

DJI Mavic 3 Enterprise with RTK module

Optimal flight settings

Area Route

SmartConstruction

M3E Series

M3E

WIDE

Ortho Collection

Oblique Collection

Ortho GSD

cm/pixel

-1

-0.1

1.00

+0.1

+1

Altitude Mode

Relative to Takeoff Point (ALT)

Route Altitude

(12~1500m)

-100

-10

-1

37.0

+1

+10

+100

Elevation Optimization

Safe Takeoff Altitude

(2~1500m)

-100

-10

-1

37

+1

+10

+100

Speed

(0.1~11.2m/s)

-

+

8.5

Course Angle

(0~359°)

-

+

344

Upon Completion

Return To Home

Advanced Settings

Advanced Settings

Target Surface to Takeoff Point

(-200~1500m)

-100

-10

-1

0.0

+1

+10

+100

Side Overlap Ratio

(10~90%)

-100

-10

-1

60

+1

+10

+100

Frontal Overlap Ratio

(10~90%)

-100

-10

-1

80

+1

+10

+100

Margin

(0~100m)

-100

-10

-1

0

+1

+10

+100

Photo Mode

Timed Interval Shot

Custom Camera Angle

Route Start Point

Set

Takeoff Speed

(1~15m/s)

-

+

15

! Special attention

Area Route Name: When naming the area route, use only letters, numbers, underscores, and dashes to prevent file corruption.

Route Altitude: Setting the Ortho GSD to one will adjust the route altitude to 37 meters. If the site contains tall objects, measure their height using the drone and add an additional 10 meters for safety.

Elevation Optimization: Enabling this option is essential, so please ensure it is not overlooked.

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Mapping Checklist

2% 14.4V

RTK Not Connected

65%

26.09 G

42429 m	1 h 24 m 49 s	128	0.99 cm/pixel	5500 times
Distance	Estimated Time	Waypoints	Reconstruction GSD	Payload 1 Photos
Safe Takeoff Altitude	-100 -10 37 +10 +100	Save Photo	DJI Mavic 3E - WIDE	
Flight Route Complete Action	Return To Home	Signal Lost Action	Return To Home	
Create Folder	SmartConstruction	Camera Mode	Auto S A M	
Dewarping		Shutter	1/1000	
White Balance	Auto			

Back

Upload flight mission

! Special attention

Shutter: Because the job site is active (e.g., equipment is moving), set the shutter speed to 1/1000 to prevent motion blur. This will improve the quality of your ortho images and, consequently, the accuracy of the point clouds.

Dewarping: Ensure dewarping is turned off.