Edge Quick Manual -RTK Droneflight-

# NAME OF EACH PART OF Edge app top icon



11) Settings icon

Tap to open the Settings dialog.



int 1	0		ion Mode settin		Lat./Lon.:DI
					-64.205
		LTE W-	Fi External Radio		
	Number of sate	ellites in use: 10			
	GLONASS:				
	BeiDou:				
	Pole Height (up to	3 decimal places)	1 US surv	ey f 🔻	
	Measuring me the pole height				
		Start Broa			



- sending data to.
  - ③ Upload

9. Import Data to

Dashboard

(3)

DSM

rtical Accuracy Cher 3D accuracy check

4

Checkpoint csv file

Mihama demo

EPSG: WGS 84

Accuracy check and height adjust by importing

Point Cloud 2024-7-2

Project information

1/

If you can't see Dashboard Project, make sure you are logged in to Smart Construction under Setting tab.

🕐 🕂 🛋 🔺 🖋 🖿 🛄 👬 🔅 Test0714 EPSG: JGD2011 / Japan Plane Rectangular CS IX, Vertical Datum: JGD2011 (vertical) height Data Generation

- ③ Import from Smart Construction Edge2



Turn on "Interpolate" to fill the filtered hole





### DJI Marvic3 Enterprise setup

- 3. select the M3E Series.
- 4. select the M3E.
- 5. tap the OK button.



2. tap the mapping area after determine.





#### DJI Marvic3 Enterprise setup

1. The green line is the flight path.

This is automatically calculated based on the mapping area, GSD and photo wrap rate settings.

- 2. Change settings according to resolution
- 3. The altitude is automatically calculated according to the GSD.
- If you change the flight altitude, the GSD is automatically calculated.
- 4. Setting for oblique flight.
- Please switch ON for higher accuracy.
- 5. Maximum flight speed is not a problem. Higher speeds may cause the flight path to be rounded and the drone to shake more. If high accuracy is desired, the speed must be reduced.
- 6. The direction of the flight path can be changed.



- 7. Tap the Advanced setting.
- 8. Set up Side overap Ratio and Frontal Overlap Ratio. (recommend Side 80% Frontal 80%)
- 9. Set up to fly wider around the perimeter of the mapping area.
- 10. The Distance Interval Shot is recommended as it reduces the number of unnecessary photos.



DJI Marvic3 Enterprise setup

# RTK Setting to receive Edge RTK





1 Go to RTK setting on controller

- 2. Turn ON RTK Positioning
- 3. Turn ON Maintain Positioning Accuracy Mode

Register below RTK configuration

NTRIP Address: rtcmsv.smartconstruction.com Port: 2101 Account: Edge serial (ED2A1xxxx) Password: SC21 Mount Point: MSM4\_RAW



Confirm the connection RTK Status: **Green** Positioning: **FIX**  Shutter speed: 1/1000
Dewarping : OFF



\*Reference of Rover side setting to connect Edge RTK\*

Ntrip setting on "Rover side" to receive Edge Ntrip RTK

Host: rtcmsv.smartconstruction.com Port: 2101 ( If there was no "Port" input, please make the host

URL : rtcmsv.smartconstruction.com/2101) Mount: (See below Tips) Username: EdgeBox Serial Number (Example: EB2A100XXXX) Password: SC21

## Recommended Mount Point

Komatsu MC-R3 i-machine	RTCM30_BIAS
Komatsu MC-i 4 i-machine	MSM4_BIAS
3DMG	MSM4_RAW
Topcon	MSM4_BIAS
Hiper-V	RTCM30_BIAS
Hiper-HR	MSM4_BIAS
SC Rover	MSM4_RAW
Drone	MSM4_RAW