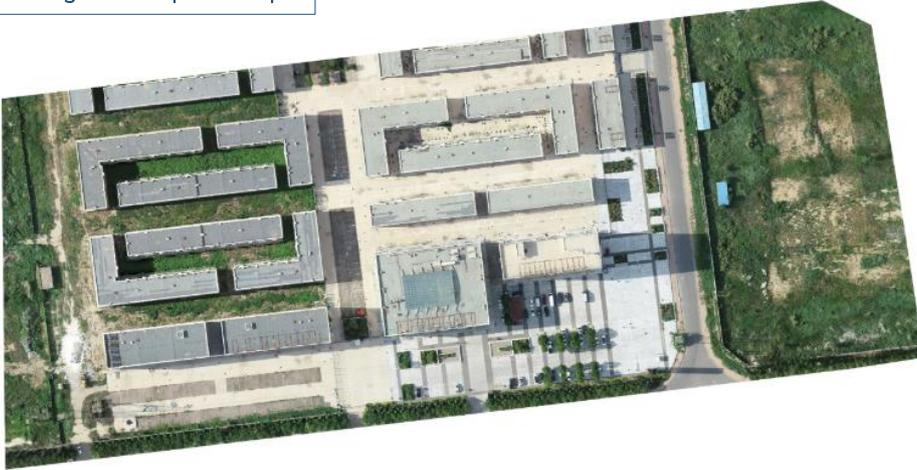


# HOW TO READ A DJI TERRA QUALITY REPORT FOR 2D MAPS

## DJI Terra Quality Report

### TDOM Preview

True Digital Orthophoto Map



### Map Information Overview

Item	Value
Input Images	114
Calibrated Images	114
Origin Image GSD	0.026 m
TDOM GSD	0.025 m
Coverage Area	0.070518 sq km
Georeferencing RMSE	0.025986 m
Average Flight Altitude	94.652 m

### Map Information Overview

1. Input Images: the number of images which have been captured and input into the software for reconstruction.
2. Calibrated Images: the number of images reconstructed
3. Original Image GSD: the distance between adjacent pixel centers in the original image measured on the ground in meters
4. TDOM GSD: the distance between adjacent pixel centers in TDOM measured on the ground in meters
5. Coverage Area: coverage area in square kilometers
6. Georeferencing RMSE: the root mean square error between solved and original georeferencing coordinates of images in meters
7. Average Flight Altitude: the aircraft's flight height relative to the ground of the surveying area in meters

### RTK Status

Status	Number of Images
FIX	114
FLOAT	0
SINGLE	0
NONE	0

### RTK Status:

1. FIX: fix solution, where positioning is within centimeter accuracy
2. FLOAT: float solution, where positioning is within decimeter accuracy
3. SINGLE: single solution, where positioning is within meter accuracy
4. NONE: not using RTK

### Performance Overview

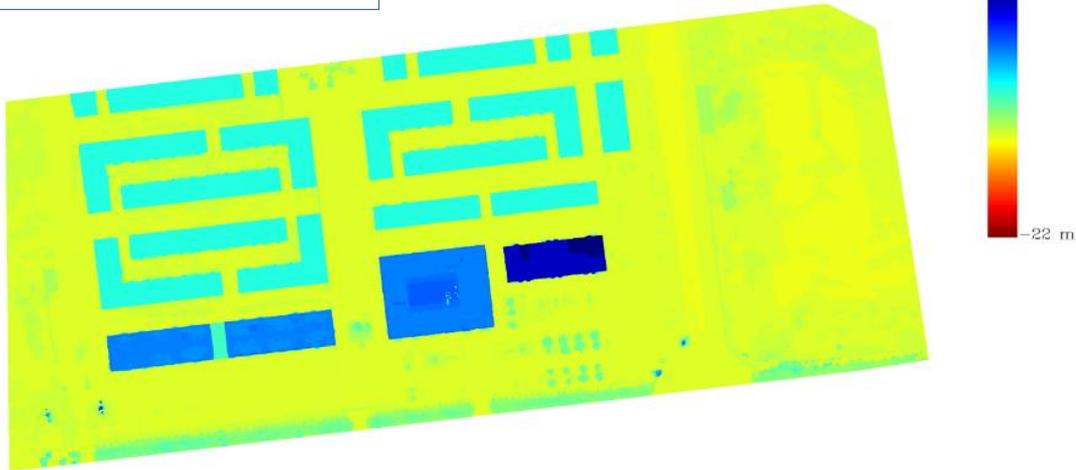
Processing Time (in minutes)

Pipeline	time cost (min)
SFM	2.114
Points Cloud Generate	0.633
TDOM Generate	8.217

1. SFM: running time of structure from motion
2. Point Cloud Generate: running time of point cloud generation
3. TDOM Generate: running time of TDOM generation

### DSM Preview

Digital Surface Model Preview



### Camera Calibration Information

#### Camera Internal Parameters

Camera Model FC6310R

Item	Focal	Cx	Cy	K1	K2	K3	P1	P2
Initial	3669.19	2429.76	1872.36	-0.26753600	0.11099200	-0.03293860	-0.00023852	-0.00022180
Optimized	3670.67	2422.28	1870.44	-0.26960275	0.11237525	-0.03314960	-0.00020766	-0.00006694

1. Camera Model: FC6310
2. Initial: internal camera parameters
3. Optimized: optimized internal camera parameters
4. Focal: focal length of camera in pixel
5. Cx, Cy: principal point coordinates of photograph in pixel
6. K1, K2, K3, P1, P2: camera distortion parameters

### Process Information

PC Information: CPU/GPU/RAM

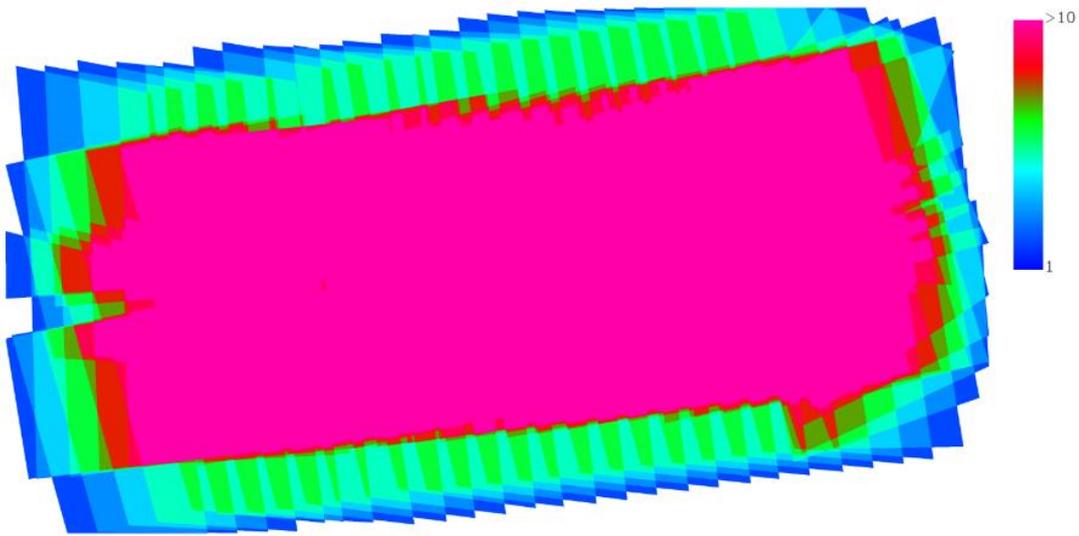
#### System Information

- CPU: Intel(R) Xeon(R) CPU E5-2690 v4 @ 2.60GHz
- GPU: GeForce GTX 1080 Ti
- RAM: 130993 M

Process Parameters	Value
Map Mode	Urban
Quality Level	High
Coordinate Correct	Yes

1. Mapping Scenarios: Choose among three mapping scenarios: Urban, Field, and Fruit Tree
2. Quality Level: image resolution for reconstruction  
High: original image resolution  
Medium: 1/2 of original image resolution  
Low: 1/4 of original image resolution
3. Coordinate Correction: coordinates of mapping result have / have not been corrected

### Scene Overlap Analyze



Scene Overlap Coverage: the number of images covering different areas of the scene. Different color corresponding with different number of images.