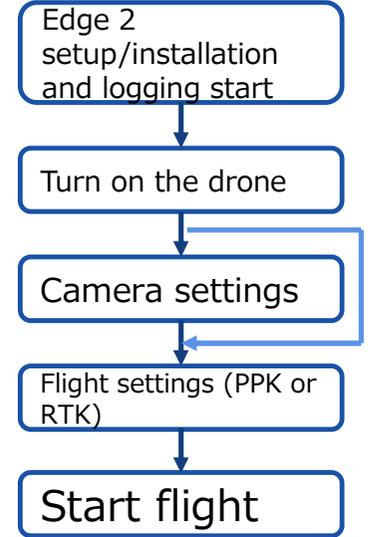


# Matrice 4E How to Use

## Preparation & Overview



## Camera Initial Settings Check

Tap "Enter Camera View"

Tap "X" icon

Ensure that it is set to MF (Manual Focus)

Ensure that the focus is not set to close-up

## Camera Initial Settings Check (continued)

Tap Camera Settings.

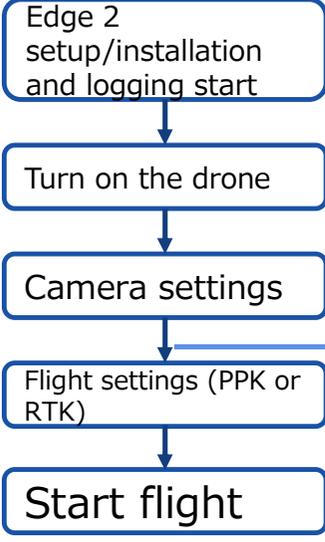
Tap Camera Advanced Settings.

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

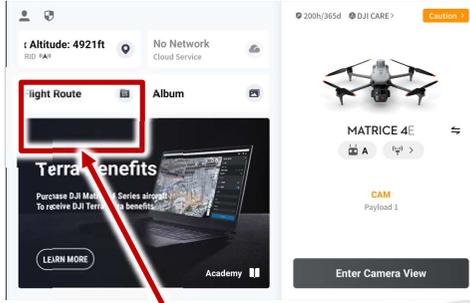
[Note] Set Mechanical Shutter to ON / Electronic Correction to OFF.

# Matrice 4E How to Use

## Preparation & Overview

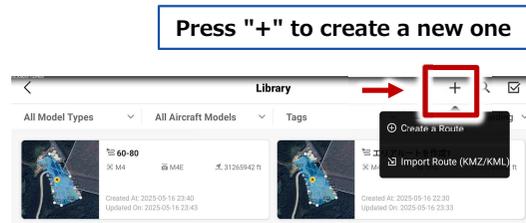


## Create Flight Plan



Tap to display the flight plan creation menu

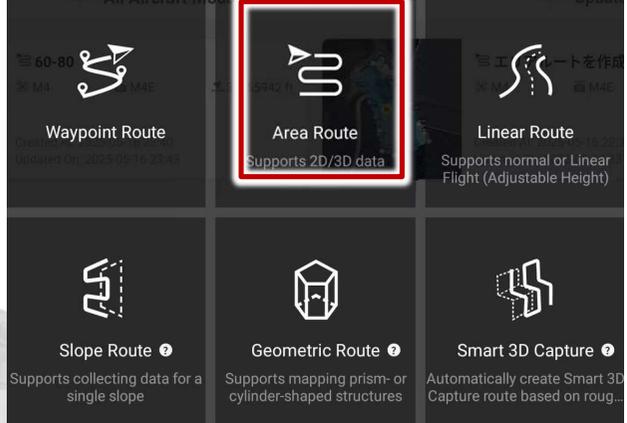
## Create New Route



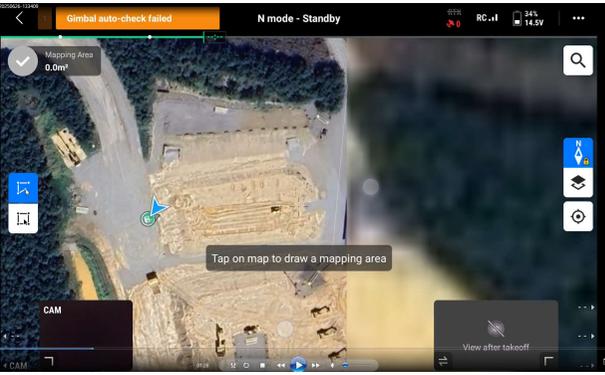
Tap "Create Route"



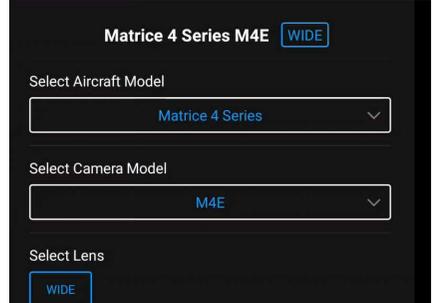
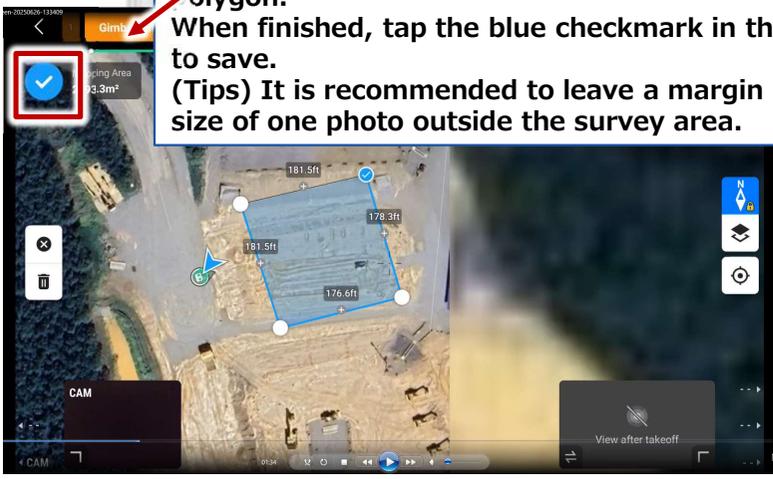
Tap "Area Route"



## 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.

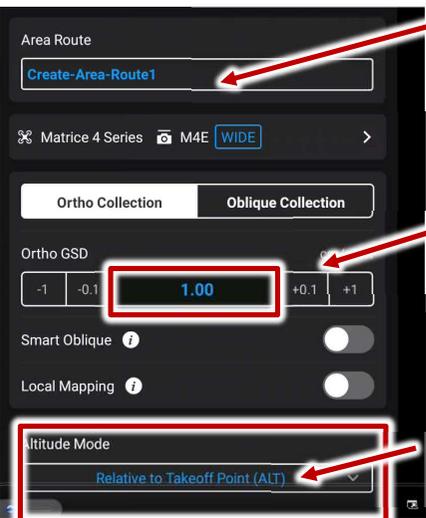


Aircraft Model: Matrice 4 Series  
 Camera Model: M4E  
 Lens: Wide  
 Confirm these settings, then tap OK.



# Matrice 4E How to Use

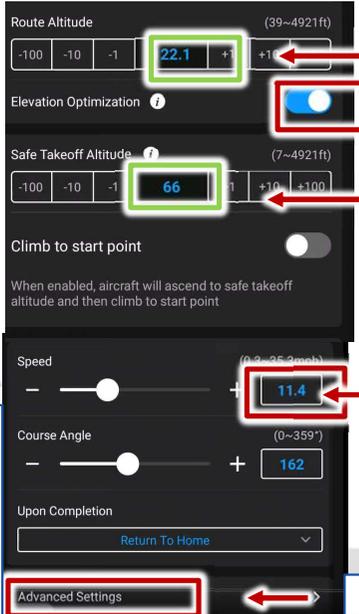
## Flight settings



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.

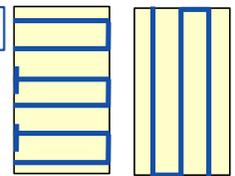
Be sure to turn it ON for higher accuracy.

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.

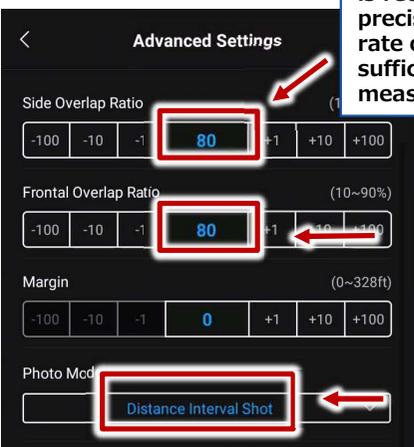


## Flight settings

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

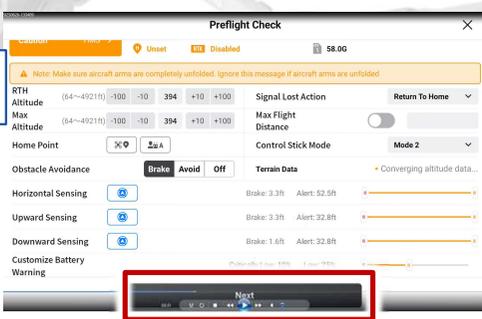
An overlap rate of 80 or higher is recommended

Recommend "Distance interval shot"

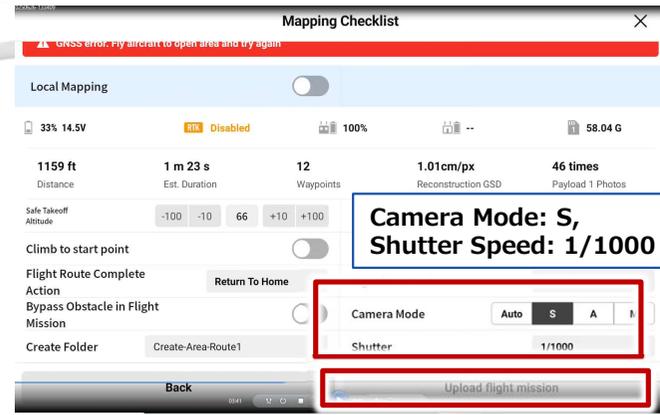


Tap to save the settings.

## Flight settings



Tap 'Next'

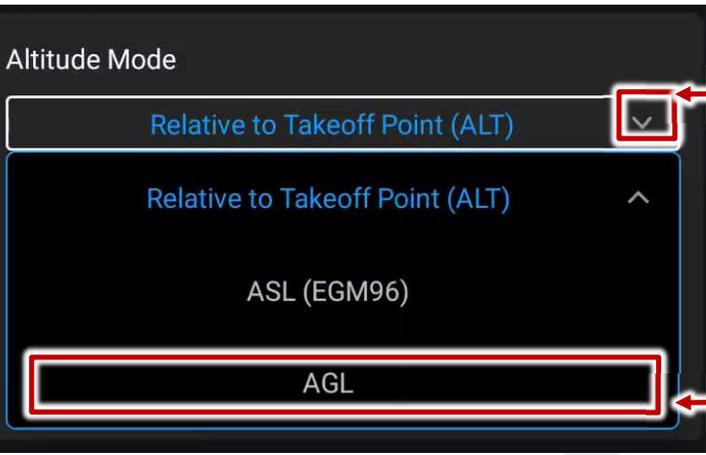


Camera Mode: S, Shutter Speed: 1/1000

Tap 'Upload Flight Mission' to start the flight.

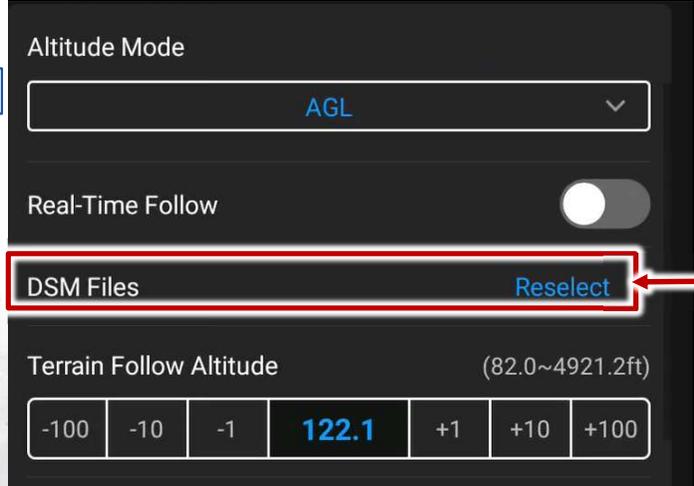
# Matrice 4E How to Use (DSM Terrain Following Flight)

## Change Altitude Mode



Tap to display the menu.

Switch to AGL



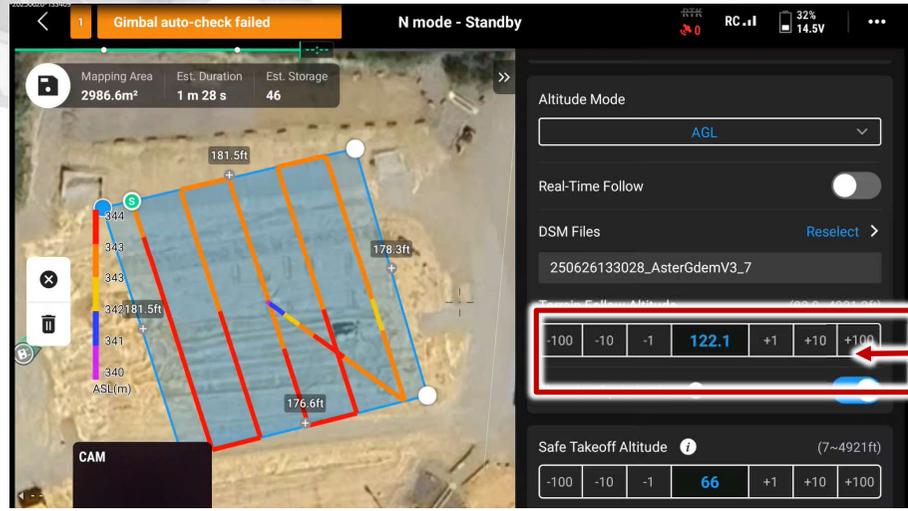
Select the DSM file.

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



Select 'Download from Internet'

Waiting for the download



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

Property	Value
Area	2986.6m <sup>2</sup>
GSD	1.01cm/px
Distance	1.16kft
Est. Duration	1 m 23 s
Photos	46

Custom Break Point

## Wi-Fi Setup: How to Connect to the

Swipe down from the top of the screen to reveal the menu.

Press and hold the Wi-Fi icon.

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 menu

Tap "Sensor Status"

Calibrate IMU

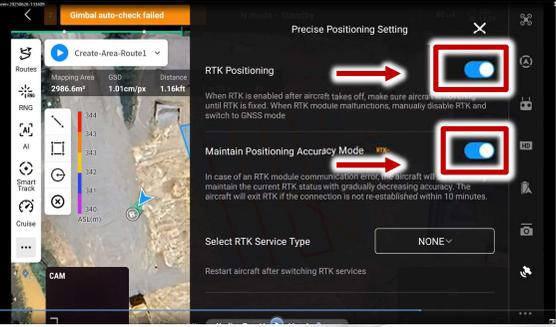
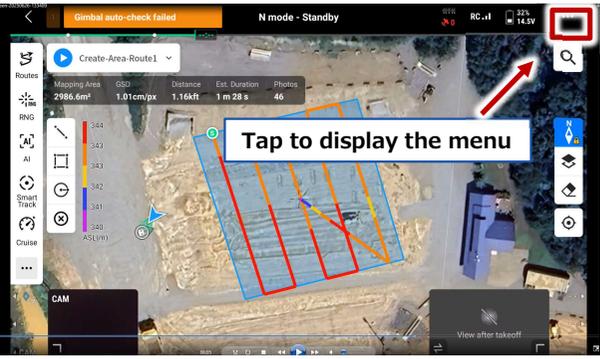
Check the status of the IMU. If the status is anything other than 'Excellent', tap 'Calibrate IMU'

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.

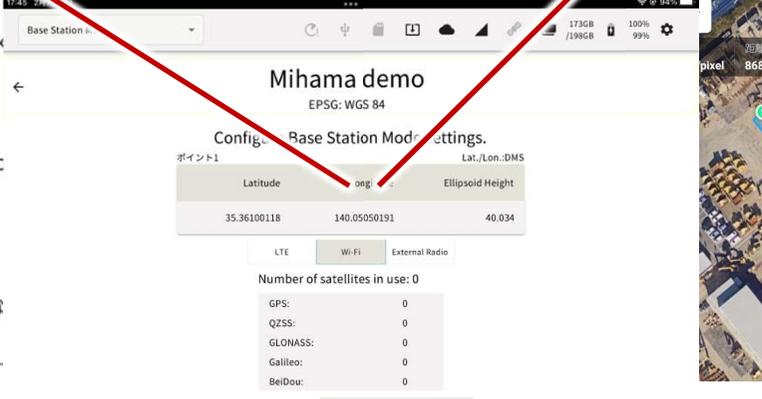
Once FIX is confirmed, RTK flight is ready.

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



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.

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