Agisoft Metashape

Processing Report 12 July 2024

Survey Data

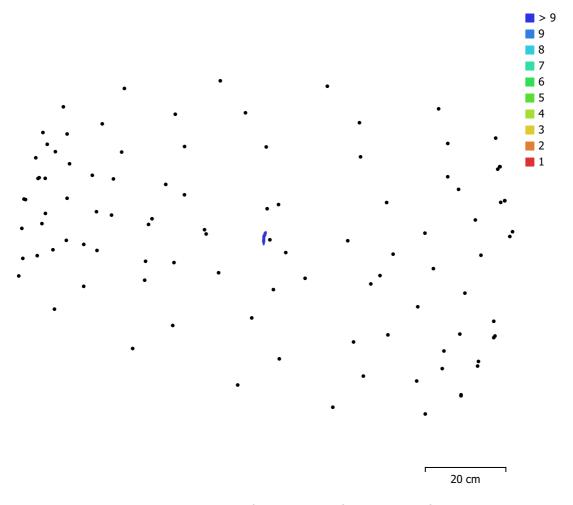


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 101 101 Flying altitude: 58.7 cm Tie points: 72,604 Ground resolution: Projections: 229,405 0.0371 mm/pix 2.48 cm² Reprojection error: 0.763 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.

Camera Calibration

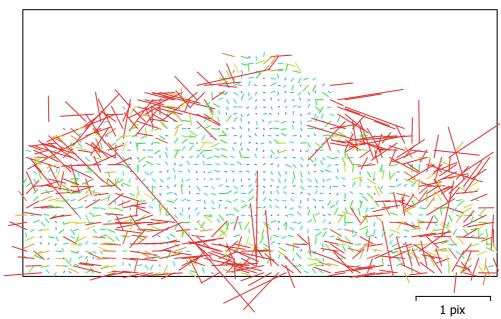


Fig. 2. Image residuals for DMC-G7 (60mm).

DMC-G7 (60mm)

54 images

Frame	4592 x 2584	60 mm	3.79 x 3.79 µm
Type	Resolution	Focal Length	Pixel Size

	Value	Error	K1	P1	P2
F	15831.7				
К1	0.133982	0.0025	1.00	-0.03	-0.20
P1	0.00138656	6.8e-05		1.00	-0.13
P2	-3.53499e-05	0.00021			1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Calibration

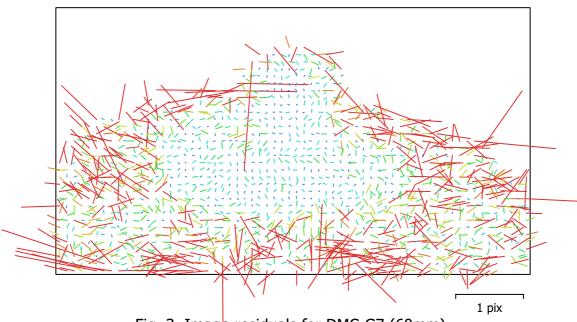


Fig. 3. Image residuals for DMC-G7 (60mm).

DMC-G7 (60mm)

47 images

Frame	4592 x 2584	60 mm	3.79 x 3.79 µm
Туре	Resolution	Focal Length	Pixel Size

	Value	Error	P1	P2
F	15831.7			
P1	0.00236271	9.3e-05	1.00	-0.04
P2	-0.00224799	0.00022		1.00

Table 3. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
target 19_target 20	0.0499326	-6.73836e-05
target 19_target 20	0.0500672	6.71953e-05
Total		6.72895e-05

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.107 mm/pix

Point density: 87.8 points/mm²

Processing Parameters

General	
Cameras	101
Aligned cameras	101
Markers	4
Scale bars	2
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll
Point Cloud	70 (04 - (100 [14
Points	72,604 of 100,514
RMS reprojection error	0.205223 (0.762847 pix)
Max reprojection error	0.621583 (46.9128 pix)
Mean key point size	3.17696 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	3.17981
File size	6.84 MB
Depth Maps	
Count	97
Depth maps generation parameters	
Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	33 seconds
Memory usage	911.91 MB
Date created	2024:07:12 13:09:43
Software version	1.8.4.14671
File size	3.50 MB
Model	
Faces	269,544
Vertices	134,774
Vertex colors	3 bands, uint8
Texture	16,384 x 16,384, 4 bands, uint8
Texturing parameters	, , , ,
Mapping mode	Generic
Blending mode	Mosaic
Texture size	16,384
Enable hole filling	Yes
Enable ghosting filter	Yes
UV mapping time	24 seconds
UV mapping memory usage	365.85 MB
Blending time	43 seconds
Blending memory usage	8.83 GB
Blending GPU memory usage	6.41 GB
File size	99.37 MB
	99.37 MB
System	Asiast Matachana Duafassianal
Software version	Agisoft Metashape Professional 1.8.4 build 14671
Software version	
OS DAM	Windows 64 bit
RAM	127.71 GB
CPU	Intel(R) Core(TM) i9-10940X CPU @ 3.30GHz

GPU(s) Quadro RTX 5000