

Matrice 4E How to Use

Preparation & Overview

Edge 2
setup/installation
and logging start

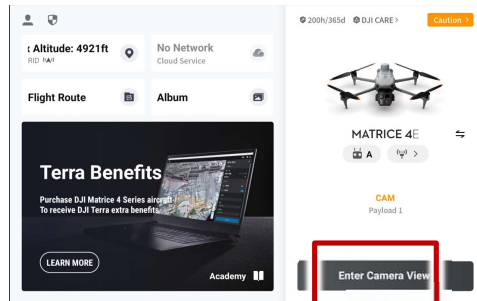
Turn on the drone

Camera settings

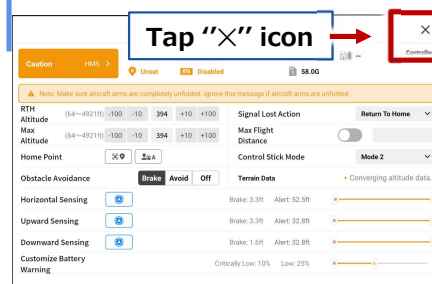
Flight settings (PPK or
RTK)

Start flight

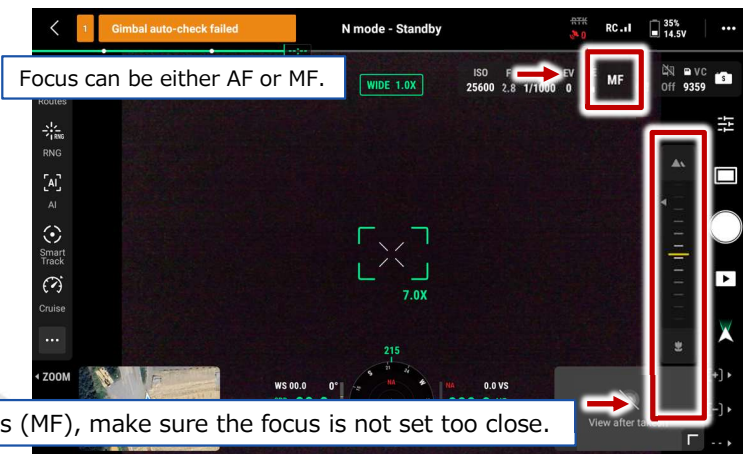
Camera Initial Settings Check



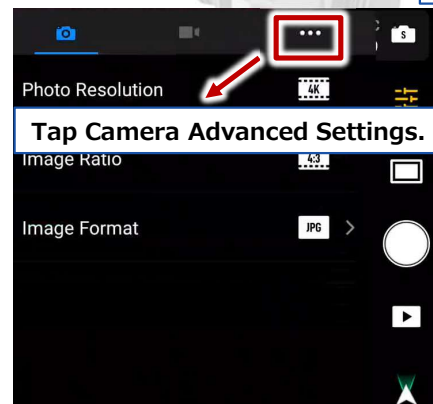
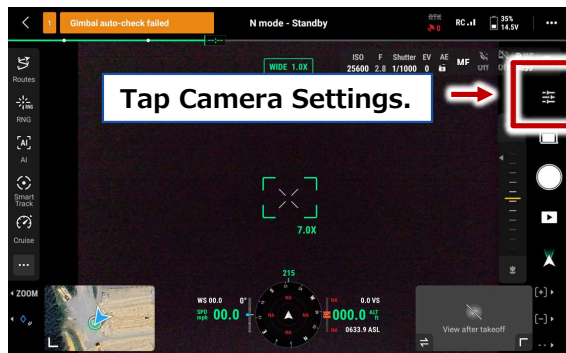
Tap "Enter Camera View"



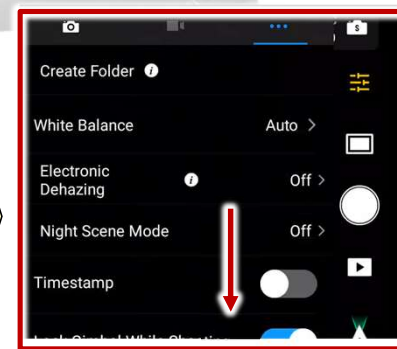
When using manual focus (MF), make sure the focus is not set too close.



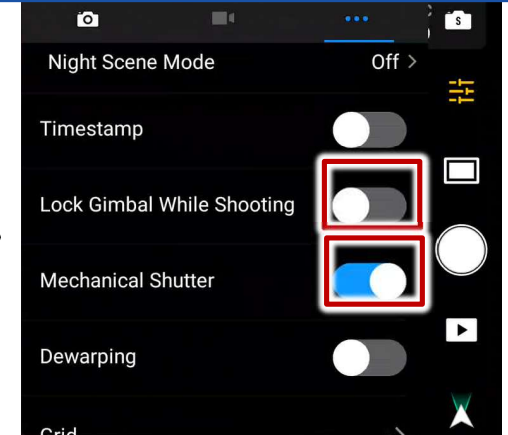
Camera Initial Settings Check (continued)



Confirm that the following are set
to default, then swipe down.

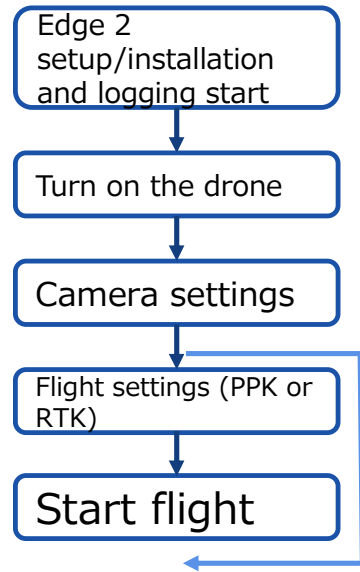


[Note] Set Mechanical Shutter to ON /
Electronic Correction to OFF.

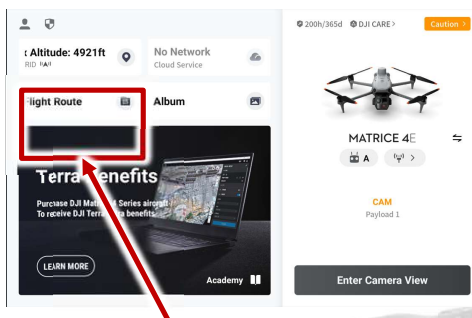


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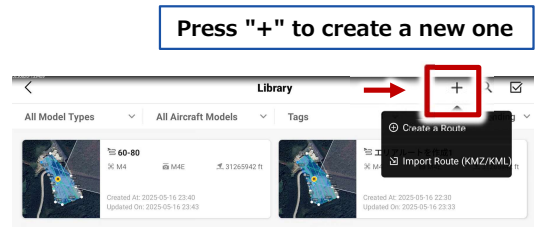


Create Flight Plan

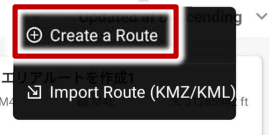


Tap to display the flight plan creation menu

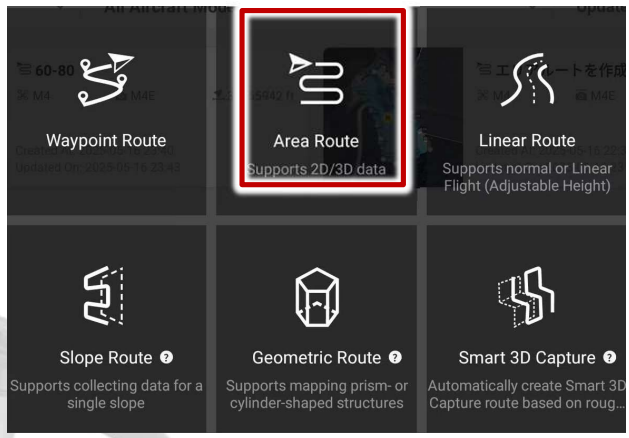
Create New Route



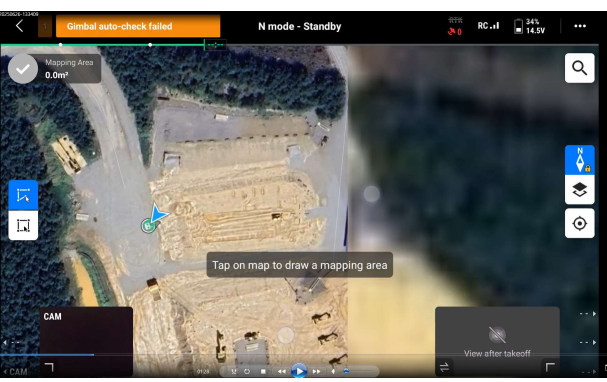
Tap "Create Route"



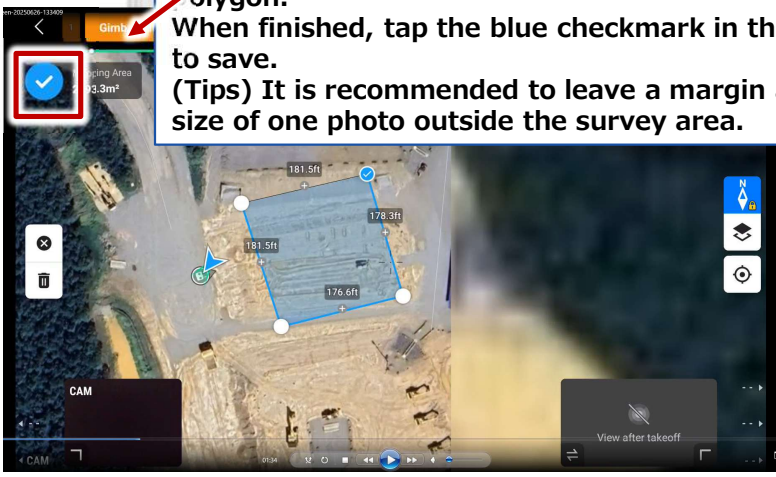
Tap "Area Route"



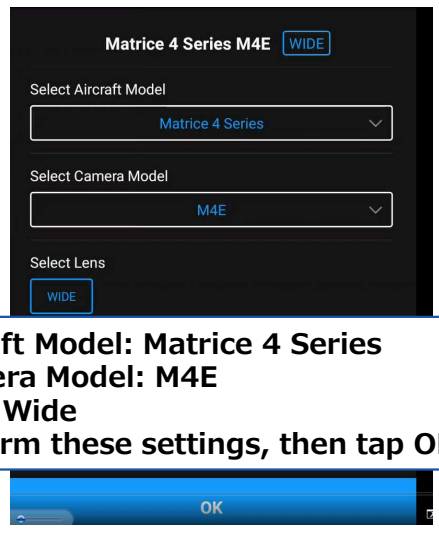
Area Settings



Tap the area you want to survey and enclose it with a polygon.
When finished, tap the blue checkmark in the top left to save.
(Tips) It is recommended to leave a margin about the size of one photo outside the survey area.

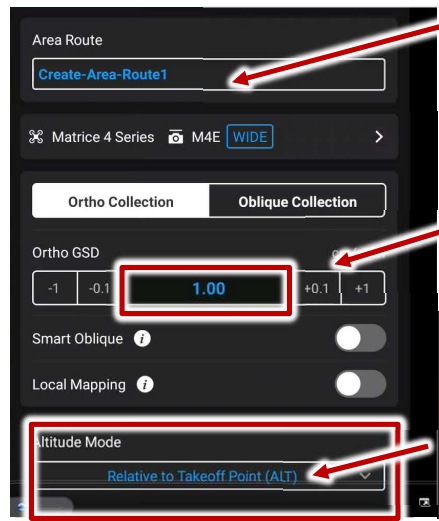


Aircraft Model: Matrice 4 Series
Camera Model: M4E
Lens: Wide
Confirm these settings, then tap OK.



Matrice 4E How to Use

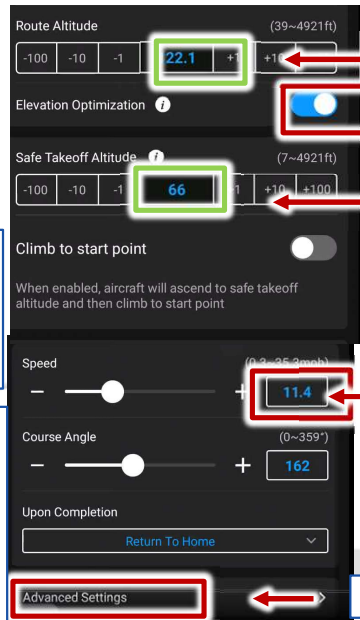
Flight settings



Enter the flight plan name first.
Note: This name will be used for the photo folder on the SD card, so do not use characters that are prohibited on Windows or Mac.

For high-precision requirements, a GSD of 1.00 cm/pixel is recommended. For general measurements such as construction progress, set the GSD to approximately 1–2 cm/pixel

(Tips) For sites with elevation differences, it is recommended to set the altitude mode to AGL and use DSM terrain following. (Details explained later)



Altitude is automatically calculated based on the GSD.

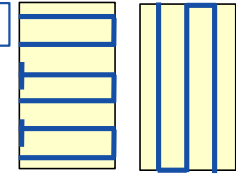
Be sure to turn it ON for higher accuracy.

Set the altitude for moving to the start point after takeoff. Adjust appropriately based on obstacles along the route. If there are no obstacles, use the same value as the route altitude.

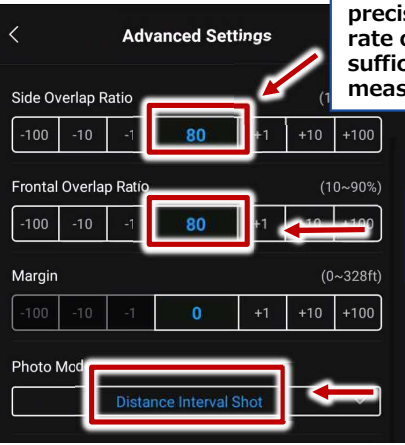
Set to below 12 m/s to ensure high precision.

The course angle is automatically set to match the flight area. To reduce flight time, fewer turnarounds are preferable.

Tap 'Advanced Settings' to configure the overlap rate.



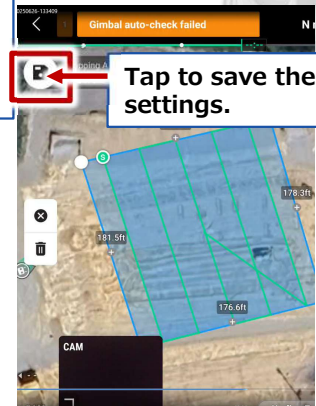
Flight settings



"An side overlap rate of 80 is recommended for high-precision results, while a rate of around 60–70 is sufficient for general measurements."

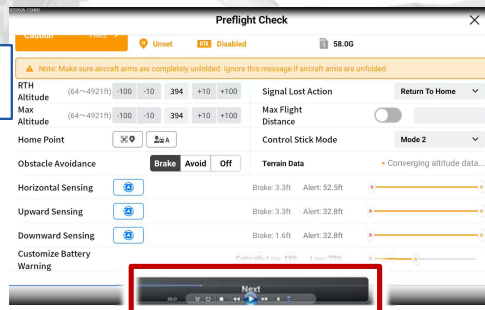
An overlap rate of 80 or higher is recommended

Recommend "Distance interval shot"

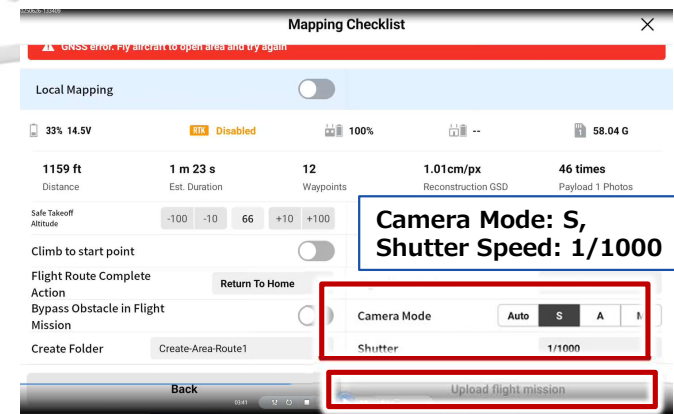


Tap to save the settings.

Flight settings



Tap 'Next'



Camera Mode: S, Shutter Speed: 1/1000

Tap 'Upload Flight Mission' to start the flight.

Matrice 4E How to Use (DSM Terrain Following Flight)

Change Altitude Mode

Altitude Mode

Relative to Takeoff Point (ALT)

Relative to Takeoff Point (ALT)

ASL (EGM96)

AGL

Tap to display the menu.

Switch to AGL

Altitude Mode

AGL

Real-Time Follow

DSM Files

Reselect

Terrain Follow Altitude (82.0~4921.2ft)

-100 -10 -1 122.1 +1 +10 +100

Select the DSM file.

DSM Files

Import Local File

Download from Internet

Select 'Download from Internet'

Waiting for the download

Downloading terrain data: 65% Estimated 00:00:02 left 0.4 MB/s 1 MB / 2 MB

The DSM file information is applied, and the flight altitude is automatically set.

Gimbal auto-check failed N mode - Standby

Mapping Area 2986.6m² Est. Duration 1 m 28 s Est. Storage 46

Altitude Mode

AGL

Real-Time Follow

DSM Files

250626133028_AsterGdemV3_7

Reselect

Terrain Follow Altitude (82.0~4921.2ft)

-100 -10 -1 122.1 +1 +10 +100

Safe Takeoff Altitude (7~4921ft)

-100 -10 -1 66 +1 +10 +100

Set the terrain-following altitude according to the desired GSD.

How to Use the Matrice 4E (Additional Tips)

Changing Flight Settings

Tap to display the menu

Tap the pencil icon to enable editing

Wi-Fi Setup: How to Connect to the

In the Wi-Fi settings menu, configure the SSID and password.
SSID: Serial number of the Edge2
Password: edge2-ap

Sensor calibration

Tap to display the men

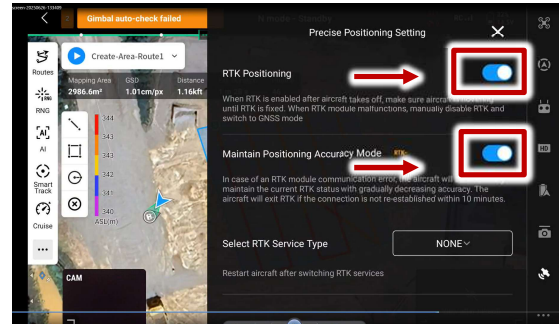
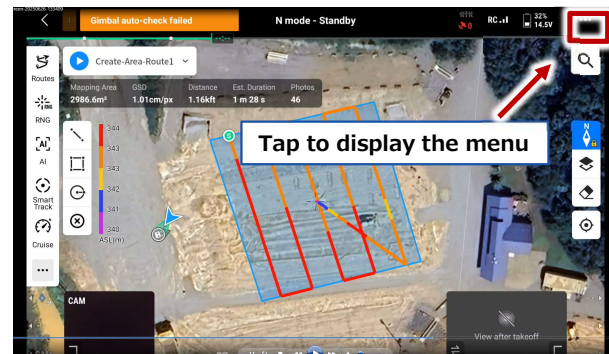
Tap 'Sensor Status'

Check the status of the IMU. If the status is anything other than 'Excellent', tap 'Calibrate IMU'

Check the status of the compass. If the status is anything other than 'Excellent', tap 'Calibrate Compass'

How to Use the Matrice 4E (Additional Tips)

RTK Flight Settings (Optional): **Configuration is not required when using PPK for measurement.**



Tap the satellite icon to display the menu, then turn on RTK positioning.

Once FIX is confirmed, RTK flight is ready.

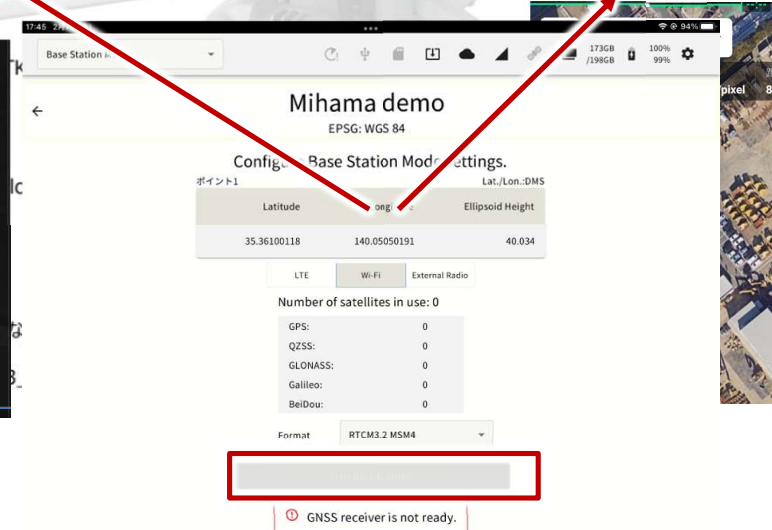
When flying the drone via Edge's Wi-Fi for RTK operation, the Edge base station will broadcast Wi-Fi.



Example settings for Wi-Fi connection:

Name	edge2
NTRIP Address	scedge.local
Port	2101
Account	aaa
Password	...
Mount Point	RTCM3_2_MSM7

Using Edge2 as a Base Station:
Example Settings for Wi-Fi Connection



GNSS receiver is not ready.

When flying the drone in RTK mode via Edge2's NTRIP broadcast, the Edge base station must transmit NTRIP data.

Example settings for NTRIP Server Connection:

Name	edge08
NTRIP Address	rtcmv.smartconstruction.com
Port	2101
Account	ED2JB900027
Password	****
Mount Point	MSM4_RAW

Account: Serial number of Edge2
Password: SC21 (uppercase letters)

Using Edge2 as a Base Station: Example Settings for NTRIP Server Connection