install the InFlight APK directly on *supported DJI controllers*

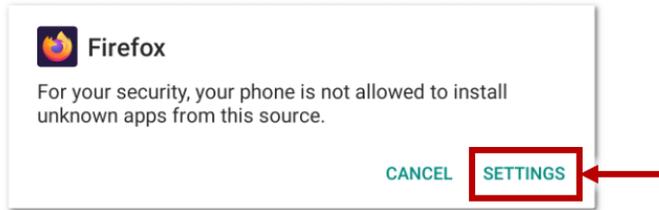
1. Open the **Firefox** app on your DJI Controller.



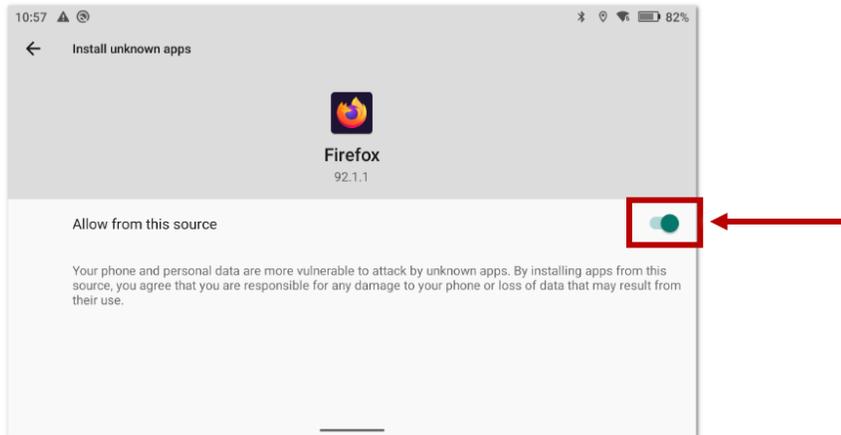
2. Download the **InFlight APK file** using the provided URL from FireMapper Support
3. Once the download is complete, tap the **Open** folder in Firefox.



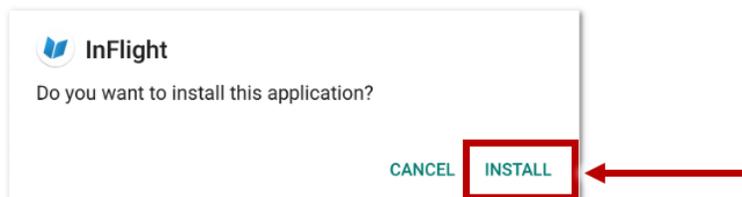
4. If you see a “*For your security, your phone is not allowed to install unknown apps from this source*” message, tap the **Settings** button. This is because you are trying to install an application from outside of the Google Play Store, which can be dangerous if the source is not trusted.



5. **Enable** the option to **allow installation from this source** for *Firefox* app. This will allow the *Firefox* app to install Android apps using APK files.



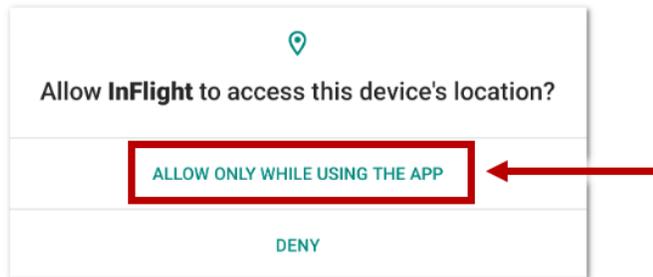
6. Return to the **Firefox** application and tap **Install** to install the InFlight APK.



7. Open the **InFlight** app from the home screen. You may need to scroll to the second page on the home screen to find it.



8. Tap **Allow InFlight to access this device's location** when prompted. This is required for InFlight to access the GPS location.



9. Start the **InFlight** application and make sure you are connected to the internet. InFlight will automatically complete the DJI SDK registration in the background. You must start InFlight at least once with an internet connection for this to complete successfully.
10. You will now need to **Pair with FireMapper** in order to connect to FireMapper. More information can be found in the *Pairing* section of this manual.



## 2.2 Android Device Setup (DJI N-Series Controllers Only)

The InFlight APK can also be installed on a phone running an Android 7 or later if you are using a DJI N-Series controller without a built-in screen. This setup is only used for the *DJI Mini 3*, *DJI Mini 3 Pro* & *DJI Mini 4 Pro* drones with the *DJI RC-N1 controller* or *DJI RC-N3 controller*.

The minimum Android version that is supported by InFlight is Android 7.0 and above. We only support Android devices with *arm64-v8a* hardware CPU architecture. InFlight will not run on older 32 bit CPUs (due to a limitation from the DJI Mobile SDK v5). Only 64 bit CPUs are supported.

If you try to install InFlight on an unsupported device you will get an error message saying **“App not installed”**. If you are using a really old version of Android, it may not be possible to install InFlight due to the 32 bit CPU architecture limitation.



DJI USB OTG Cable

DJI RC N Series Remote Controller



DJI USB OTG Cable

DJI RC N Series Remote Controller

## PAIRING FIREMAPPER

InFlight uses a secure pairing system to connect to FireMapper over a local Wi-Fi network. The QR code displayed in InFlight contains an encrypted token that allows an individual FireMapper instance to securely connect to InFlight.

You can only be paired to one device at a time. You will need to re-pair if InFlight has been paired with a different FireMapper instance since you have last used it.

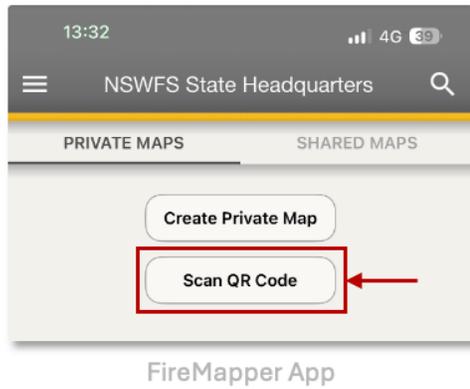
1. Ensure both the device running **FireMapper Enterprise** and the device running **InFlight** are connected to the same local Wi-Fi connection. Both devices can either be on the same Wi-Fi router, or the FireMapper device can be running a mobile hotspot for the InFlight device to connect to.
2. Start the **InFlight** application and go to the **Pairing** screen. This will be the first screen displayed when InFlight is started if it is not currently paired.



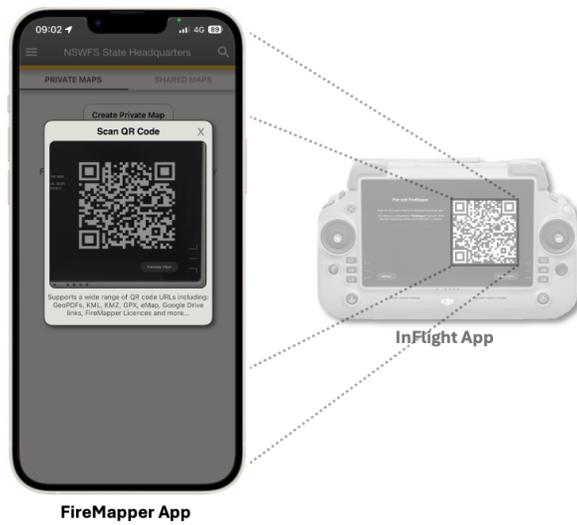
InFlight App

Scan this QR code with  
FireMapper app

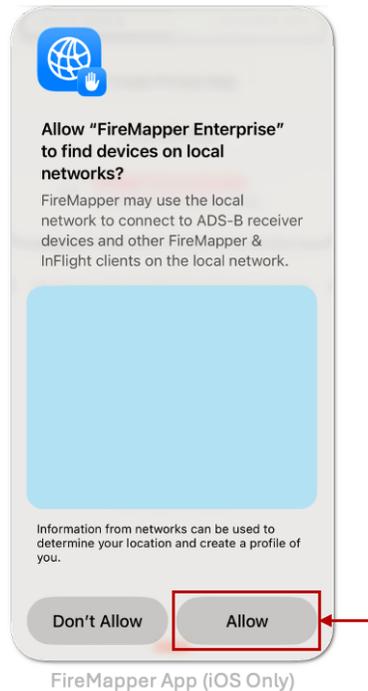
3. On the device running **FireMapper Enterprise**, open the application and ensure that you are logged in first. Tap the **Scan QR Code** button on the main menu. You can not pair with InFlight if you are not logged into a FireMapper.



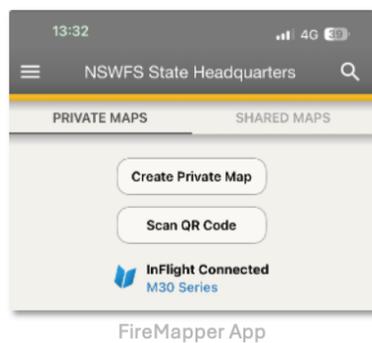
4. Scan the InFlight QR code using the FireMapper iOS/Android device.



5. On iOS devices, you may be prompted to allow FireMapper Enterprise to access the local network. If you do not allow access, FireMapper will not be able to connect to it on the network.



6. The FireMapper Enterprise device should now be paired with InFlight. The InFlight application will display a confirmation message.



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### Note: Troubleshooting FireMapper iOS Pairing

If you are pairing with FireMapper iOS, make sure you don't have *FireMapper Standard* installed on the same device. There is a known issue with InFlight if both the Standard and Enterprise versions of FireMapper are installed on the same iOS device. If you have both versions installed, you will need to uninstall *FireMapper Standard* if you want to pair with InFlight.

FireMapper Enterprise iOS requires access to the local network to connect to InFlight. If you are having issues pairing, check the permissions using the following steps:

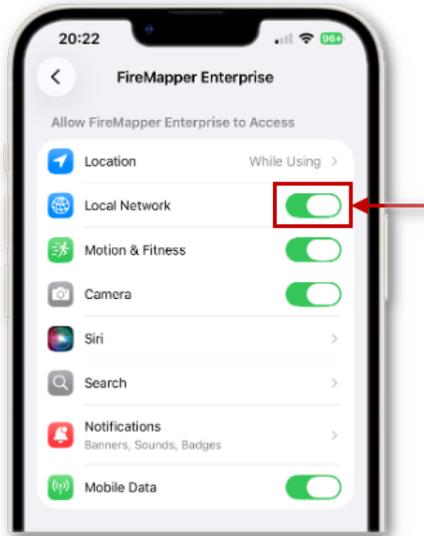
1. Open **Settings** app, and select **Apps**



2. Select **FireMapper Enterprise** from the list of apps.



3. Ensure that **Local Network Access** permission is enabled. The local network access permission may only appear after you have attempted to pair with InFlight (without FireMapper Standard installed)



Settings App

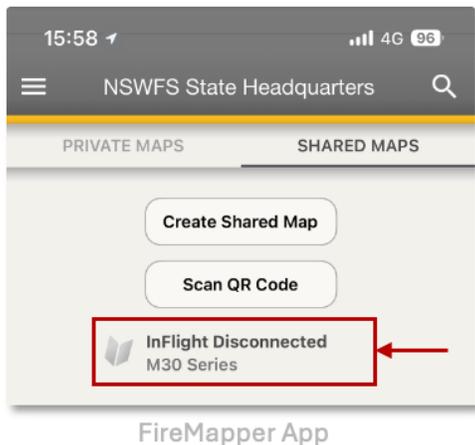
## UNPAIRING FIREMAPPER

You can unpair FireMapper from InFlight from either the FireMapper device or the InFlight device.

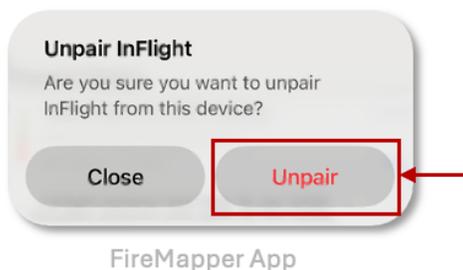
### Unpairing via FireMapper App

You can unpair FireMapper from InFlight by following these steps. This is useful if you no longer want to connect to InFlight. If you want to connect to a different InFlight instance, you can simply scan the new QR code without unpairing first.

1. Open the **FireMapper Enterprise** application on your iOS/Android device.
2. Tap the **InFlight Status** on the main menu.



3. Tap the **Unpair** button on the confirmation dialog.



### Unpairing via InFlight App

You can unpair FireMapper from InFlight by following these steps. This is useful if you want to connect to a different FireMapper instance. You must unpair first before you can pair with another FireMapper app.

1. Open the **InFlight** application on your drone controller device.

2. Tap the **Unpair FireMapper** button on the pairing screen.



InFlight App

## STATUS SCREEN

This screen displays the current connection status between the drone, InFlight and FireMapper.

Once paired, the home screen will be displayed. This screen shows an overview of the system's connection status between the drone, InFlight and FireMapper, and allows navigation to the Pilot View or Settings.



Here is a list of common status messages that may appear on the status screen and how to resolve them:

Error Message	Description
	<p><b>DJI SDK Registration Error</b></p> <p>InFlight requires an internet connection after installation to register the DJI SDK. You will not be able to connect to the DJI drone to the InFlight app until this is completed.</p> <p>Make sure the device is connected to the Internet and restart InFlight app (if required).</p>
	<p><b>Controller - Disconnected</b></p> <p>The DJI remote controller is not connected to the InFlight app. This message can occur if you are running InFlight on a Android phone or tablet instead of a DJI Controller.</p> <p>You should only be using InFlight on an Android if you are trying to use it with the <i>DJI Mini 3</i>, <i>DJI Mini 3 Pro</i> or <i>DJI Mini 4 Pro</i> drones with <i>RC-N1</i> or <i>RC-N3</i></p> <p>Connect the Android device running InFlight to the USB-C connection at the top of the <i>RC-N1</i> or <i>RC-N3</i> controller. Do not use the USB-C connection at the bottom of the remote controller to connect to the Android device as this is the wrong port. Use the USB cable that was supplied with the remote controller (make sure the side connected to the controller has the controller icon on the cable).</p> <p>Ensure that the DJI remote controller is powered on (check green status lights).</p>
	<p><b>Aircraft - Disconnected</b></p> <p>The DJI remote controller is unable to connect to the aircraft. This can occur if the aircraft is out of range or not turned on.</p> <p>If this occurs during flight, adjust the remote controller antenna to avoid any null spots and move closer to the drone.</p> <p>If this occurs before flight, make sure the drone is</p>

## PILOT VIEW



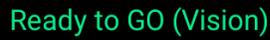
### 6.1 Top Status Bar



The Top Bar shows important system status information including Flight Status, System Status, GNSS Status, Flight Mode, Vision System, Signal Strength and Battery Information as well as access to Pre-Flight Checklist and Settings.

### 6.1.1 Flight Status

The Flight Status widget indicates the current flight status of the drone. Warnings are displayed in orange and errors are displayed in red. Tap the Flight Status widget to enter the Preflight Check view.

A black rectangular box with the text "Ready to GO (Vision)" in green.A black rectangular box with the text "Altitude Limit" in orange.A black rectangular box with the text "Aircraft disconnected" in red.

### 6.1.2 System Status Bar

Indicates the system status and shows warning messages. New alerts that appear here during flight will be displayed here and continue flashing. You can tap to view more information and stop the flashing.

A black rectangular box with the text "Normal" in white.A small orange square icon with the number "1" in white.An orange rectangular box with the text "Upward vision sensors blo" in white.

### 6.1.3 GNSS Status

The status of the GNSS positioning. Displays the number of satellites and for drones with RTK, the RTK icon is displayed white for enabled and grey for disabled.



## 6.1.4 Flight Mode

Flight modes and variations are shown below.

Icon	Description
 P-GPS	<p><b>P-GPS</b></p> <p>Positioning mode. The drone uses GPS to keep the drone position stable.</p>
 APAS	<p><b>APAS</b></p> <p>Advanced Pilot Assistance System is enabled for some drones when in P-mode and obstacle avoidance has been set to Avoid.</p>
 OPTI	<p><b>OPTI</b></p> <p>When in P-mode and there is no satellite positioning available, the drone uses the downward vision system for positioning.</p>
 Sport	<p><b>Sport Mode</b></p> <p>Sport Mode is characterised by increased speed and agility. Obstacle avoidance is disabled.</p>
 P-Atti	<p><b>Atti Mode</b></p> <p>Atti Mode does not use satellites to keep the drone in place and the pilot needs to rely on stick movements to control the position of the drone.</p>

### 6.1.5 Vision System Status

The upper part of the Vision System Status indicator relates to the Forward Vision System. The lower part relates to the Backward Vision System. The icon is green if working normally and is red when unavailable.

Icon	Description
	<p><b>Fully functional</b> The Vision System is fully functional.</p>
	<p><b>Not functional</b> The Vision System is not available.</p>
	<p><b>Partially functional</b> The Vision System is partially unavailable.</p>

### 6.1.6 Signal Strength

The signal quality for the connection for the HD video and remote controller link



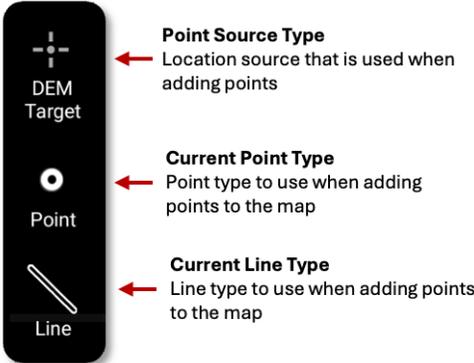
### 6.1.7 Aircraft Battery Status

Displays the current status of the aircraft battery.



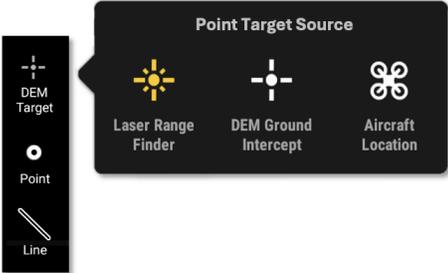
## 6.2 Left Sidebar

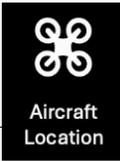
The left sidebar allows the user to configure settings related to recording points and lines with FireMapper. This sidebar is only visible when the Zoom, Wide or IR camera views are selected. It is not available when the FPV camera view or Map View is selected.



### 6.2.1 Point Target Source

There are three options available for recording a point in FireMapper, these include Laser Target, DEM Target, and Drone Location.



Point Target	Description
	<p><b>Laser Rangefinder Target</b></p> <p>InFlight will use the laser rangefinder on the gimbal to determine the location of the target in the centre of the camera view. This provides the most accurate way to record a point in FireMapper compared to DEM target. Dense smoke may cause interference with the laser target.</p> <p>This option is only available for drones that are equipped with a laser rangefinder (e.g. M30T, Matrice 4, etc). Some drones such as the Mavic 3 Enterprise, Mini 4 Pro do not have a laser rangefinder</p> <p>This method does not require an internet connection as a DEM model is not required and works offline.</p>
	<p><b>DEM Ground Intercept Target</b></p> <p>InFlight will use a digital elevation model (DEM) to estimate the location of the target in the centre of the camera view. This method uses the angle of the camera and the altitude of the drone to estimate where the camera is pointing on the ground.</p> <p>This method requires an internet connection to download the DEM data for the area being flown and may not be as accurate as using the laser rangefinder, especially in areas with steep terrain.</p> <p>The camera needs to be pointing down towards the ground with at least 20 degrees down to estimate the target location accurately.</p>
	<p><b>Aircraft Location Target</b></p> <p>InFlight will record the current location of the drone as the point location in FireMapper</p>

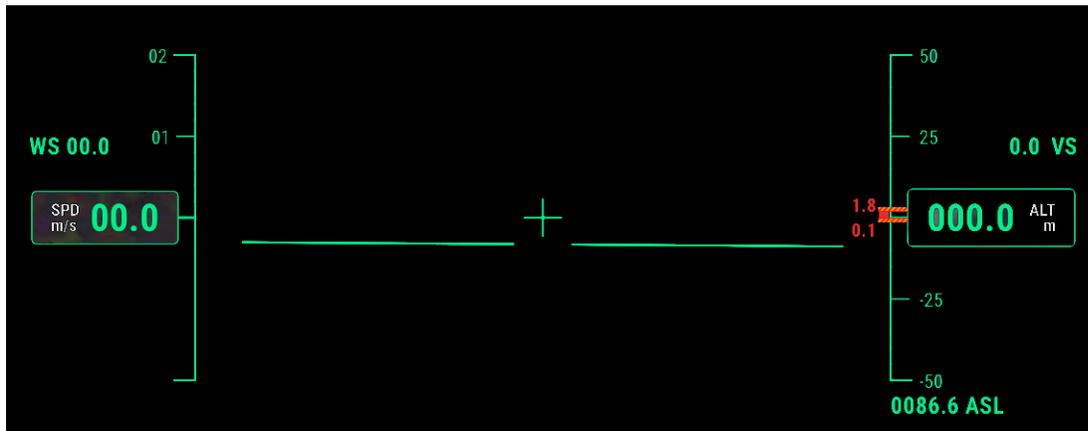
## 6.3 FPV Camera

The First Person View (FPV) camera provides a live video feed from the front of the drone, allowing the pilot to see exactly what the drone sees in real-time. This is particularly useful for navigating, while another operator is managing the gimbal camera to capture photos and take observations.

The FPV camera view is optimized for flying the drone. The mark point and lines tools are not available for this camera.

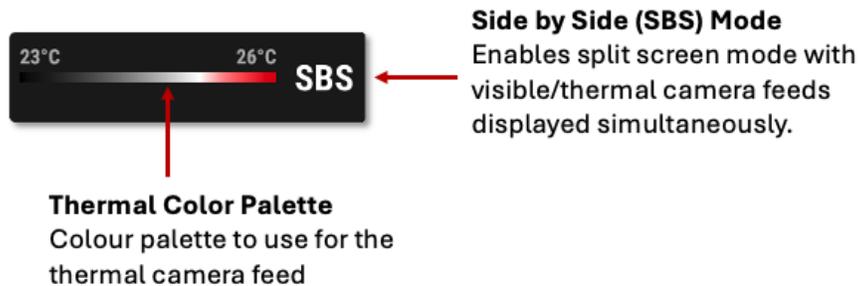
### 6.3.1 Primary Flight Display

The Primary Flight Display (PFD) is overlaid on the FPV camera view to provide the pilot with essential flight information. This includes altitude, speed, heading, and wind speed, allowing the pilot to maintain situational awareness while focusing on flying the drone.



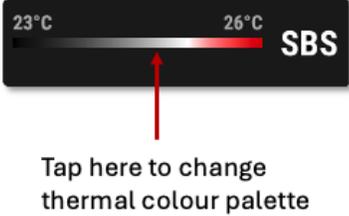
## 6.4 IR Camera

The Thermal camera view is available when the drone is equipped with a thermal camera (e.g. DJI M30T, Matrice 4T)

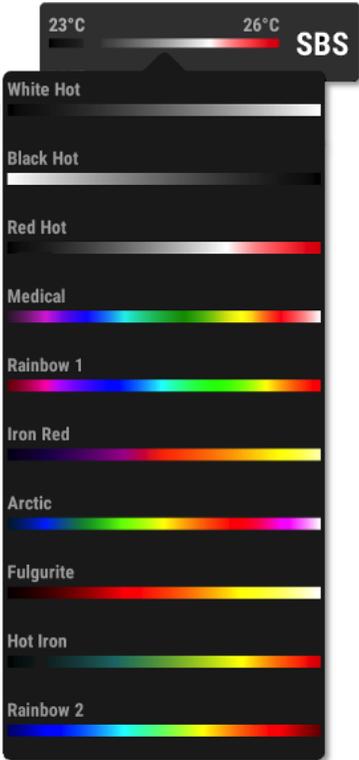


### 6.4.1 Change Thermal Palette

- 1. Select the **IR Camera** view
- 2. Tap the **Palette** in the Thermal Camera toolbar in the top right corner of the screen.

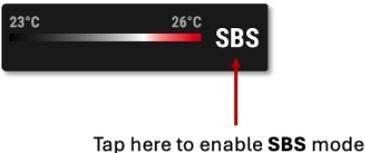


- 3. Select the desired **Color Palette** from the list.



### 6.4.2 Side By Side Mode

- 1. Select the **IR Camera** view
- 2. Tap the **SBS** button in the Thermal Camera toolbar in the top right corner of the screen.



3. The camera view will switch to Side By Side mode, displaying both the RGB and Thermal camera views side by side.



InFlight App

4. To exit Side By Side mode, tap the **SBS** button again.



Tap here to disable **SBS** mode

## 6.5 Target Info Panel

The *Target Info Panel* displays the coordinates for the current point source (e.g. *Laser Target*, *DEM Target*, or *Aircraft Location*). The Target Info panel is located on the right side of the pilot screen.

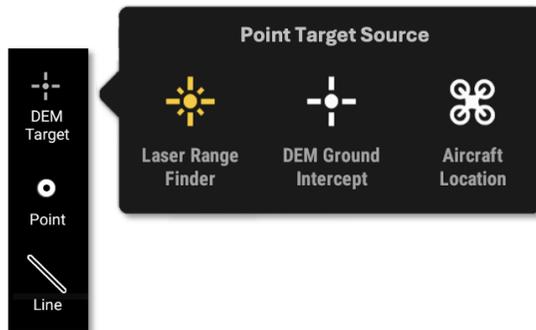
### 6.5.1 Change Target Source

There are three coordinate source options available for the *Target Info Panel*. These include *Laser Rangefinder*, *DEM Ground Intercept*, and *Aircraft Location*.

Target Info Panel	Coordinate Source
<div data-bbox="418 317 602 449" style="background-color: black; color: white; padding: 5px;">           Laser Target:            -33.77580°            151.24777°            12 m (RNG)         </div>	<p data-bbox="824 491 1036 520"><b>Laser Rangefinder</b></p> <p data-bbox="824 527 1344 722">Displays the coordinates of the center of the camera using the laser range finder. This is more accurate than the DEM Ground Intercept Target. This option is only available for for drones that are equipped with a laser rangefinder (e.g. M30T, Matrice 4, etc)</p> <p data-bbox="824 768 1295 827">This method does not require an internet connection as a DEM model is not required.</p>
<div data-bbox="418 869 651 1001" style="background-color: black; color: white; padding: 5px;">           DEM Ground Intercept:            -33.77580°            151.24777°            45 m (ASL)         </div>	<p data-bbox="824 1052 1094 1081"><b>DEM Ground Intercept</b></p> <p data-bbox="824 1087 1349 1383">Displays the coordinates of the center of the camera using the camera direction, aircraft location and digital elevation model. This option is less accurate than the laser target and requires the camera to be pointing down at least 20 degrees towards the ground. The aircraft should be at least 10m above the ground. This methods requires an internet connection to download the DEM data for the area being flown.</p>
<div data-bbox="418 1430 602 1535" style="background-color: black; color: white; padding: 5px;">           Aircraft Location:            -33.77580°            151.24777°         </div>	<p data-bbox="824 1583 1024 1612"><b>Aircraft Location</b></p> <p data-bbox="824 1619 1312 1745">Displays the current coordinates of the drone. This is useful for displaying the location of the drone itself, rather than a target on the camera.</p>

You can change the source for the Target Info panel from the left sidebar by selecting the desired option from the **Point**

Target Source section.



## 6.5.2 Coordinate Formats

The Target Info panel can display coordinates in a variety of formats, including *Latitude/Longitude*, *MGRS*, *UTM*, and grid references.

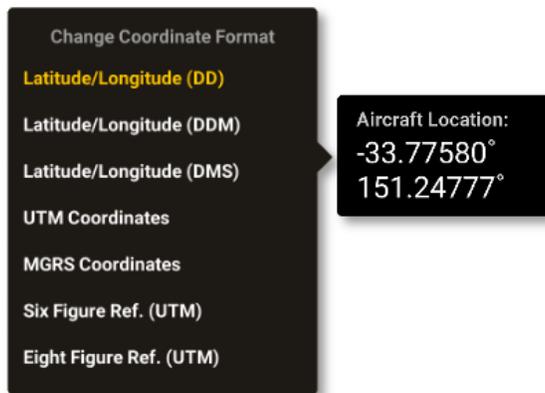
Aircraft Location: -33.77580° 151.24777°	<b>Latitude/Longitude (DD)</b> Decimal Degrees (WGS 84)
Aircraft Location: -33° 46.548' 151° 14.866'	<b>Latitude/Longitude (DDM)</b> Degrees Decimal Minutes (WGS 84)
Aircraft Location: -33° 46' 32.9" 151° 14' 52.0"	<b>Latitude/Longitude (DMS)</b> Degrees Minutes Seconds (WGS 84)
Aircraft Location: 56H 0337751 mE 6261322 mN	<b>UTM Coordinates</b> UTM Zone, Easting, Northing
Aircraft Location: 56H LH 37751 61322	<b>MGRS Coordinates</b> UTM Zone, Digraph, Easting, Northing
Aircraft Location: 377 613	<b>6 Figure Grid Reference</b> UTM Grid Reference 100m x 100m
Aircraft Location: 3775 6132	<b>8 Figure Grid Reference</b> UTM Grid Reference 10m x 10m

To change the coordinate format:

1. Tap **Target Info** Panel on the right side of the pilot screen.



2. Select the desired **Coordinate Format** from the list.



## 6.6 Preflight Checklist

The Preflight Checklist contains important information about the flight controller settings including max altitude, max distance, return to home altitude, obstacle sensing status and more.

1. Tap the **Flight Status** at the top of the pilot screen.



2. Review the Flight Settings and ensure that they are configured correctly for your flight. It is important to review this information before each flight to ensure that your drone is configured correctly for the flight.



InFlight App

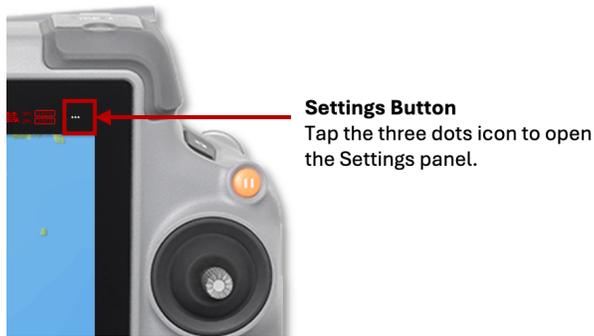
## 6.7 Settings Panel

The settings panel allows you to configure Flight Controller, Obstacle Sensing, Flight Controller & Image Transmission Settings.

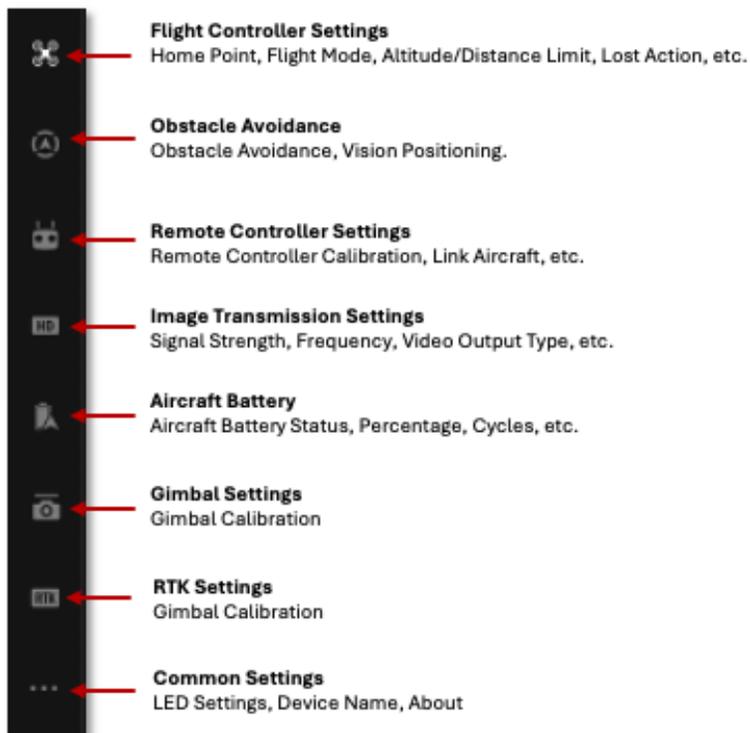


**Settings Panel**  
Flight Controller, Obstacle Sensing, Flight Controller, Image Transmission, Battery, Gimbal, etc.

1. On the Pilot screen, tap the **Settings** button in the top right corner. This will open the settings panel on the right side of the screen.



2. Use the tabs on the right side of the panel to switch between the different settings panels.



## 6.8 Marking Points

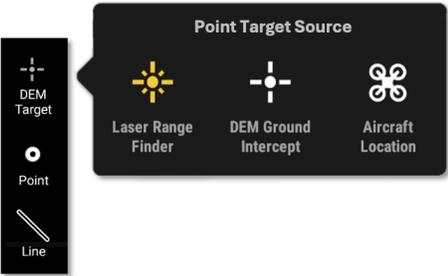
To mark a point in FireMapper:

1. Open the **Map in FireMapper** that you would like to edit on the paired device.



FireMapper App

2. Select the **Point Target Source** type from the left sidebar, if you need to change it. This will determine what InFlight uses as the location to mark the point (e.g. *Laser Target, DEM Target, or Aircraft Location*).



3. Select the **Point Type** from the left sidebar (if required).



4. Tap the **Mark Point** button on the bottom side side of the pilot screen. You can also use the *R1* button to mark the point (e.g. *DJI RC Plus, DJI RC Plus 2, etc*). You can also assign the *C1/C2* buttons if required to mark points in the InFlight settings screen.



## 6.9 Recording Lines

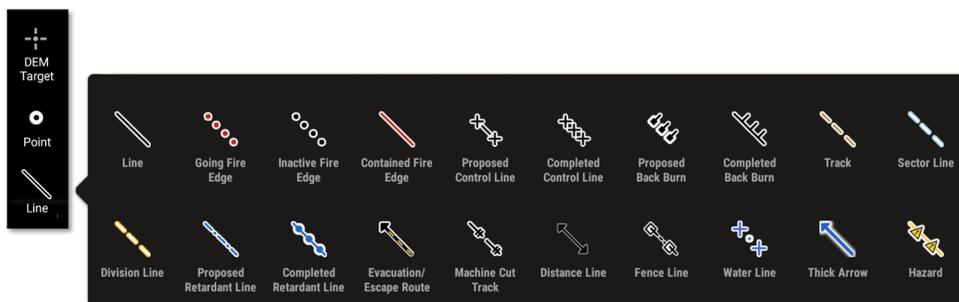
To record a line in FireMapper:

1. Open the **Map in FireMapper** that you would like to edit on the paired device.



FireMapper App

2. Select the **Line Type** from the left sidebar, if you need to change it.



3. Tap the **Start Recording** button to begin recording the line. InFlight will use the drone's location as the source to record the line in FireMapper. You can also use the R2 button to start recording the line (e.g. *DJI RC Plus*, *DJI RC Plus 2*, etc). You can also assign the C1/C2 buttons if required to mark points in the InFlight settings screen.



4. Fly the drone along the desired path to record the line.
5. Tap the **Stop Recording** button to finish recording the line.



## 6.10 Capturing Photos

To capture photos and send them to FireMapper. InFlight & FireMapper do not currently support video capture.

1. Open the **Map in FireMapper** that you would like to edit on the paired device.



2. Select the desired **Camera** using the buttons on the left sidebar. InFlight will only capture a photo from the camera that is currently selected (e.g. Zoom, Wide, IR, etc). If you would like to capture IR & Visible at the same time, use SBS mode on the IR camera view.



3. Tap the **Capture Photo** button on the right side of the pilot screen. You can also use the *Capture* button on the remote controller to capture photos (e.g. *DJI RC Plus*, *DJI RC Plus 2*, etc).



4. The photo will be shared with FireMapper. It takes around 5 seconds to download the photo from the drone and send it to the paired FireMapper device. If you are using a DJI mini series, the live video feed will be paused while the photo is being downloaded. Other drones such as the M30T and Matrice 4 will continue to show the live video feed while the photo is being downloaded.



FireMapper App

## FLIGHT LOGS

The InFlight application automatically generates DJI Flight logs files for each flight. These files only include the telemetry data when logs while InFlight is running in the foreground on the controller.

A new log file is created for each flight or if the user switches between DJI Pilot and InFlight during a flight.

### Accessing the Flight Logs via InFlight Settings.

From the InFlight status screen, go to Settings > Flight Record to view the flight logs available



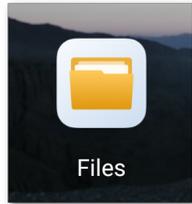
InFlight App

Tap the download button to download a zip file containing all the log files for that day to your downloads folder. Or to share the logs with another app that you have installed on your Smart Controller or Android device, press the share button.

### Accessing the Flight Log via Files App.

You can access the logs using the Files app by following these steps:

1. Open the **Files** app on the DJI Controller from the home screen.



2. Open the sidebar and select **InFlight (DJI Flight Logs)** under **Locations**.



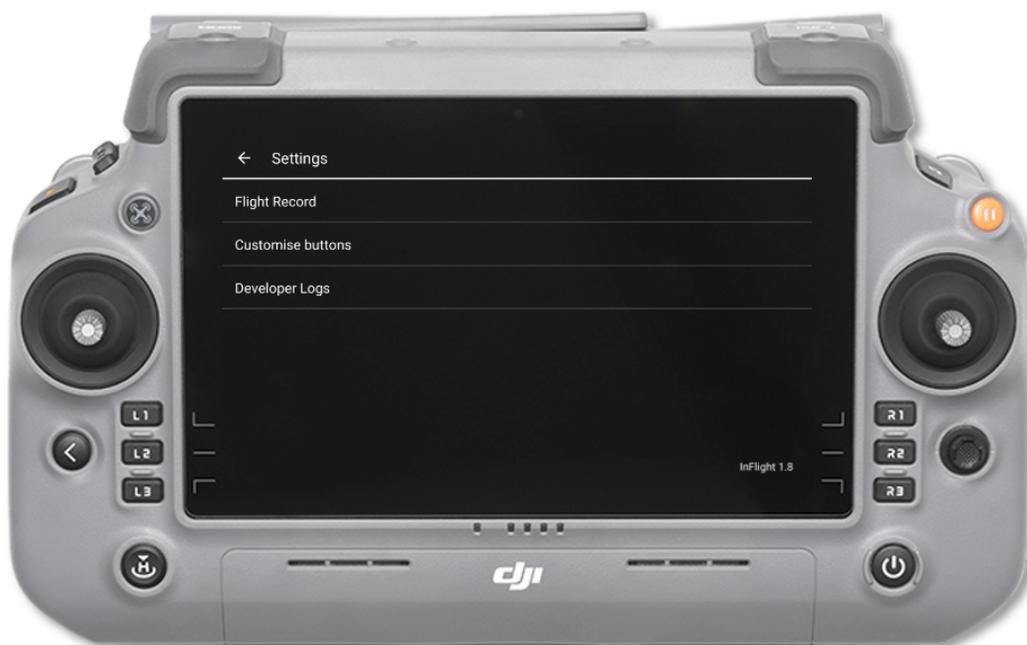
3. The flight logs are stored in the standard DJI Flight Record format.



On older DJI controllers running *Android 10* or lower (such as the *DJI RC Pro*, *DJI RC Plus*), you can also access the logs directly via the application data folder: `Android/data/com.firemapper.inflight/files/FlightRecord/`. The application data folder is not directly accessible on newer DJI controllers running *Android 11* or higher due to improved Android storage restrictions (e.g. *DJI RC Plus 2*).

## SETTINGS SCREEN

The settings screen contains InFlight app logs and an option to customise controller button actions.



InFlight App

### 8.1 Customise Buttons

The C1 and C2 buttons on the controller can be set to perform the following actions:

- Centre Gimbal
- Record Point
- Record Line
- Increase EV
- Decrease EV

