Agisoft Metashape

Processing Report 24 June 2024

Survey Data

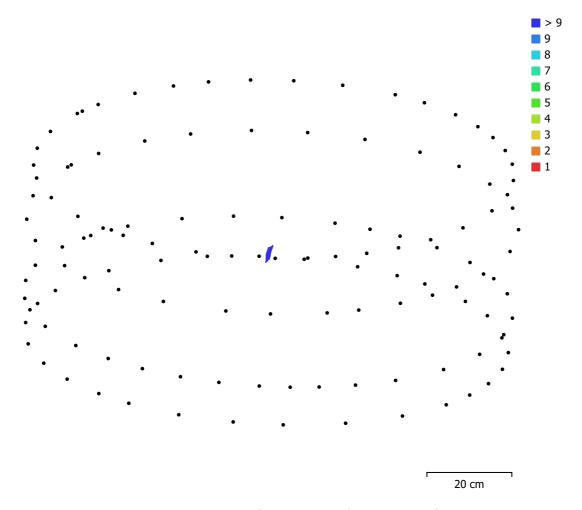
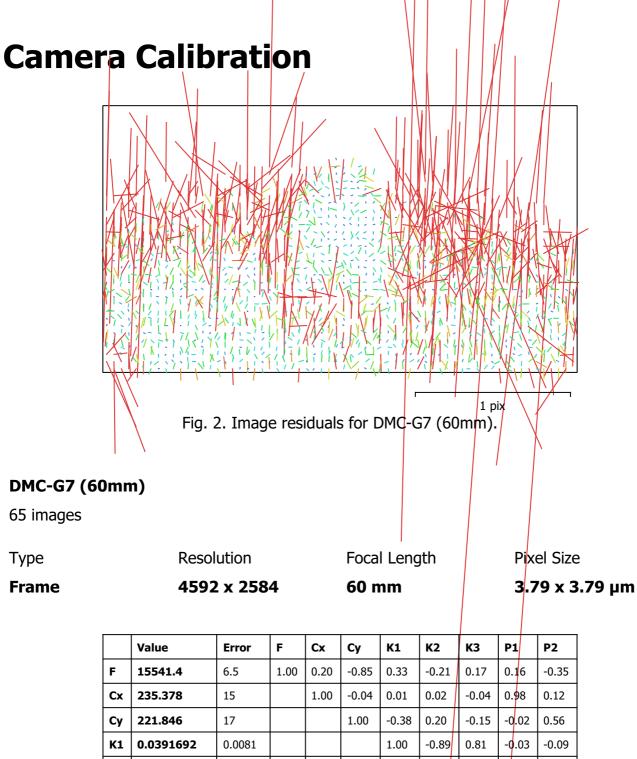


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 129 129 Flying altitude: 58.3 cm Tie points: 80,078 Ground resolution: Projections: 0.0374 mm/pix 242,513 Coverage area: 4 cm^2 Reprojection error: 0.639 pix

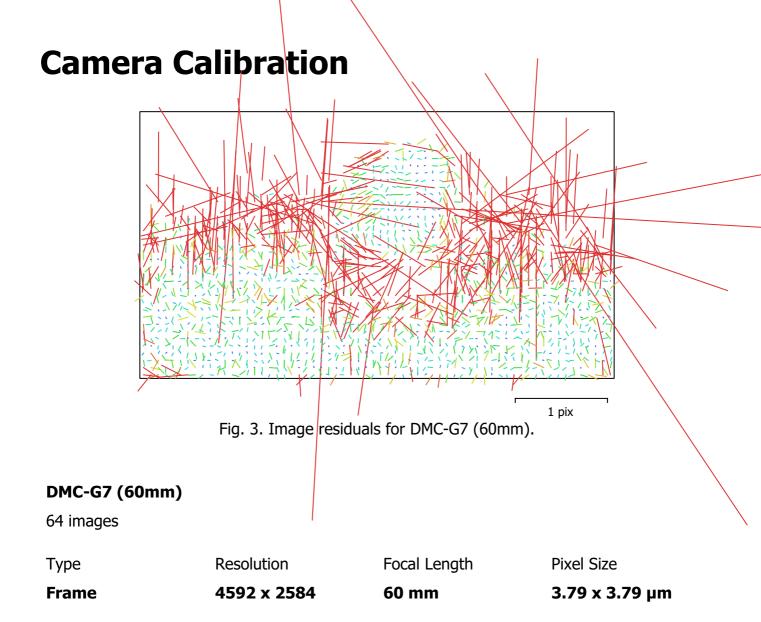
Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No

Table 1. Cameras.



	Value	Error	F	Сх	Су	K1	К2	КЗ	P1		P2
F	15541.4	6.5	1.00	0.20	-0.85	0.33	-0.21	0.17	0.1	6	-0.35
Сх	235.378	15		1.00	-0.04	0.01	0.02	-0.04	0.9	98	0.12
Су	221.846	17			1.00	-0.38	0.20	-0.15	-0.	02	0.56
K1	0.0391692	0.0081				1.00	-0.89	0.81	-0.	03	-0.09
К2	-1.03397	0.62					1.00	-0.98	0.0)8	-0.10
КЗ	26.2287	14						1.00	-0.	08	0.12
P1	0.00708664	0.00035			·				1.0	00	0.09
P2	-0.00357701	0.00018									1.00

Table 2. Calibration coefficients and correlation matrix.



	Value	Error	F	Сх	Су	К1	К2	КЗ	P1	P2
F	15652.4	6.3	1.00	0.24	-0.67	-0.15	0.13	-0.12	0.22	-0.37
Сх	126.486	15		1.00	-0.09	0.07	-0.03	0.01	0.99	0.06
Су	152.733	14			1.00	0.07	-0.07	0.08	-0.05	0.77
K1	0.0929104	0.0072				1.00	-0.93	0.85	0.07	0.05
К2	-1.3298	0.52					1.00	-0.98	-0.02	-0.12
КЗ	23.0689	12						1.00	0.01	0.14
P1	0.00448664	0.00037							1.00	0.07
P2	-0.00858994	0.00025								1.00

Table 3. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)			
target 15_target 16	0.0499738	-2.62153e-05			
target 19_target 20	0.0500262	2.61926e-05			
Total		2.62039e-05			

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.0968 mm/pix
Point density: 107 points/mm²

Processing Parameters

General	
Cameras	129
Aligned cameras	129
Markers	8
Scale bars	2
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll
Point Cloud	
Points	80,078 of 104,280
RMS reprojection error	0.162614 (0.638616 pix)
Max reprojection error	0.553954 (31.4396 pix)
Mean key point size	3.05506 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	3.52567
File size	7.76 MB
Depth Maps	7.70115
Count	127
Depth maps generation parameters	127
Quality	Ultra High
Filtering mode	Mild
_	16
Max neighbors	
Processing time	7 minutes 9 seconds
Memory usage	5.97 GB
Date created	2024:05:31 13:05:18
Software version	1.8.4.14671
File size	56.25 MB
Model	264.444
Faces	264,144
Vertices	132,074
Vertex colors	3 bands, uint8
Texture	16,000 x 16,000 x 2, 4 bands, uint8
Texturing parameters	
Mapping mode	Generic
Blending mode	Mosaic
Texture size	16,000
Enable hole filling	Yes
Enable ghosting filter	Yes
UV mapping time	20 seconds
UV mapping memory usage	605.05 MB
Blending time	1 minutes 18 seconds
Blending memory usage	13.37 GB
Blending GPU memory usage	11.90 GB
File size	196.35 MB
System	
Software name	Agisoft Metashape Professional
Software version	1.8.4 build 14671
OS	Windows 64 bit
RAM	127.71 GB
CPU	Intel(R) Core(TM) i9-10940X CPU @ 3.30GHz

GPU(s) Quadro RTX 5000