# **Agisoft Metashape**

正在处理报告 24 February 2025



### **Survey Data**

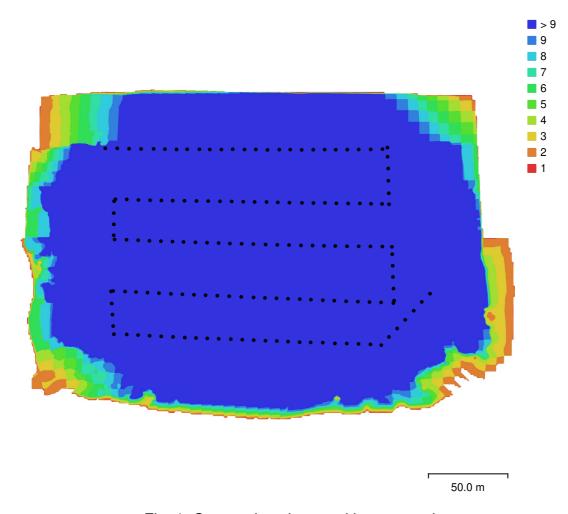


Fig. 1. Camera locations and image overlap.

Number of images: 148 Camera stations: 148 98.3 m Flying altitude: Tie points: 45,620 Ground resolution: 2.31 cm/pix Projections: 414,428 0.0574 km<sup>2</sup> Reprojection error: 1.66 pix Coverage area:

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
Test_Pro (10.26mm)	5472 x 3648	10.26 mm	2.41 x 2.41 µm	No

Table 1. Cameras.

### **Camera Calibration**

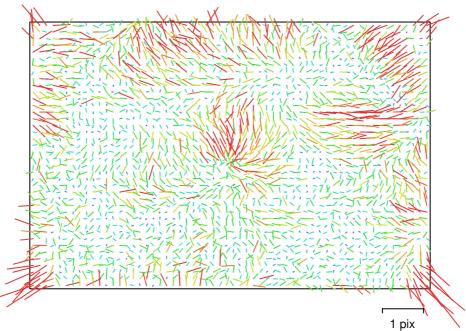


Fig. 2. Image residuals for Test\_Pro (10.26mm).

#### Test\_Pro (10.26mm)

148 images

Туре	Resolution	Focal Length	Pixel Size
Frame	5472 x 3648	10.26 mm	2.41 x 2.41 μm

	Value	Error	K1	K2	P1	P2
F	4256					
K1	0.0236861	0.00018	1.00	-0.07	0.18	-0.14
K2	-0.000220505	6.2e-05		1.00	0.05	-0.08
P1	0.00911284	7.3e-05			1.00	0.00
P2	0.00594295	9.1e-05				1.00

Table 2. Calibration coefficients and correlation matrix.

### **Camera Locations**

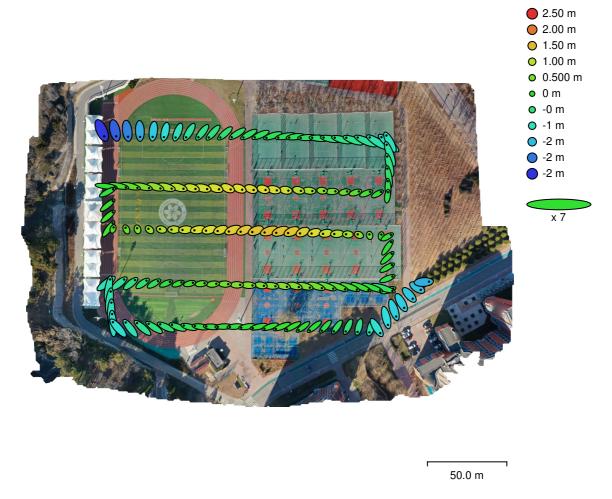


Fig. 3. Camera locations and error estimates.

Z error is represented by ellipse color. X,Y errors are represented by ellipse shape. Estimated camera locations are marked with a black dot.

X error (m)	Y error (m)	Z error (m)	XY error (m)	Total error (m)
0.799852	0.648076	0.835098	1.02945	1.32558

Table 3. Average camera location error.

X - Longitude, Y - Latitude, Z - Altitude.

# **Digital Elevation Model**

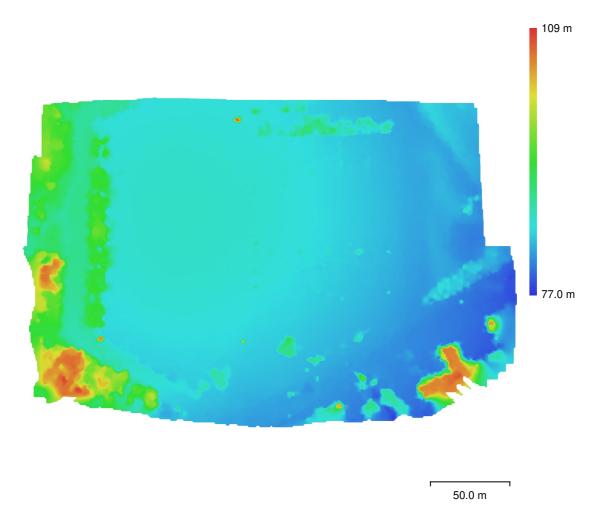


Fig. 4. Reconstructed digital elevation model.

Resolution: 100 cm/pix

Point density: 1.00 points/m<sup>2</sup>

## **Processing Parameters**

General			
Images	148		
Aligned images	148		
Coordinate system	WGS 84 (EPSG::4326)		
Rotation angles	Yaw, Pitch, Roll		
Tie Points			
Points	45,620 of 64,867		
RMS reprojection error	0.208735 (1.66188 pix)		
Max reprojection error	0.639583 (72.3172 pix)		
Mean key point size	7.57987 pix		
Point colors	3 bands, uint8		
Key points	No		
Average tie point multiplicity	9.7621		
Alignment parameters			
Accuracy	Medium		
Generic preselection	Yes		
Reference preselection	Source		
Key point limit	40,000		
Key point limit per Mpx	1,000		
Tie point limit	4,000		
Exclude stationary tie points	Yes		
Guided image matching	Yes		
Adaptive camera model fitting	Yes		
Matching time	38 seconds		
Matching memory usage	388.03 MB		
Alignment time	2 minutes 49 seconds		
Alignment memory usage	230.32 MB		
Date created	2025:02:24 15:29:18		
Software version	2.1.3.18946		
File size	10.91 MB		
DEM			
Size	323 x 226		
Resolution	100 cm/pix		
Coordinate system	WGS 84 (EPSG::4326)		
Reconstruction parameters			
Source data	Tie points		
Interpolation	Enabled		
Processing time	0 seconds		
Memory usage	2.25 MB		
Date created	2025:02:24 15:32:25		
Software version	2.1.3.18946		
File size	283.78 KB		
Orthomosaic			
Size	3,109 x 2,079		
Resolution	10.0 cm/pix		
Coordinate system	WGS 84 (EPSG::4326)		
Colors	3 bands, uint8		
Orthophotos	66.85 MB		
Reconstruction parameters			

Blending mode

Mosaic

Surface
Enable hole filling
Enable ghosting filter
Processing time

Memory usage
Date created

Software version File size

System

Software name Software version

OS RAM

CPU GPU(s) DEM Yes No

> 16 seconds 397.22 MB

2025:02:24 15:32:52

2.1.3.18946 72.92 MB

Agisoft Metashape Professional

2.1.3 build 18946 Linux 64 bit 62.51 GB

Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz

NVIDIA GeForce GTX 1070