Agisoft Metashape

Processing Report 03 July 2024



Survey Data

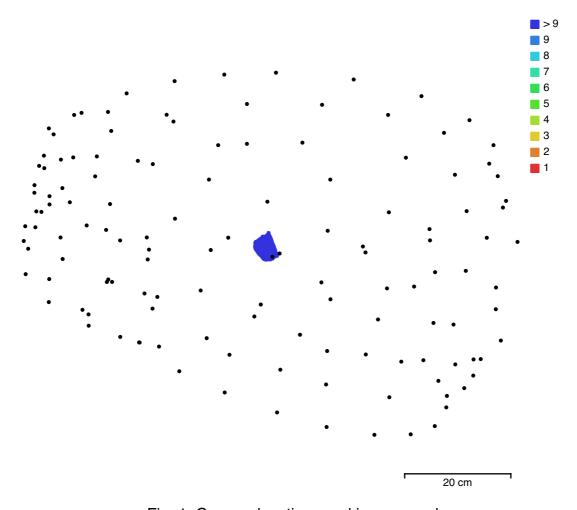


Fig. 1. Camera locations and image overlap.

Number of images: 132 132 Camera stations: Flying altitude: 44.2 cm Tie points: 113,352 Ground resolution: 0.0279 mm/pix Projections: 335,497 18.2 cm² Coverage area: Reprojection error: 0.569 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.

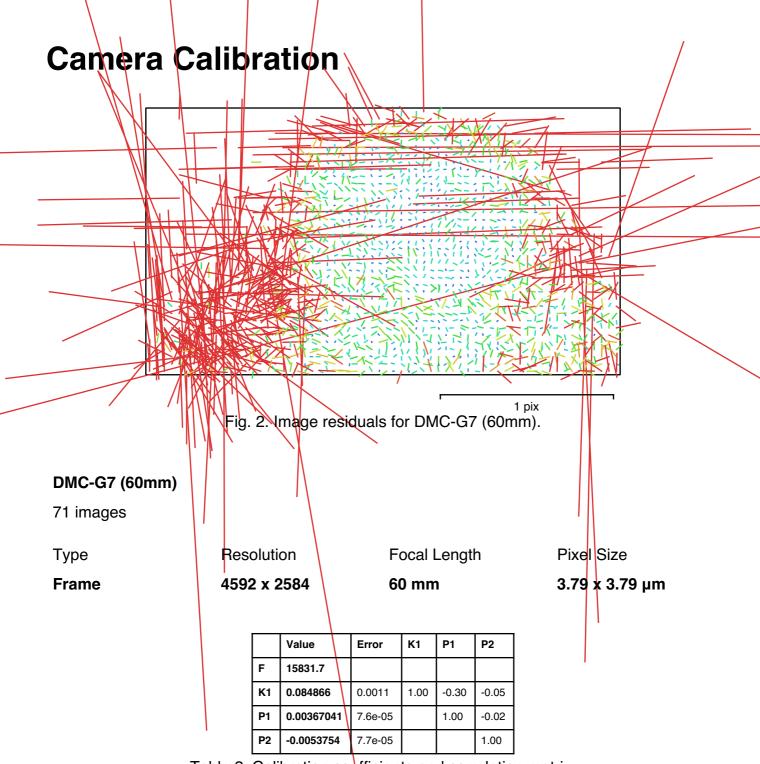


Table 2. Calibration coefficients and correlation matrix.

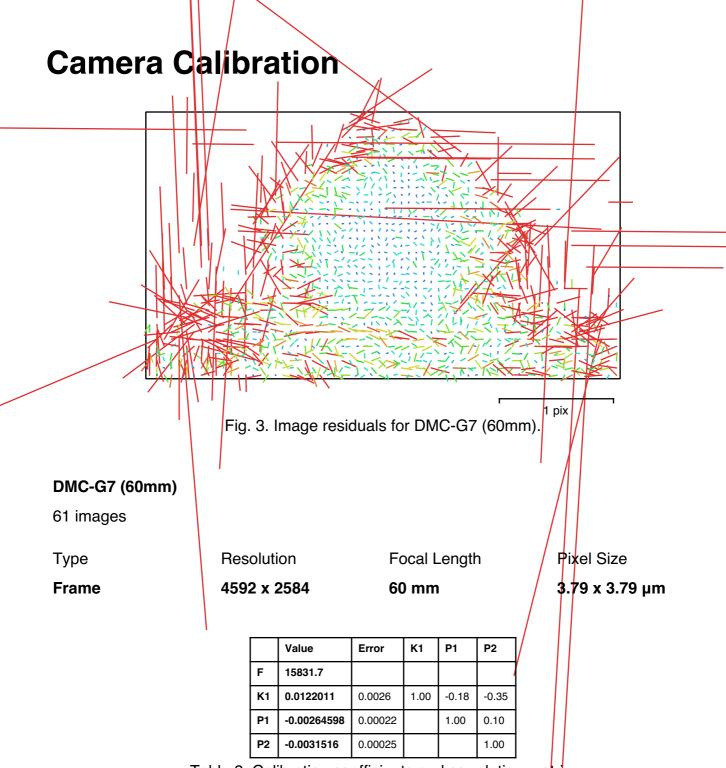


Table 3. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
point 1_point 2	0.05	-1.65395e-13
Total		1.65395e-13

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.0743 mm/pix
Point density: 181 points/mm²

Processing Parameters

General		
Images	132	
Aligned images	132	
Markers	2	
Scale bars	1	
Coordinate system	Local Coordinates (m)	
Rotation angles	Yaw, Pitch, Roll	
Tie Points		
Points	113,352 of 157,809	
RMS reprojection error	0.170881 (0.568696 pix)	
Max reprojection error	0.770319 (18.0944 pix)	
Mean key point size	2.49998 pix	
Point colors	3 bands, uint8	
Key points	No	
Average tie point multiplicity	3.31758	
File size	11.05 MB	
Depth Maps		
Count	132	
Depth maps generation parameters		
Quality	High	
Filtering mode	Mild	
Max neighbors	16	
Processing time	5 minutes 52 seconds	
Memory usage	1.81 GB	
Date created	2024:06:30 18:48:04	
Software version	2.1.1.17821	
File size	72.43 MB	
Model		
Faces	1,479,690	
Vertices	739,857	
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	1 minutes 17 seconds	
UV mapping memory usage	2.68 GB	
Blending time	9 minutes 44 seconds	
Blending memory usage	9.27 GB	
File size	146.38 MB	
System		
Software name	Agisoft Metashape Professional	
Software version	2.1.2 build 18358	
OS	Mac OS 64 bit	
RAM	8.00 GB	
CPU		

Apple M1

GPU(s)