

Agisoft Metashape

正在处理报告

24 February 2025



Survey Data

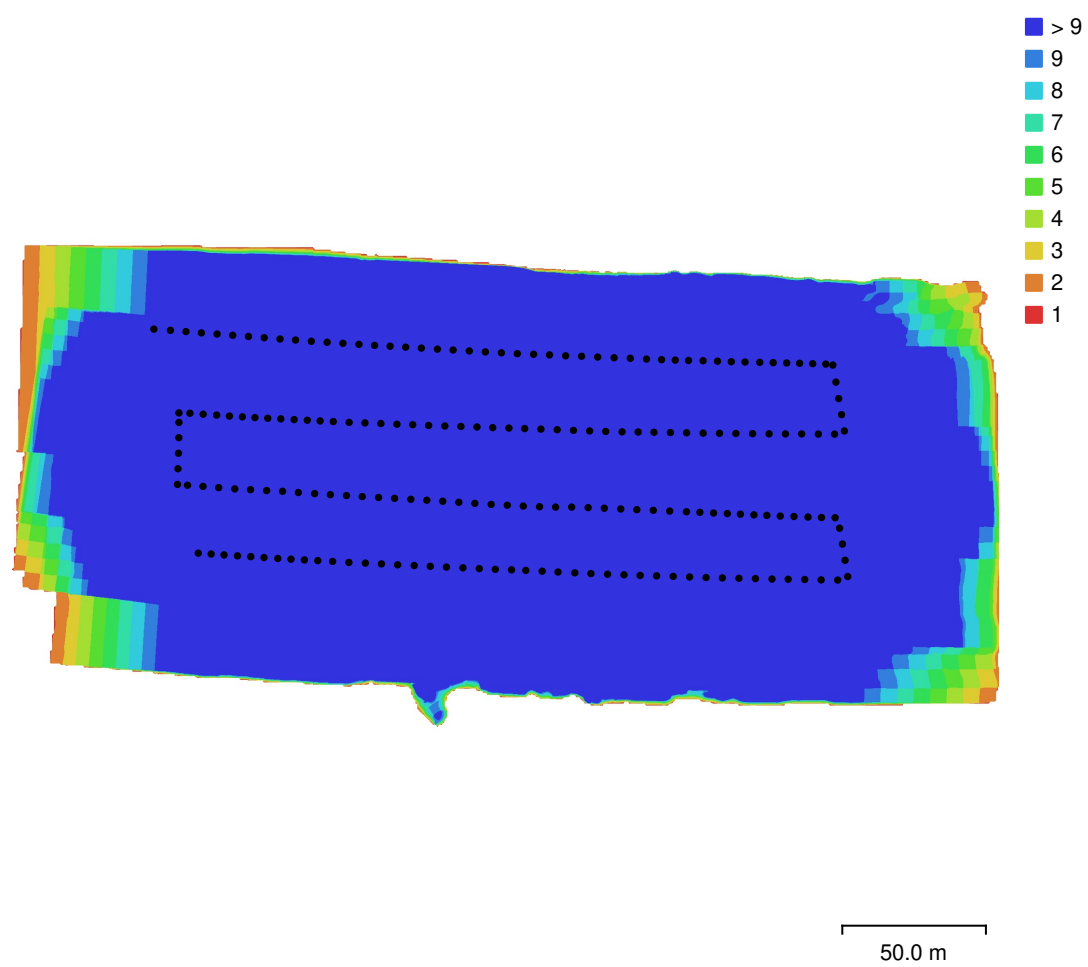


Fig. 1. Camera locations and image overlap.

Number of images:	188	Camera stations:	188
Flying altitude:	89.2 m	Tie points:	58,469
Ground resolution:	2.10 cm/pix	Projections:	490,260
Coverage area:	0.0504 km²	Reprojection error:	1.46 pix

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

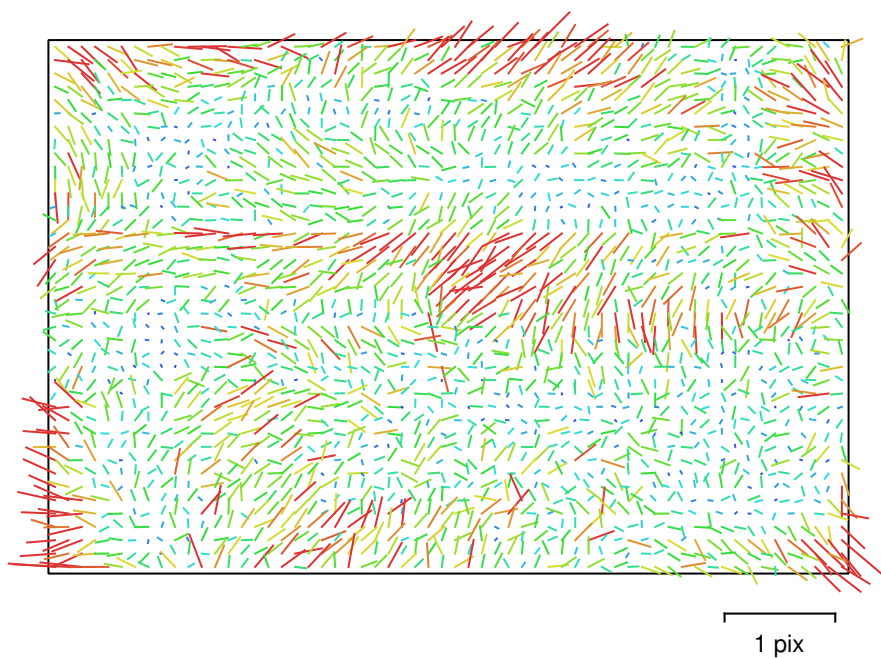


Fig. 2. Image residuals for Test_Pro (10.26mm).

Test_Pro (10.26mm)

188 images

Type	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	0.0237665	0.00016	1.00	-0.09	-0.18	-0.13
K2	-0.002213	4.3e-05		1.00	-0.10	-0.09
P1	0.0102122	6.6e-05			1.00	0.16
P2	0.00818299	8e-05				1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Locations

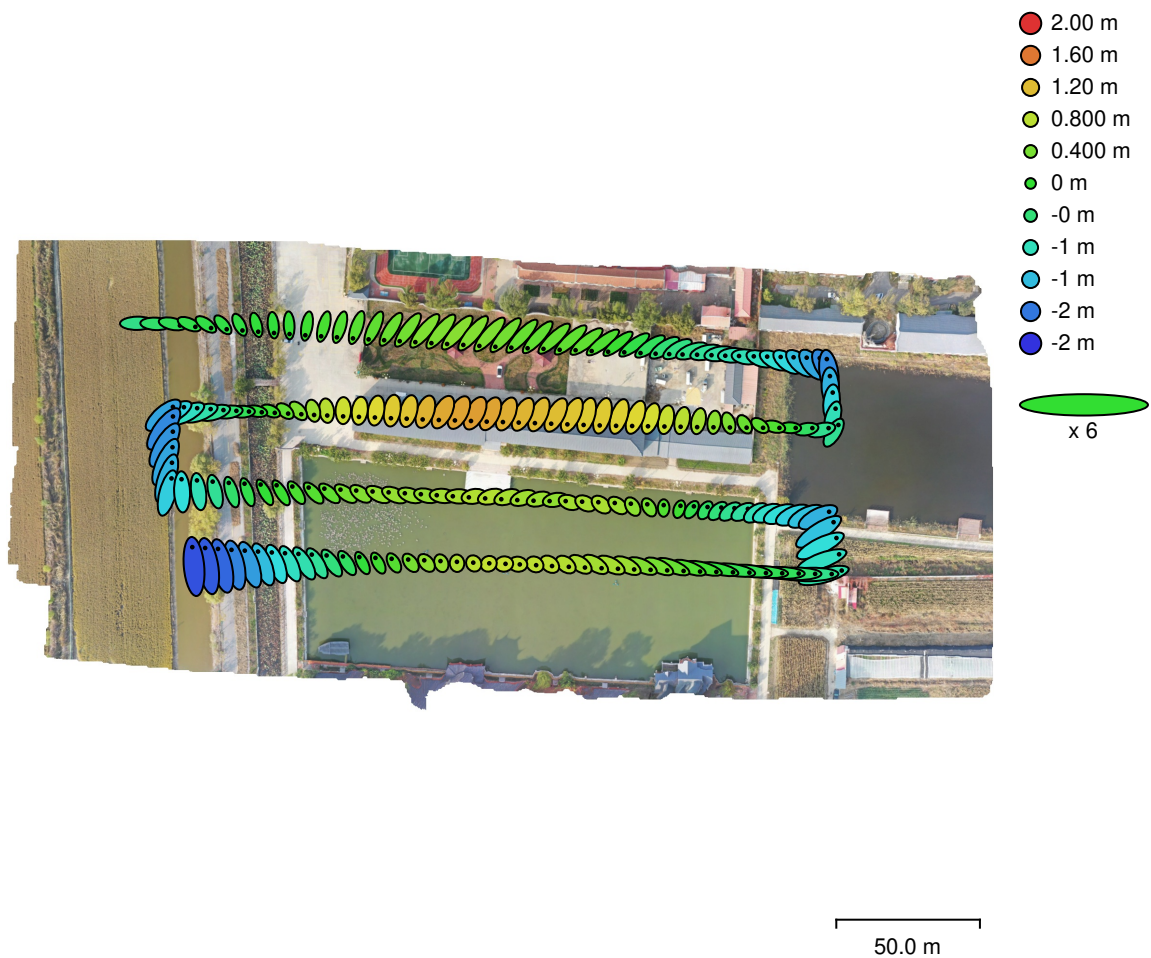


Fig. 3. Camera locations and error estimates.

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)
0.823504	0.836931	0.767525	1.17414	1.40275

Table 3. Average camera location error.

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

Digital Elevation Model

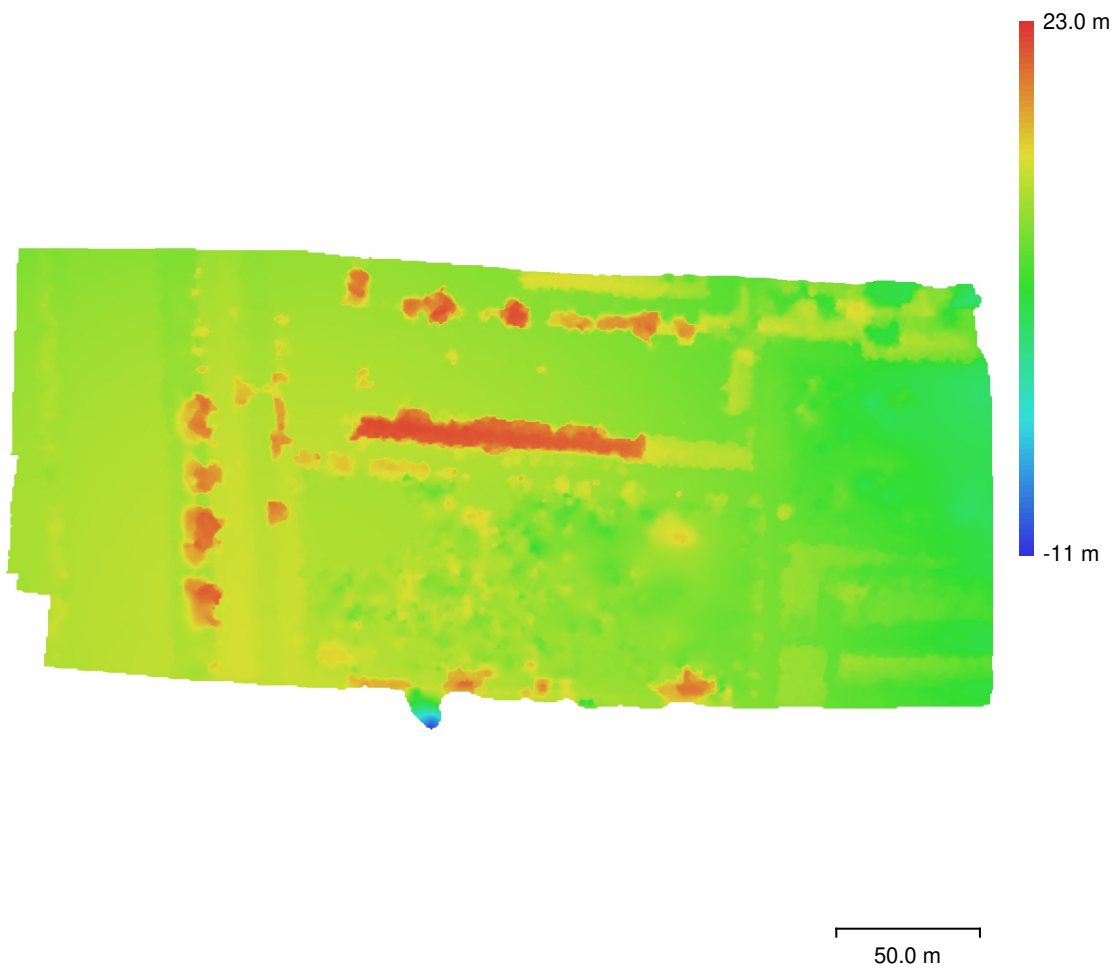


Fig. 4. Reconstructed digital elevation model.

Resolution: 73.4 cm/pix
Point density: 1.85 points/m²

Processing Parameters

General

Images	188
Aligned images	188
Coordinate system	WGS 84 (EPSG::4326)
Rotation angles	Yaw, Pitch, Roll

Tie Points

Points	58,469 of 82,437
RMS reprojection error	0.169867 (1.45837 pix)
Max reprojection error	0.52623 (57.3869 pix)
Mean key point size	7.00138 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	9.54246

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	47 seconds
Matching memory usage	216.10 MB
Alignment time	3 minutes 29 seconds
Alignment memory usage	444.59 MB
Date created	2025:02:24 15:16:50
Software version	2.1.3.18946
File size	37.58 MB

DEM

Size	499 x 264
Resolution	73.4 cm/pix
Coordinate system	WGS 84 (EPSG::4326)

Reconstruction parameters

Source data	Tie points
Interpolation	Enabled
Processing time	0 seconds
Memory usage	0 B
Date created	2025:02:24 15:20:34
Software version	2.1.3.18946
File size	510.80 KB

Orthomosaic

Size	3,436 x 1,674
Resolution	10.0 cm/pix
Coordinate system	WGS 84 (EPSG::4326)
Colors	3 bands, uint8
Orthophotos	68.51 MB

Reconstruction parameters

Blending mode	Mosaic
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Surface
Enable hole filling
Enable ghosting filter
Processing time
Memory usage
Date created
Software version
File size

DEM
Yes
No
20 seconds
347.17 MB
2025:02:24 15:21:01
2.1.3.18946
73.45 MB

System

Software name
Software version
OS
RAM
CPU
GPU(s)

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