Agisoft Metashape

Processing Report 24 June 2024



Survey Data

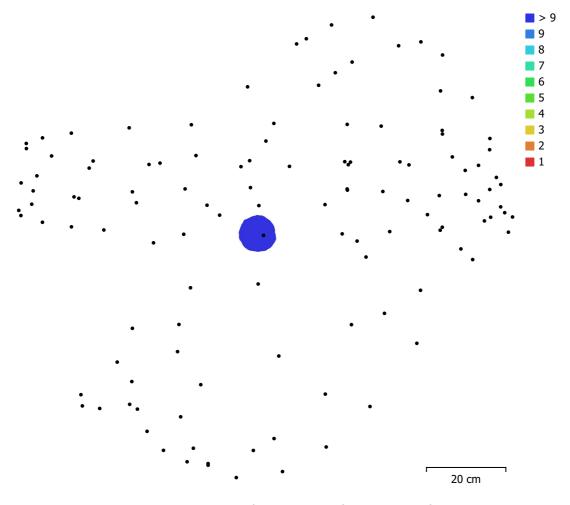


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 123 123 Flying altitude: Tie points: 58.7 cm 471,369 Ground resolution: 0.0443 mm/pix Projections: 1,489,555 67.7 cm² Coverage area: Reprojection error: 0.5 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
DMC-G7 (49mm)	4592 x 2584	49 mm	3.8 x 3.8 µm	No
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Table 1. Cameras.

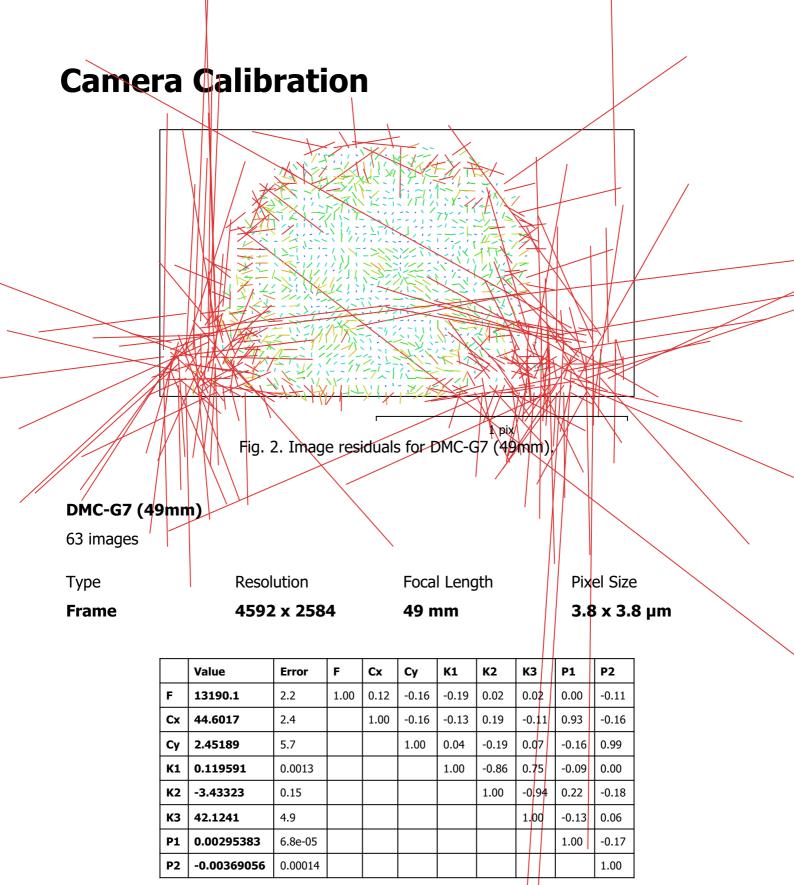
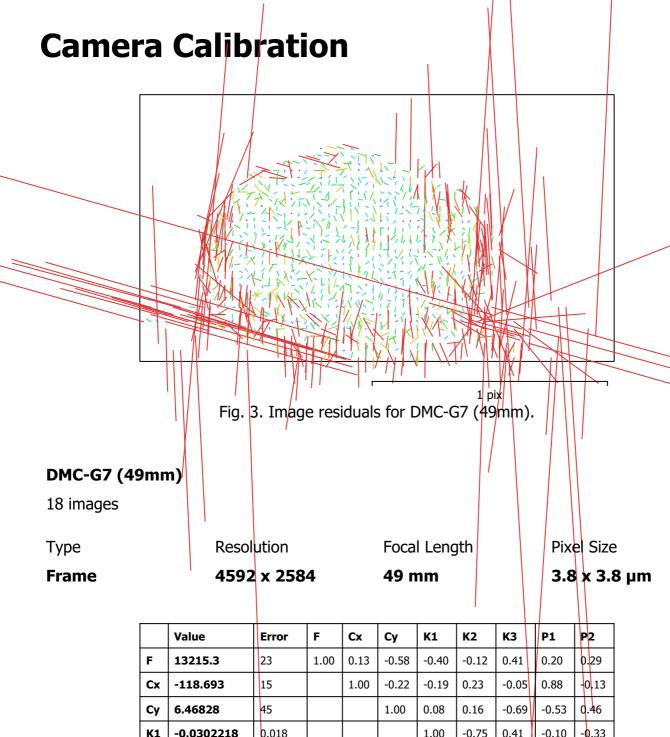


Table 2. Calibration coefficients and correlation matrix.



	Value	Error	F	Сх	Су	K1	K2	КЗ	P1	P2	
F	13215.3	23	1.00	0.13	-0.58	-0.40	-0.12	0.41	0.20	0.2	29
Сх	-118.693	15		1.00	-0.22	-0.19	0.23	-0.05	0.88	-0.	13
Су	6.46828	45			1.00	0.08	0.16	-0.69	-0.53	0.4	16
K1	-0.0302218	0.018				1.00	-0.75	0.41	-0.10	- 0 .:	33
К2	11.2508	1.4					1.00	-0.78	0.12	0.1	.1
К3	-491.227	4 8						1.00	0.19	-0.:	39
P1	-0.00344178	0.00055							1.00	-0.	33
P2	-0.00596405	0.00069								1.0	00

Table 3. Calibration coefficients and correlation matrix.

Camera Calibration

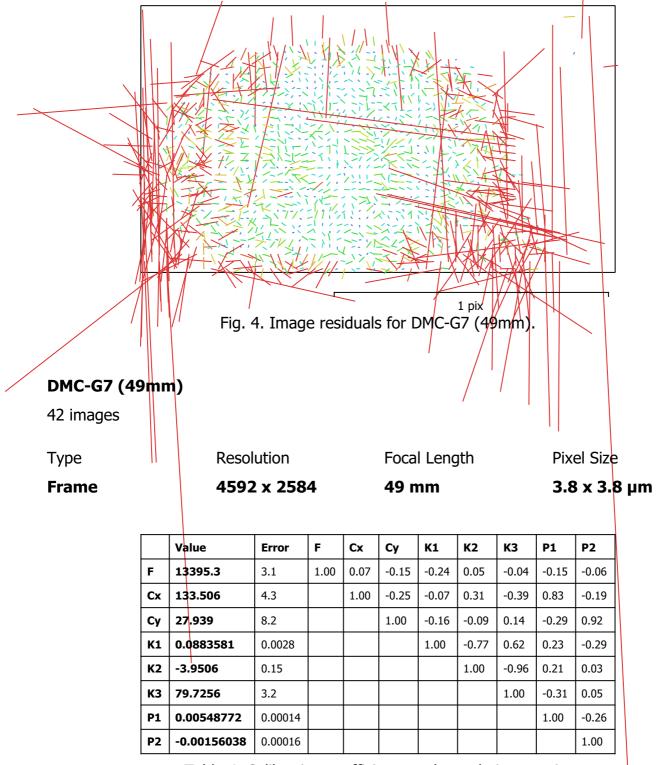


Table 4. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
target 15_target 16	0.05	8.44207e-13
Total		8.44207e-13

Table 5. Control scale bars.

Digital Elevation Model



20 cm

Fig. 5. Reconstructed digital elevation model.

Resolution: 0.159 mm/pix

Point density: 39.5 points/mm²

Processing Parameters

General				
Cameras	123			
Aligned cameras	123			
Markers	8			
Scale bars	3			
Coordinate system	Local Coordinates (m)			
Rotation angles	Yaw, Pitch, Roll			
Point Cloud				
Points	471,369 of 521,176			
RMS reprojection error	0.140679 (0.49997 pix)			
Max reprojection error	0.441982 (37.2138 pix)			
Mean key point size	2.91411 pix			
Point colors	3 bands, uint8			
Key points	No			
Average tie point multiplicity	3.35351			
File size	38.96 MB			
Depth Maps				
Count	123			
Depth maps generation parameters				
Quality	Ultra High			
Filtering mode	Mild			
Max neighbors	16			
Processing time	7 minutes 38 seconds			
Memory usage	5.45 GB			
Date created	2024:05:24 17:29:45			
Software version	1.8.4.14671			
File size	497.06 MB			
Model				
Faces	1,184,890			
Vertices	592,451			
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	7 minutes 38 seconds			
Memory usage	5.45 GB			
Reconstruction parameters				
Surface type	Arbitrary			
Source data	Depth maps			
Interpolation	Enabled			
Strict volumetric masks	No			
Processing time	2 minutes 52 seconds			
Memory usage	7.90 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)

1 minutes 14 seconds

2.73 GB

Yes

1 minutes 26 seconds

14.45 GB 11.95 GB

2024:05:24 17:32:36

1.8.4.14671 344.92 MB

Agisoft Metashape Professional

1.8.4 build 14671 Windows 64 bit 127.71 GB

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

Quadro RTX 5000