



DJI Terra Quality Report

V5.1.1 | 2026-02-27 14:40 | Mission: Mather test 2d

Overview

📷 Proportion of Calibrated Images



Number of Images	504
Image with Camera POS	504
Calibrated Image	504
Constrain with Image POS Data	Yes

🕒 Total Consumption Time



Aerotriangulation	3min 36s
2D Reconstruction	10min 44s
3D Reconstruction	29min 2s

Mission Parameters

📏 Flight Parameters

Average Flight Altitude	33.01 m
GSD	0.915 cm/px
TDOM Mapping Coverage	0.057452 km ²
Color	3 bands, uint8

🖥️ Hardware Information Overview

CPU	Intel Core(TM) i7-10700 CPU @ 2.90GHz 16 cores
GPU Count	1
GPU 0	NVIDIA GeForce RTX 4070 SUPER
RAM	32706 M

Aerotriangulation

📏 Reconstruction Accuracy

Connected Components	1
Max Components Images	504
Projections	1684705
Tie Point	153601
Reprojection Error RMS	0.768 px
Georeferencing RMSE	0.022 m

📏 Reconstruction Parameters

Computation Method	Standalone Computation
Feature Point Density	High
Generate XML File	Yes

RTK Status

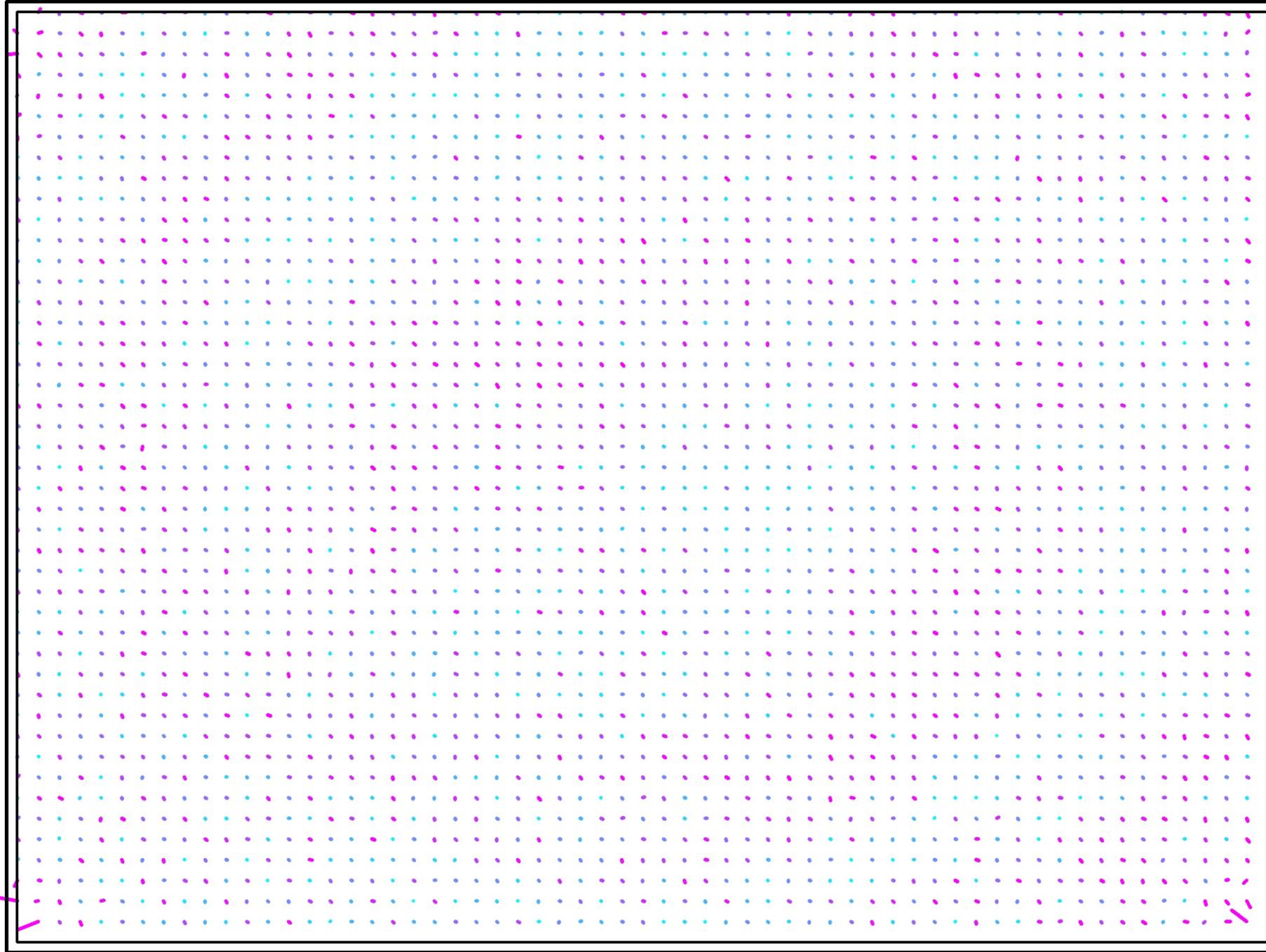
Status	Number of Images
Fix	504
Floating	0
Single	0
Other	0

RTK Positioning Accuracy

RTK Positioning Accuracy	Horizontal standard deviation	Elevation standard deviation
Maximum	0.384 cm	0.527 cm
Avg Value	0.367 cm	0.503 cm
Minimum	0.362 cm	0.493 cm

Camera Calibration Info (Camera 0)

 Image Residuals for Camera



1 pix

Camera Info

Camera Model	M4E_WideCamera
Camera SN	1581F7FVC25BG00D8CWF
Camera Type	Standard
Fix Camera Parameters	Not Fix

Photo Resolution	5280*3956
Pre-calibration	Yes
Number of Photos	433

Camera Parameters (Block 0)

Camera Intrinsic

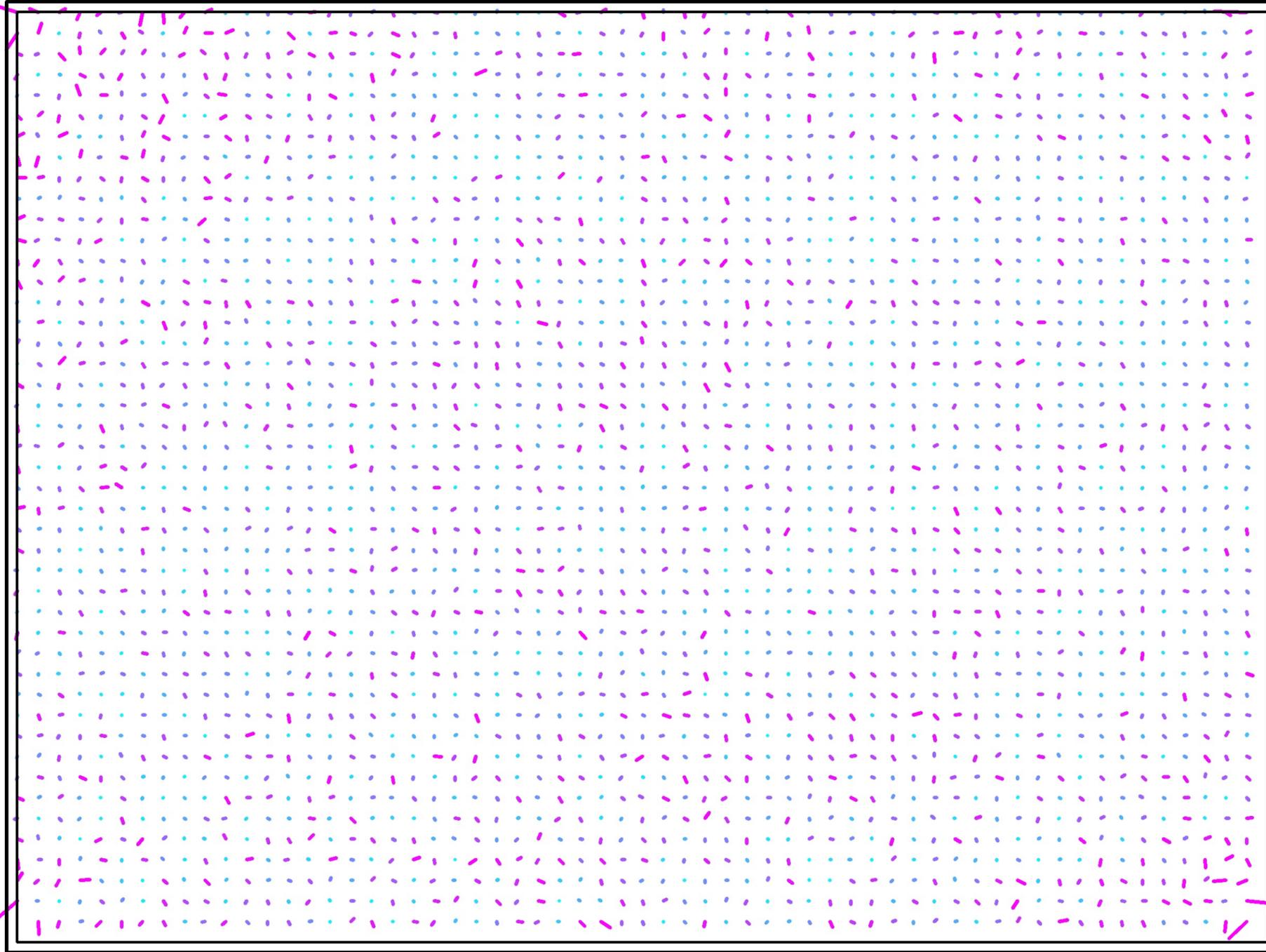
Parameters	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Initial	3708.594	2666.158	1943.554	-0.111706214	0.007209531	-0.019092309	-0.000158844	-0.000004857
Optimized	3707.557	2667.399	1945.396	-0.105548107	-0.001692152	-0.017275868	-0.000382368	0.00018313
Difference Value	-1.037	1.241	1.842	0.006158107	-0.008901683	0.001816441	-0.000223524	0.000187987

Covariance Matrix

	Error	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Focal Length	0.067	1	0.054	-0.396	-0.242	0.122	-0.155	0.324	-0.034
Cx	0.032	0.054	1	-0.016	0.016	-0.024	0.025	0.02	-0.228
Cy	0.038	-0.396	-0.016	1	0.053	0.009	0.003	-0.533	0
K1	0.000026752	-0.242	0.016	0.053	1	-0.958	0.906	-0.063	0.019
K2	0.000066638	0.122	-0.024	0.009	-0.958	1	-0.983	0.005	-0.014
K3	0.000049392	-0.155	0.025	0.003	0.906	-0.983	1	-0.018	0.018
P1	0.0000015	0.324	0.02	-0.533	-0.063	0.005	-0.018	1	-0.006
P2	0.000001373	-0.034	-0.228	0	0.019	-0.014	0.018	-0.006	1

Camera Calibration Info (Camera 1)

Image Residuals for Camera



1 pix

Camera Info

Camera Model	M4E_WideCamera
Camera SN	1581F7FVC25BG00D8CWF
Camera Type	Standard
Fix Camera Parameters	Not Fix

Photo Resolution	5280*3956
Pre-calibration	Yes
Number of Photos	71

Camera Parameters (Block 0)

Camera Intrinsic

Parameters	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Initial	3707.834	2666.158	1943.554	-0.111706214	0.007209531	-0.019092309	-0.000158844	-0.000004857
Optimized	3705.064	2667.929	1946.392	-0.105770339	-0.000322049	-0.018255881	-0.000395818	0.000184795
Difference Value	-2.77	1.772	2.838	0.005935875	-0.00753158	0.000836428	-0.000236973	0.000189652

Covariance Matrix

	Error	Focal Length	Cx	Cy	K1	K2	K3	P1	P2
Focal Length	0.19	1	0.054	-0.036	-0.213	0.056	-0.097	0.021	-0.046
Cx	0.103	0.054	1	-0.014	0.008	-0.029	0.03	0.005	-0.494
Cy	0.102	-0.036	-0.014	1	0	0.012	-0.014	-0.484	0.01
K1	0.00006776	-0.213	0.008	0	1	-0.949	0.894	-0.004	0.016
K2	0.000167691	0.056	-0.029	0.012	-0.949	1	-0.981	-0.001	-0.007
K3	0.000123013	-0.097	0.03	-0.014	0.894	-0.981	1	-0.001	0.011
P1	0.000004108	0.021	0.005	-0.484	-0.004	-0.001	-0.001	1	0
P2	0.000004243	-0.046	-0.494	0.01	0.016	-0.007	0.011	0	1

Other Info

Camera POS residuals are generated in the Report folder under the project file, and the default name of the file is "POS_residual_of_camera.csv".

2D Reconstruction

2D Reconstruction Consumption Time



Image Distortion Correction and Color Correction **1min 19s**

Densification **2min 36s**

Reconstruction Parameters

Scenario	Mapping
Computation Method	Standalone Computation
Resolution	Resolution (Auto) High

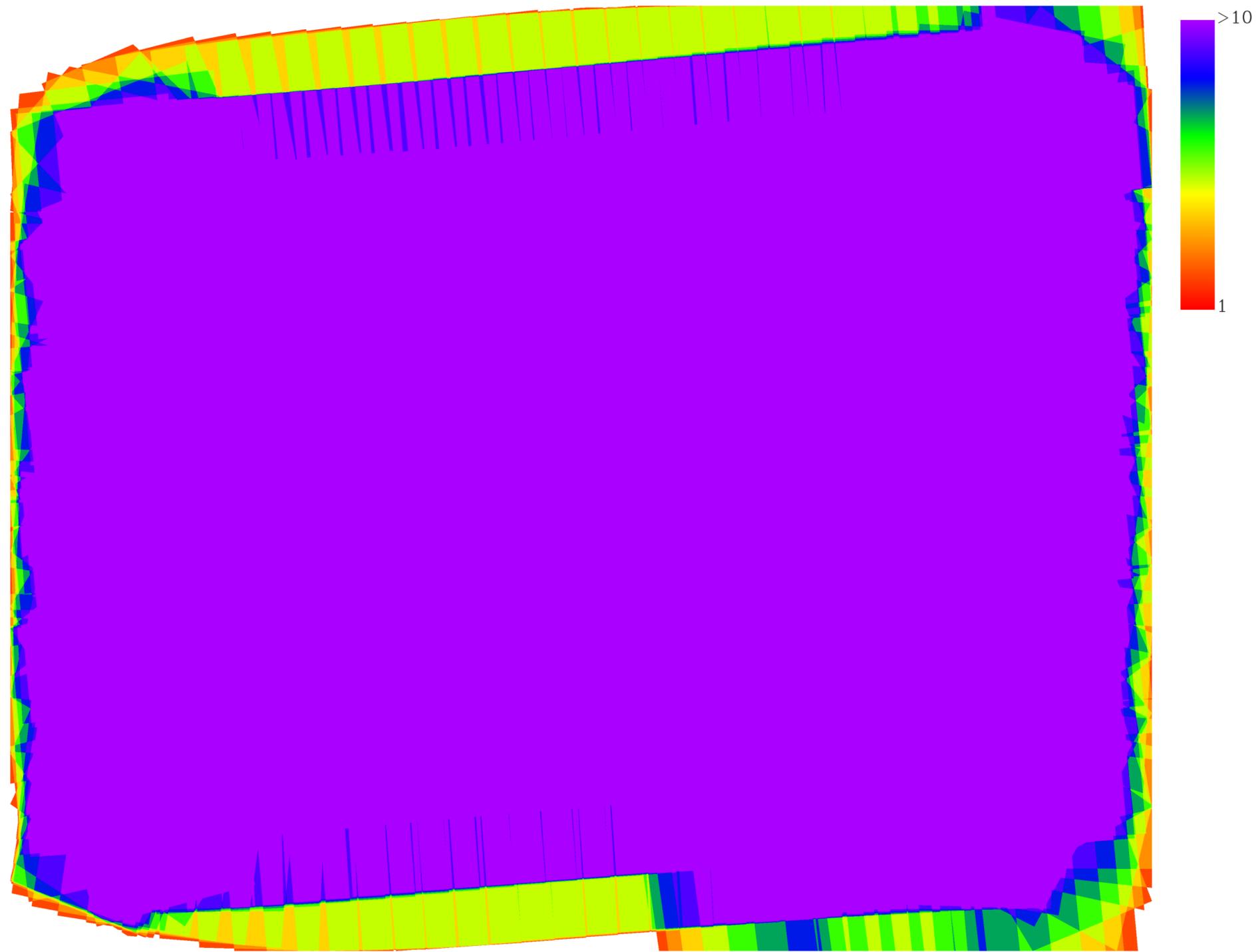


Image Info

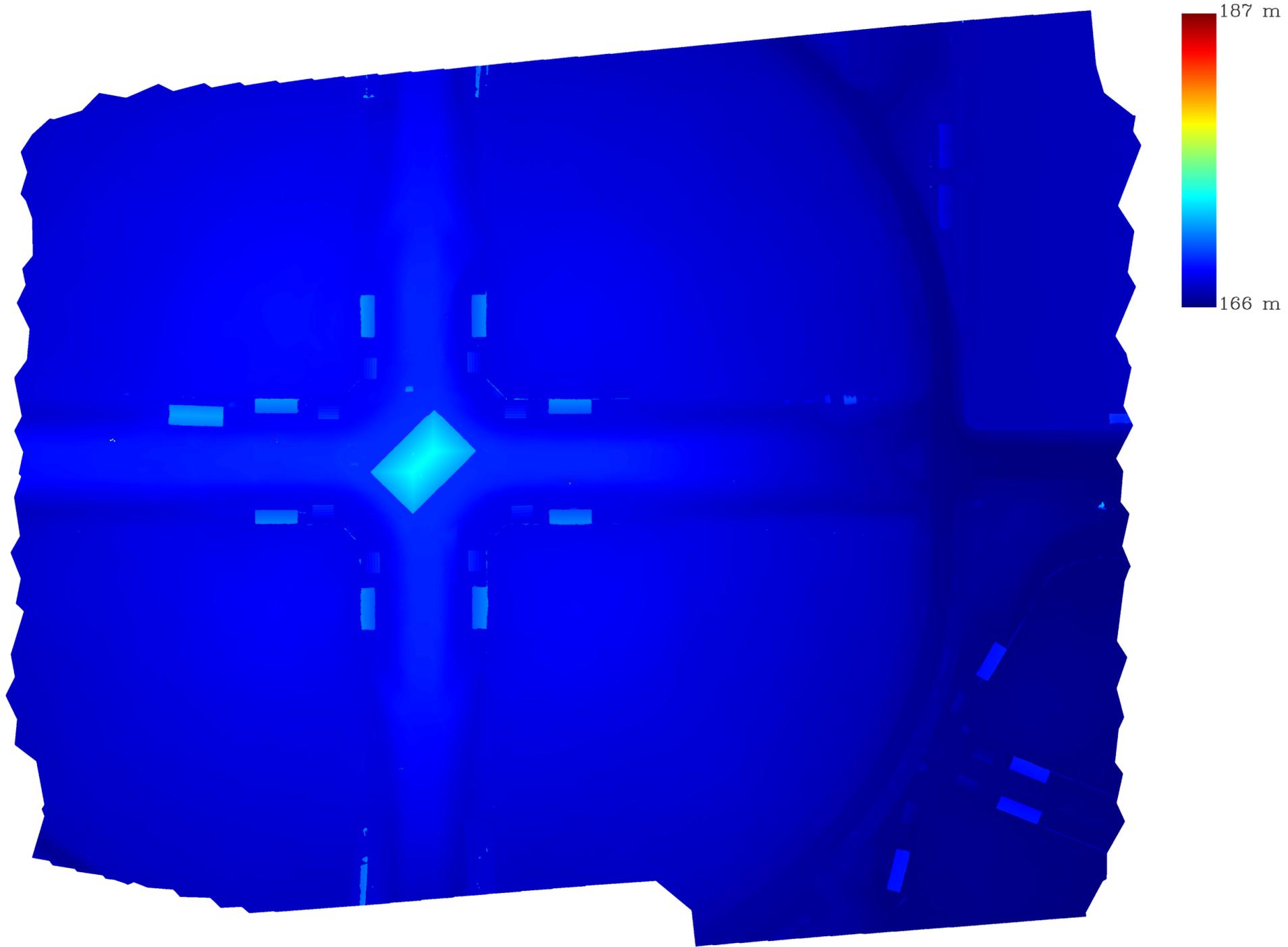
 TDOM Preview



Scene Overlapping



DSM Preview



3D Reconstruction

3D Reconstruction Consumption Time



Preprocessing Time	27min 5s
Point Cloud Generation Time	28s
Others	1min 29s

Block Overview

MVS Divide Mode	Auto (Performance-based)
MVS Block Count	2

☰ Reconstruction Parameters

Scenario	Normal
Computation Method	Standalone Computation
Quality	High
Refine Water Surface	No
Reduce Model to	50%
Point Cloud	Yes
Point Cloud Parameters	Medium(25%)
Gaussian Splatting	No
Ground Point Classification	No
DEM	No
Contour	No
Grid of Points & TIN	No

📄 Output List

Aerotriangulation XML

Point Cloud PNTS LAS