Agisoft Metashape

正在处理报告 24 February 2025



Survey Data

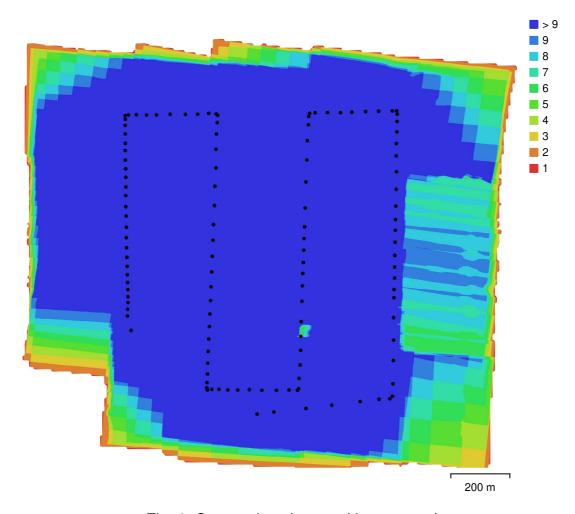
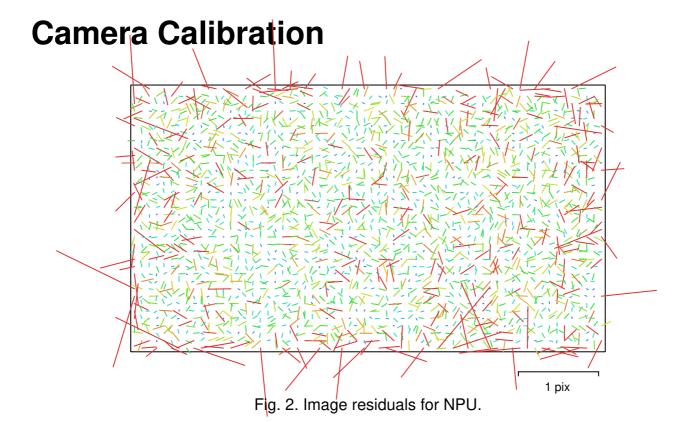


Fig. 1. Camera locations and image overlap.

Number of images: 122 Camera stations: 122 Flying altitude: 394 m Tie points: 29,557 Ground resolution: 35.6 cm/pix Projections: 118,200 Reprojection error: 0.893 pix Coverage area: 2.15 km²

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
NPU	1920 x 1080	unknown	unknown	No

Table 1. Cameras.



NPU

122 images

Frame	1920 x 1080	unknown	unknown
Type	Resolution	Focal Length	Pixel Size

	Value	Error	F	K1	K2
F	1107.25	2.2	1.00	0.08	0.40
K1	-0.00599379	0.00029		1.00	-0.33
K2	0.00649306	0.00013			1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Locations

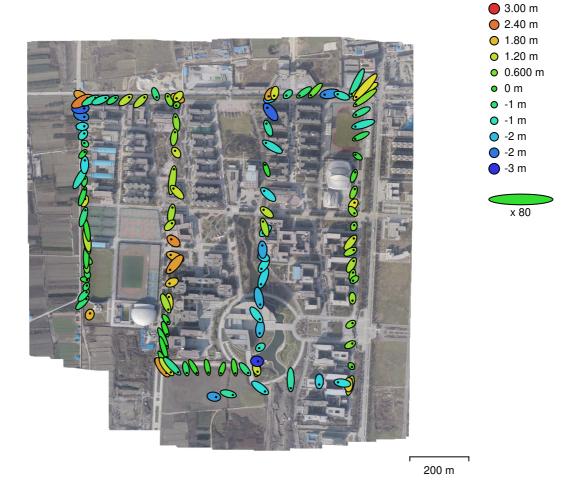


Fig. 3. Camera locations and error estimates.

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)
0.267499	0.365748	1.24777	0.453131	1.3275

Table 3. Average camera location error.

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

Digital Elevation Model

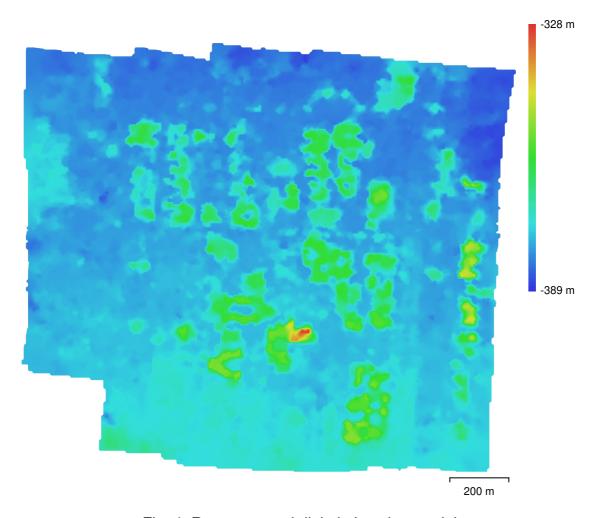


Fig. 4. Reconstructed digital elevation model.

Resolution: 7.50 m/pix

Point density: 0.0178 points/m²

Processing Parameters

General			
Images	122		
Aligned images	122		
Coordinate system	WGS 84 (EPSG::4326)		
Rotation angles	Yaw, Pitch, Roll		
Tie Points			
Points	29,557 of 35,528		
RMS reprojection error	0.117708 (0.892572 pix)		
Max reprojection error	0.357504 (13.404 pix)		
Mean key point size	7.36302 pix		
Point colors	3 bands, uint8		
Key points	No		
Average tie point multiplicity	4.34151		
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	6 seconds		
Matching memory usage	419.49 MB		
Alignment time	27 seconds		
Alignment memory usage	148.64 MB		
Date created	2025:02:24 11:28:14		
Software version	2.1.3.18946		
File size	3.15 MB		
DEM			
Size	287 x 227		
Resolution	7.50 m/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 11:29:27		
Software version	2.1.3.18946		
File size	185.60 KB		
Orthomosaic			
Size	16,731 x 14,554		
Resolution	10.0 cm/pix		
Coordinate system	WGS 84 (EPSG::4326)		
Colors	3 bands, uint8		
Orthophotos	294.76 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

54 seconds 1.40 GB

2025:02:24 11:30:03

2.1.3.18946 390.70 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