Agisoft Metashape

Processing Report 03 July 2024



Survey Data

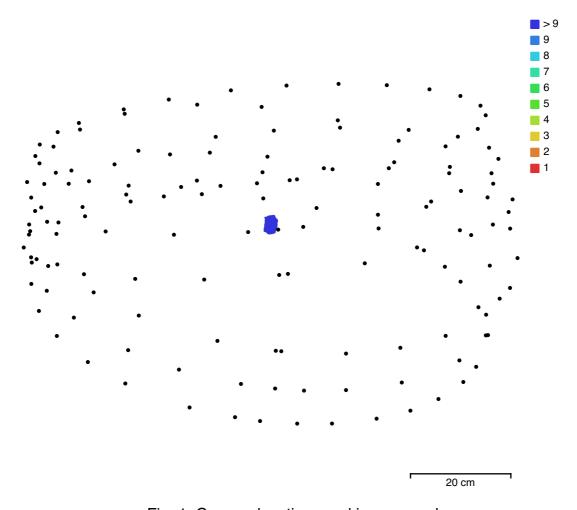


Fig. 1. Camera locations and image overlap.

Number of images: 150 150 Camera stations: Flying altitude: 45.7 cm Tie points: 198,540 668,580 0.0294 mm/pix Projections: Ground resolution: 8.89 cm² Reprojection error: Coverage area: 0.534 pix

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.

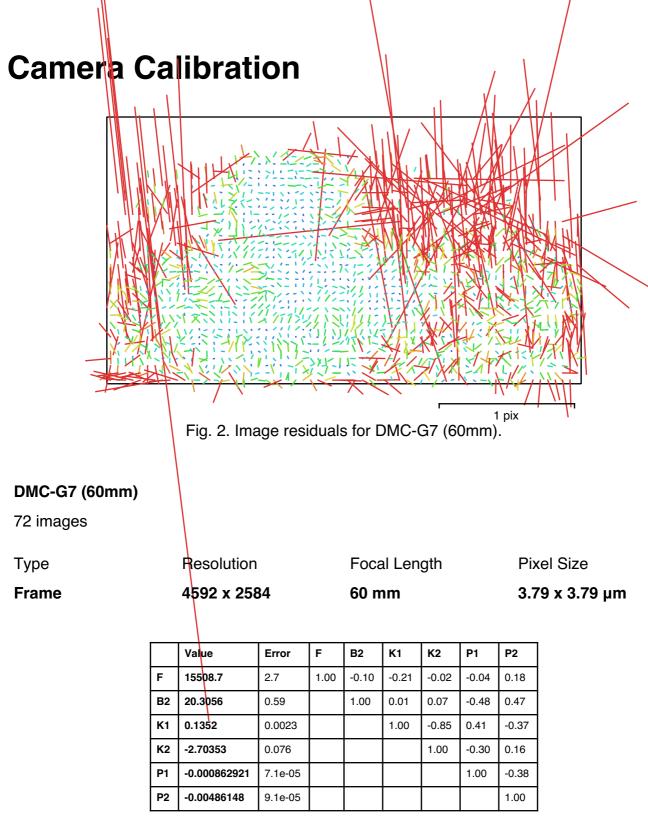


Table 2. Calibration coefficients and correlation matrix.

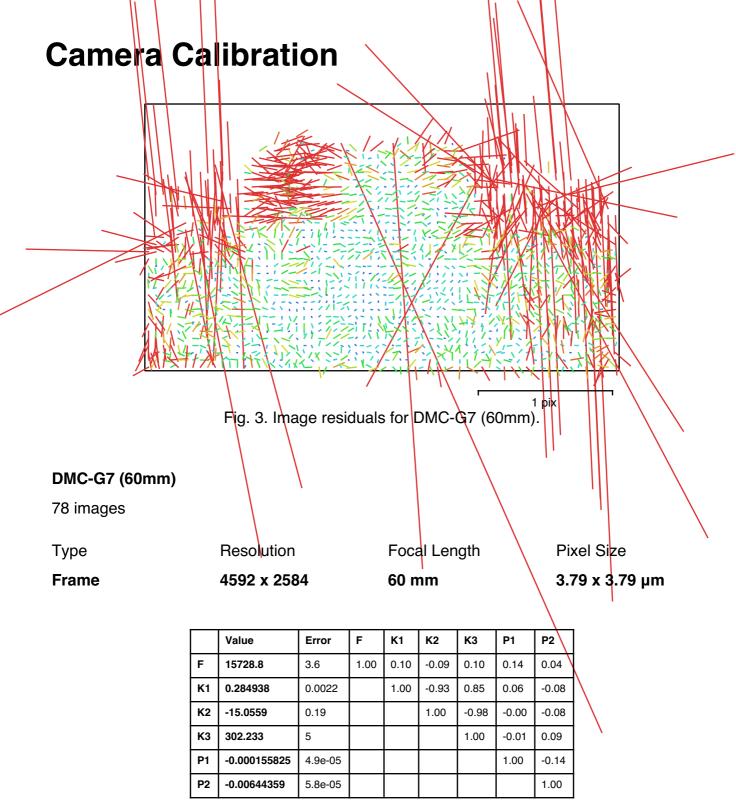


Table 3. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
point 1_point 2	0.0500054	5.44299e-06
point 3_point 4	0.0499946	-5.44402e-06
Total		5.4435e-06

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.0849 mm/pix
Point density: 139 points/mm²

Processing Parameters

General		
Images	150	
Aligned images	150	
Markers	4	
Scale bars	2	
Coordinate system	Local Coordinates (m)	
Rotation angles	Yaw, Pitch, Roll	
Tie Points		
Points	198,540 of 258,852	
RMS reprojection error	0.19517 (0.533842 pix)	
Max reprojection error	0.716895 (14.5525 pix)	
Mean key point size	2.44262 pix	
Point colors	3 bands, uint8	
Key points	No	
Average tie point multiplicity	4.08903	
File size	21.46 MB	
Depth Maps		
Count	150	
Depth maps generation parameters		
Quality	Medium	
Filtering mode	Mild	
Max neighbors	16	
Processing time	1 minutes 52 seconds	
Memory usage	685.21 MB	
Date created	2024:07:03 14:27:39	
Software version	2.1.1.17821	
File size	9.28 MB	
Model		
Faces	519,442	
Vertices	259,717	
Vertex colors	3 bands, uint8	
Texture	8,192 x 8,192 x 2, 4 bands, uint8	
Texturing parameters		
Mapping mode	Generic	
Blending mode	Mosaic	
Texture size	8,192	
Enable hole filling	Yes	
Enable ghosting filter	Yes	
UV mapping time	44 seconds	
UV mapping memory usage	425.35 MB	
Blending time	7 minutes 26 seconds	
Blending memory usage	8.22 GB	
File size	68.48 MB	
System		
Software name	Agisoft Metashape Professional	
Software version	2.1.2 build 18358	
OS	Mac OS 64 bit	
RAM	8.00 GB	
CPU		

GPU(s)

Apple M1