

Mavic 3 Enterprise Accuracy Report

2022/10/18

Test Site: DJI Burbank Office, 201 S Victory Blvd, Burbank, CA 91502

Test Unit: Mavic 3 Enterprise with RTK Module

Test Area: 8.9 Acres

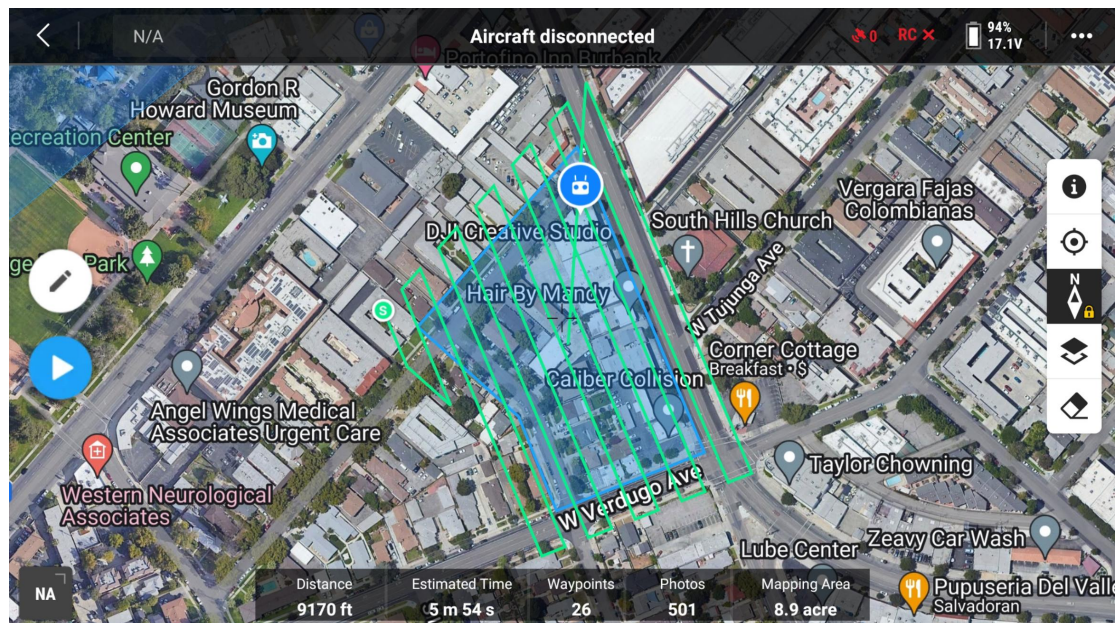
RTK: UNAVCO NTRIP RTK; Site [VDCY](#); Baseline 8.87km

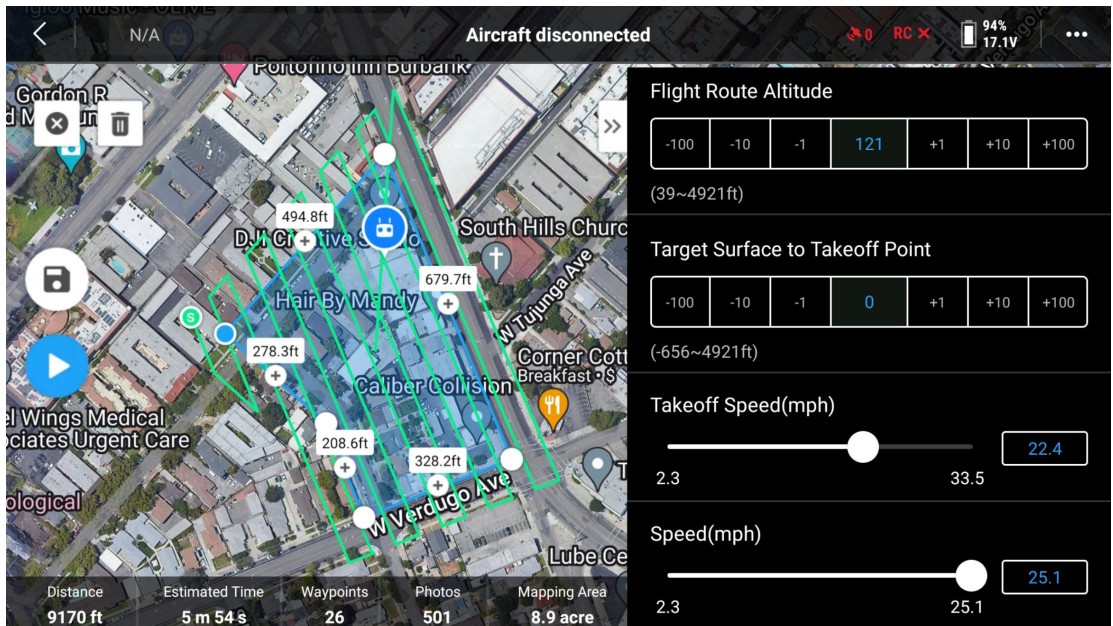
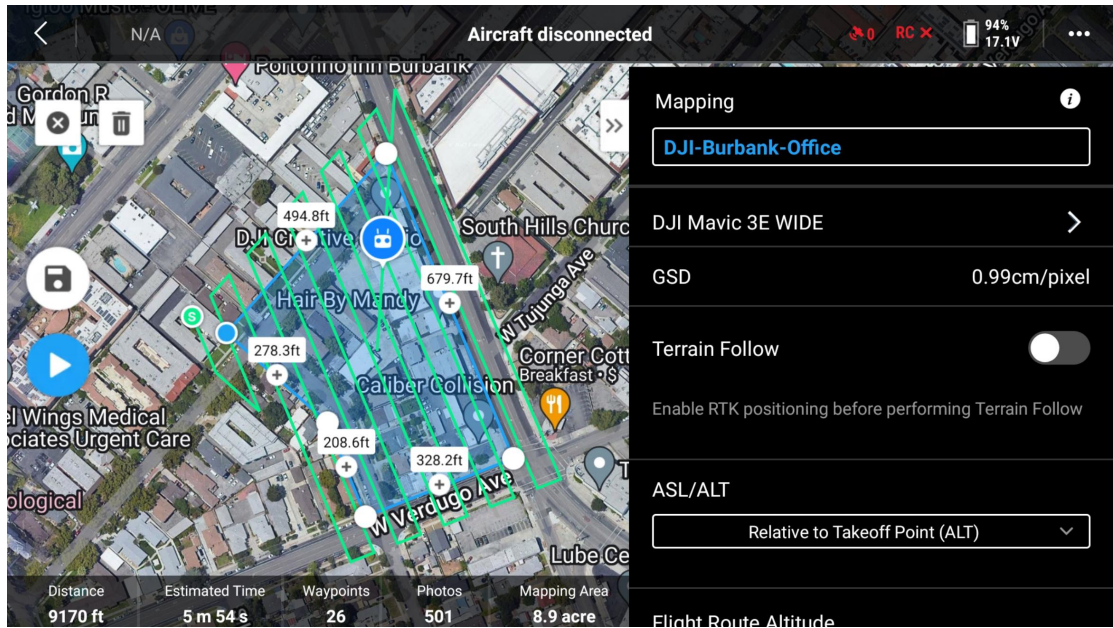
Drone Firmware: V05.00.0104

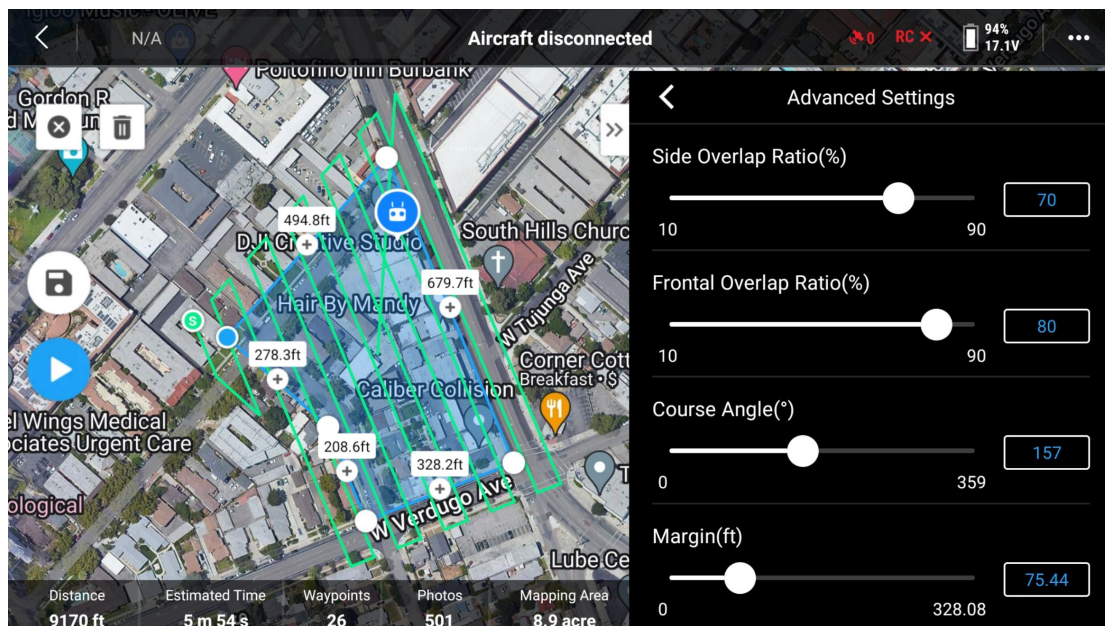
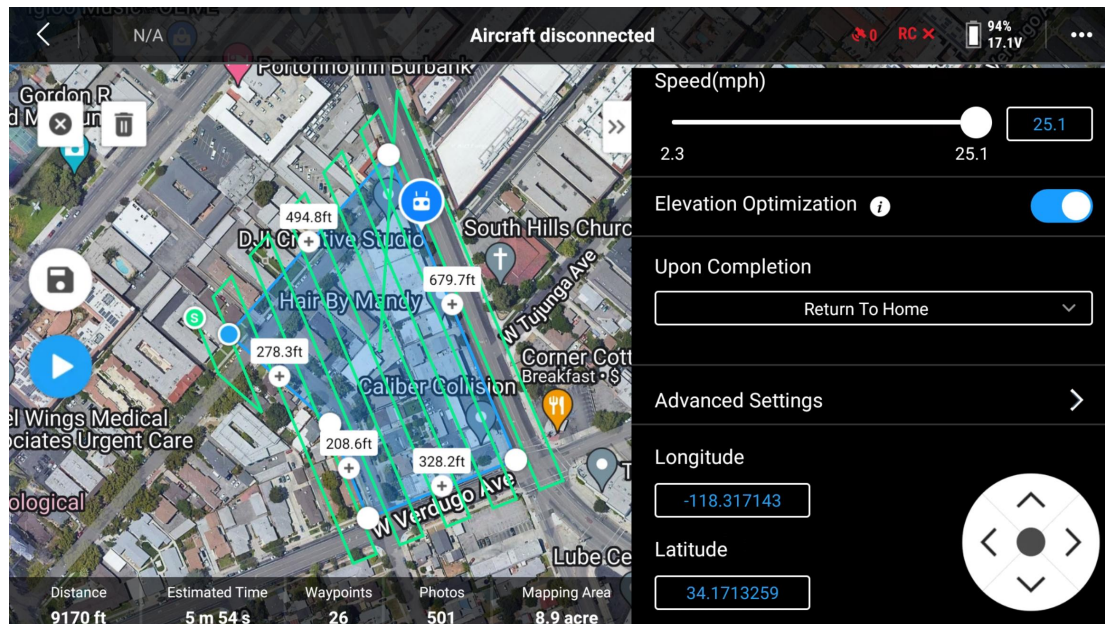
RC Firmware: 02.00.0047

Battery Firmware: 08.75.02.17

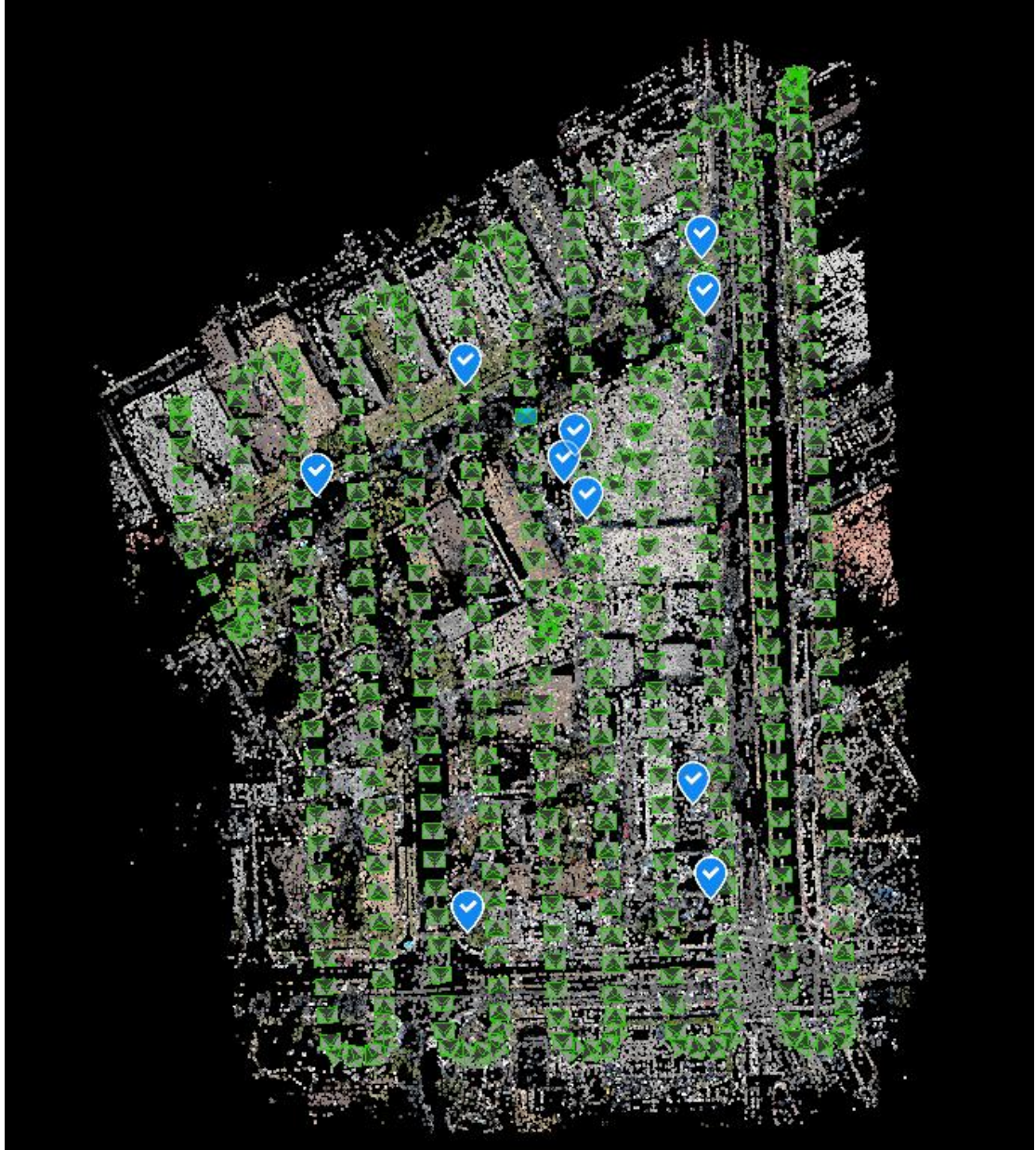
Flight Mission Settings:







Check Points:



Accuracy Report

DJI Terra Quality Report for Aerotriangulation

Parameters

Parameters	Value
Feature Point Density	High
Cluster Computation	No
Generate XML File	No

Image Information Overview

Item	Value
Number of Images	386
Image with Camera POS	386
Calibrated Image	386
Constrain with Image POS Data	Yes
Georeferencing RMSE	0.023 m
Connected Components	1
Max Components Images	386
Aerotriangulation Time	3.462min

Check Point

Name	dx (m)	dy (m)	dz (m)
Point 01	0.003342	0.002391	0.034731
Point 02	-0.007388	0.025609	0.002535
Point 03	-0.014753	-0.004967	-0.008173
Point 04	-0.007963	0.022630	0.052551
Point 05	-0.001264	0.031151	0.016034
Point 06	0.009689	0.000405	0.024197
Point 07	-0.005805	-0.000497	-0.002781
Point 08	-0.033088	-0.004452	0.032457
Point 09	-0.007137	0.020741	0.013106
Point 10	-0.008173	-0.006599	-0.028939

Check Point RMSE

dx (m)	dy (m)	dz (m)
0.012994	0.016318	0.026371

RTK Status

Status	Number of Images
Fix	386
Floating	0
Single	0
Other	0

Camera Calibration Information

Camera Model M3E_WideCamera

Camera SN 1581F5FHB227X00100AB

Item	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Initial	3711.99	2646.26	1956.30	-0.11185215	0.01266910	-0.02560343	-0.00002902	0.00000642

Block0

Item	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Optimized	3711.99	2646.26	1956.30	-0.11185306	0.01267115	-0.02560474	-0.00002903	0.00000646

Covariance Matrix

	Error	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Focal Length	0.07296179	1.00000000	0.04265233	-0.14164733	-0.25203409	0.17934918	-0.20536664	0.08371598	-0.02370701
Cx	0.03353501	0.04265233	1.00000000	-0.00827310	-0.01471127	0.01008048	-0.01184188	-0.00741836	0.27217584
Cy	0.03145432	-0.14164733	-0.00827310	1.00000000	0.00406564	0.00789905	-0.00522743	0.18018424	-0.00448244
K1	0.00003753	-0.25203409	-0.01471127	0.00406564	1.00000000	-0.96350271	0.90864775	-0.02643843	-0.02521026
K2	0.00009294	0.17934918	0.01008048	0.00789905	-0.96350271	1.00000000	-0.98258582	0.01043552	0.02780421
K3	0.00006804	-0.20536664	-0.01184188	-0.00522743	0.90864775	-0.98258582	1.00000000	-0.01527083	-0.02661158
P1	0.00000158	0.08371598	-0.00741836	0.18018424	-0.02643843	0.01043552	-0.01527083	1.00000000	-0.01173433
P2	0.00000163	-0.02370701	0.27217584	-0.00448244	-0.02521026	0.02780421	-0.02661158	-0.01173433	1.00000000

Hardware Information Overview

- CPU: Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz
- GPU Count: 1
- GPU0: NVIDIA GeForce GTX 1060 with Max-Q Design
- RAM: 16284 M