

Agisoft Metashape

正在处理报告

24 February 2025



Survey Data

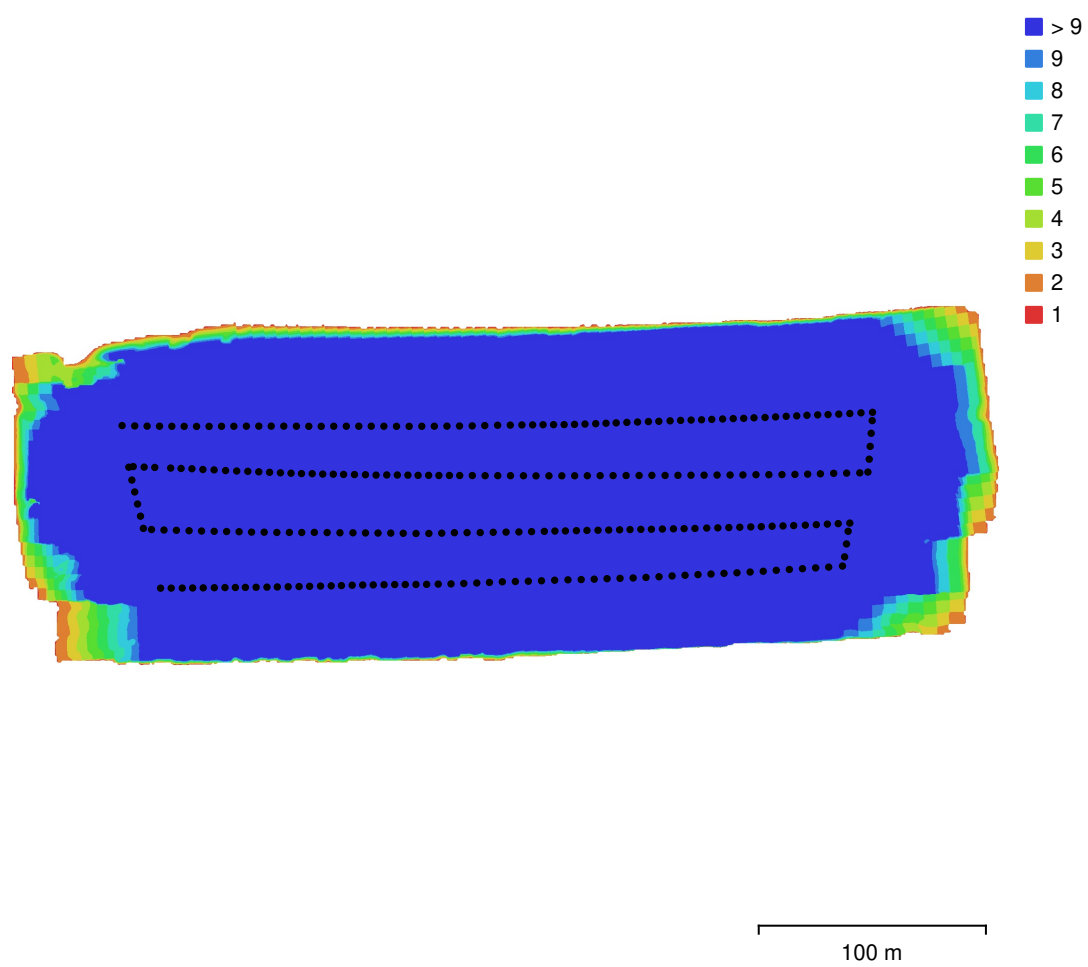


Fig. 1. Camera locations and image overlap.

Number of images:	260	Camera stations:	260
Flying altitude:	87.1 m	Tie points:	61,225
Ground resolution:	2.05 cm/pix	Projections:	685,187
Coverage area:	0.0605 km²	Reprojection error:	1.48 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

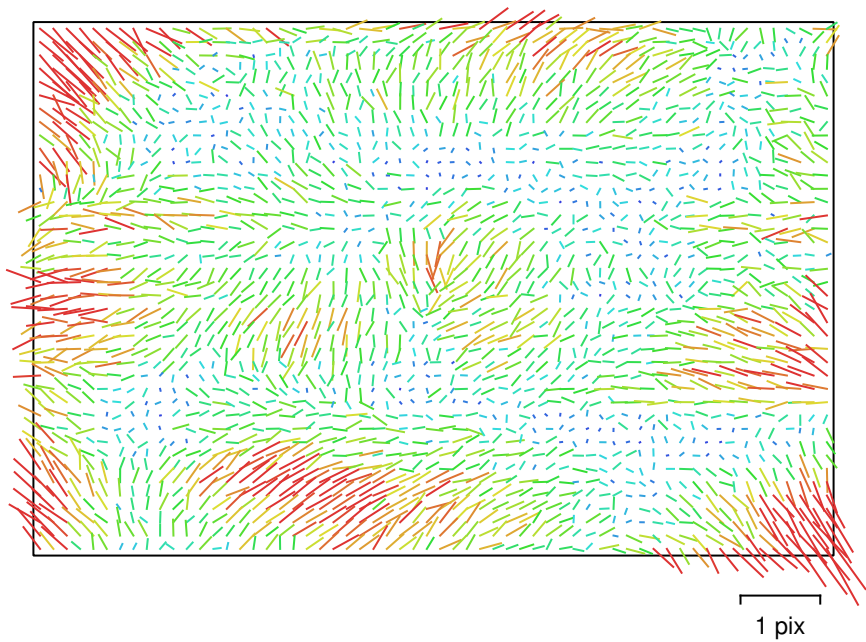


Fig. 2. Image residuals for Test_Pro (10.26mm).

Test_Pro (10.26mm)

260 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	0.0235284	0.00014	1.00	0.07	-0.37	-0.16
K2	-0.00219994	3.9e-05		1.00	-0.12	-0.12
P1	0.00626285	5.5e-05			1.00	0.07
P2	0.00750858	6e-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)
0.961171	1.36553	1.65277	1.66989	2.34951

Table 3. Average camera location error.

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

Digital Elevation Model

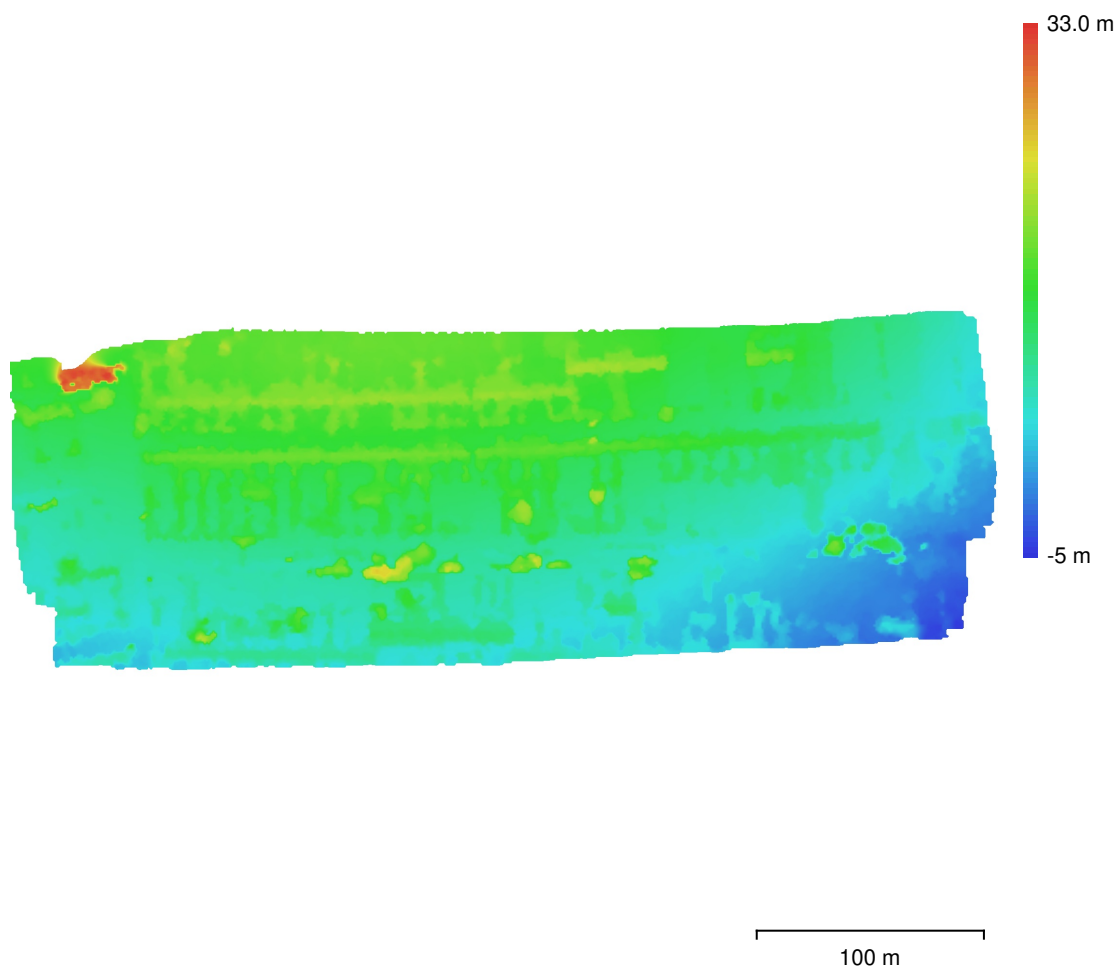


Fig. 4. Reconstructed digital elevation model.

Resolution: 94.7 cm/pix
Point density: 1.12 points/m²

Processing Parameters

General

Images	260
Aligned images	260
Coordinate system	WGS 84 (EPSG::4326)
Rotation angles	Yaw, Pitch, Roll

Tie Points

Points	61,225 of 86,636
RMS reprojection error	0.191293 (1.48288 pix)
Max reprojection error	0.583844 (44.6043 pix)
Mean key point size	6.67838 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	12.891

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	1 minutes 9 seconds
Matching memory usage	355.51 MB
Alignment time	4 minutes 42 seconds
Alignment memory usage	479.04 MB
Date created	2025:02:24 14:55:08
Software version	2.1.3.18946
File size	52.77 MB

DEM

Size	459 x 173
Resolution	94.7 cm/pix
Coordinate system	WGS 84 (EPSG::4326)

Reconstruction parameters

Source data	Tie points
Interpolation	Enabled
Processing time	0 seconds
Memory usage	9.68 MB
Date created	2025:02:24 15:00:09
Software version	2.1.3.18946
File size	366.09 KB

Orthomosaic

Size	4,344 x 1,571
Resolution	10.0 cm/pix
Coordinate system	WGS 84 (EPSG::4326)
Colors	3 bands, uint8
Orthophotos	118.00 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
27 seconds
387.43 MB
2025:02:24 15:00:48
2.1.3.18946
125.49 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