Agisoft Metashape

Processing Report 24 June 2024

Survey Data

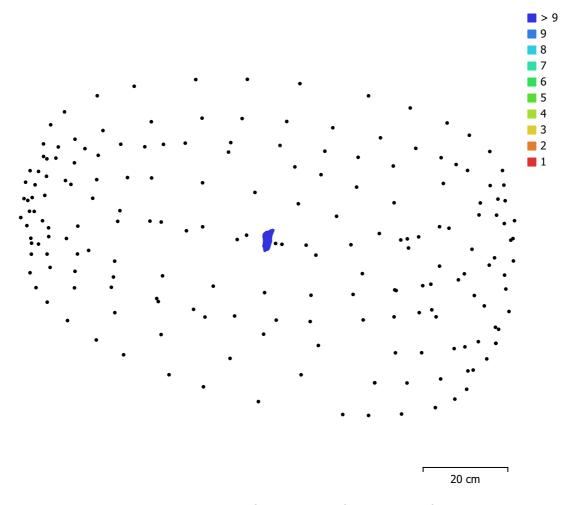


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 191 191 Flying altitude: 56 cm Tie points: 215,777 Ground resolution: 0.0358 mm/pix Projections: 747,533 10.6 cm² Reprojection error: 0.716 pix Coverage area:

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No

Table 1. Cameras.

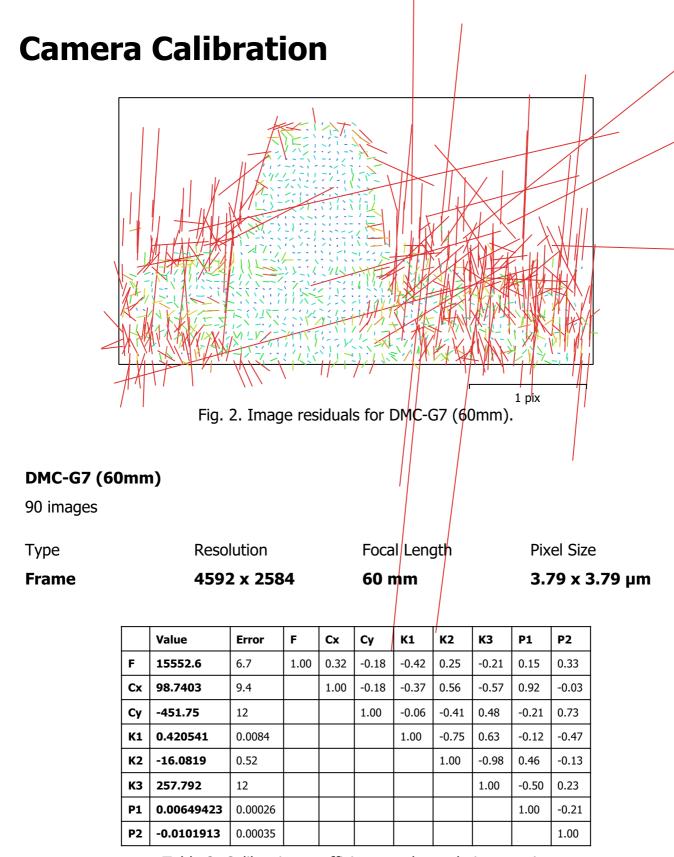


Table 2. Calibration coefficients and correlation matrix.

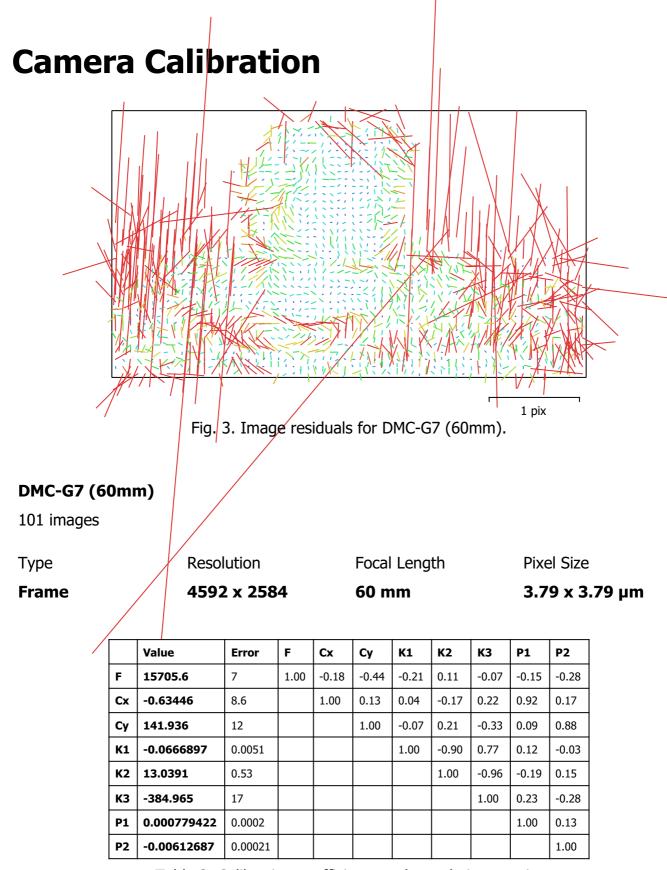


Table 3. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
target 15_target 16	0.0501422	0.00014218
target 19_target 20	0.049857	-0.000142961
Total		0.000142571

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.125 mm/pix

Point density: 63.7 points/mm²

Processing Parameters

General		
Cameras	191	
Aligned cameras	191	
Markers	7	
Scale bars	2	
Coordinate system	Local Coordinates (m)	
Rotation angles	Yaw, Pitch, Roll	
Point Cloud		
Points	215,777 of 260,019	
RMS reprojection error	0.230785 (0.715812 pix)	
Max reprojection error	0.748331 (27.4684 pix)	
Mean key point size	2.89216 pix	
Point colors	3 bands, uint8	
Key points	No	
Average tie point multiplicity	4.04749	
File size	21.77 MB	
Depth Maps		
Count	191	
Depth maps generation parameters		
Quality	Ultra High	
Filtering mode	Mild	
Max neighbors	16	
Processing time	12 minutes 18 seconds	
Memory usage	6.13 GB	
Date created	2024:06:12 11:52:02	
Software version	1.8.4.14671	
File size	175.59 MB	
Model		
Faces	197,696	
Vertices	98,850	
Vertex colors	3 bands, uint8	
Texture	16,000 x 16,000 x 2, 4 bands, uint8	
Depth maps generation parameters		
Quality	Ultra High	
Filtering mode	Mild	
Max neighbors	16	
Processing time	12 minutes 18 seconds	
Memory usage	6.13 GB	
Reconstruction parameters		
Surface type	Arbitrary	
Source data	Depth maps	
Interpolation	Enabled	
Strict volumetric masks	No	
Processing time	1 minutes 47 seconds	
Memory usage	8.51 GB	
Texturing parameters		
Mapping mode	Generic	
Blending mode	Mosaic	
Texture size	16,000	

Yes

Enable hole filling

Enable ghosting filter

UV mapping time UV mapping memory usage

Blending time

Blending memory usage Blending GPU memory usage

Date created

Software version File size

System

Software name Software version

OS RAM

CPU

GPU(s)

Yes

43 seconds 606.30 MB

1 minutes 27 seconds

13.49 GB 11.90 GB

2024:06:12 11:58:06

1.8.4.14671 171.04 MB

Agisoft Metashape Professional

1.8.4 build 14671 Windows 64 bit 127.71 GB

Intel(R) Core(TM) i9-10940X CPU @ 3.30 GHz

Quadro RTX 5000