## **Agisoft Metashape**

Processing Report 27 June 2024



## Survey Data

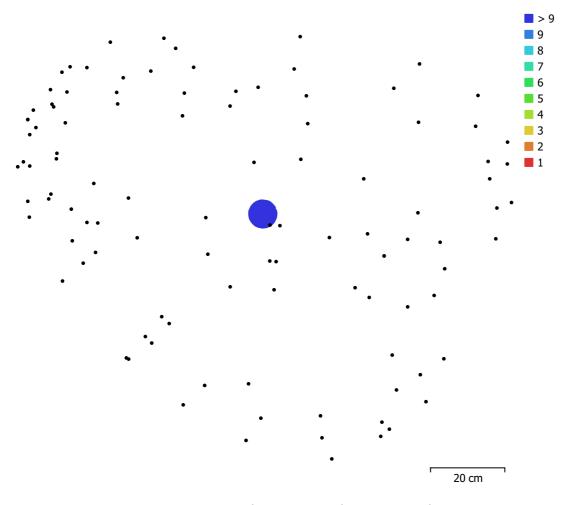


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 106 106 Flying altitude: 63.7 cm Tie points: 385,240 Ground resolution: 0.0431 mm/pix Projections: 1,312,443 Coverage area: 48.1 cm<sup>2</sup> Reprojection error: 0.481 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
DMC-G7 (55mm)	4592 x 2584	55 mm	3.8 x 3.8 µm	No
DMC-G7 (55mm)	4592 x 2584	55 mm	3.8 x 3.8 µm	No

Table 1. Cameras.

#### **Camera Calibration**

**P2** 

-0.00324891

0.00025

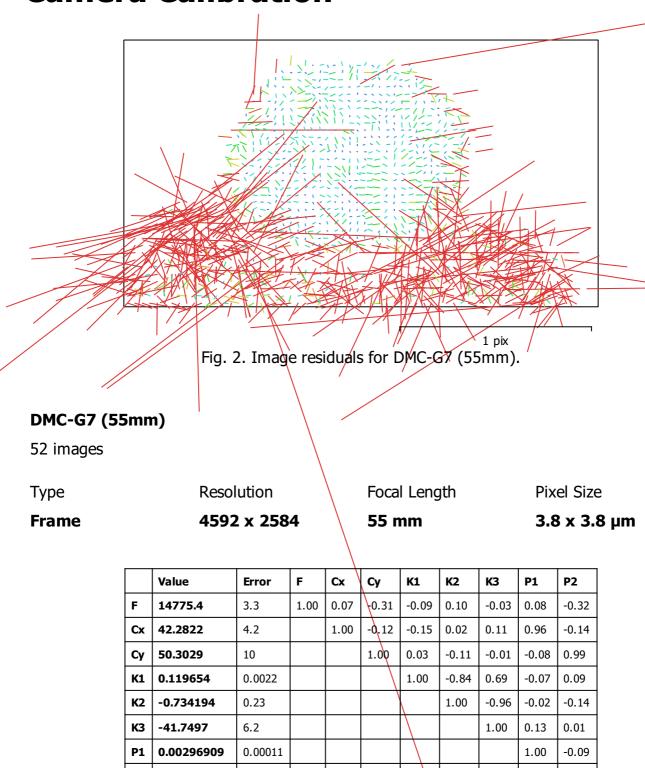


Table 2. Calibration coefficients and correlation matrix.

1.00

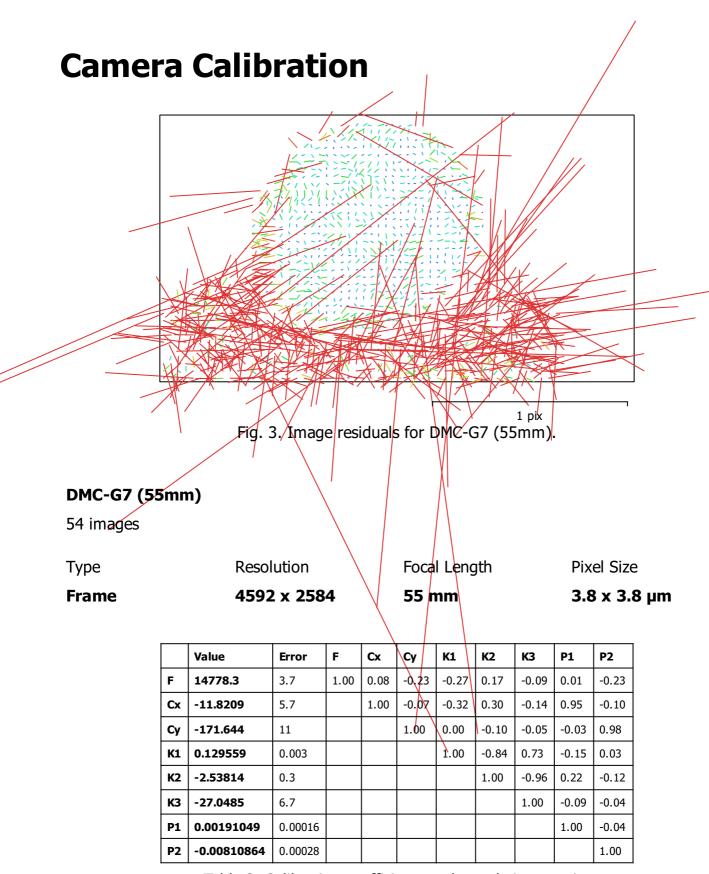


Table 3. Calibration coefficients and correlation matrix.

### **Scale Bars**

Label	Distance (m)	Error (m)	
target 19_target 20	0.05	1.06547e-13	
Total		1.06547e-13	

Table 4. Control scale bars.

## **Digital Elevation Model**



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.771 mm/pix
Point density: 1.68 points/mm<sup>2</sup>

# **Processing Parameters**

General		
Cameras	106	
Aligned cameras	106	
Markers	4	
Scale bars	1	
Tie Points		
Points	385,240 of 428,751	
RMS reprojection error	0.131082 (0.481478 pix)	
Max reprojection error	0.401871 (36.2692 pix)	
Mean key point size	3.0713 pix	
Point colors	3 bands, uint8	
Key points	No	
Average tie point multiplicity	3.67673	
File size	34.11 MB	
Model		
Faces	50,000	
Vertices	25,002	
Vertex colors	3 bands, uint8	
Texture	8,192 x 8,192, 4 bands, uint8	
Depth maps generation parameters		
Quality	Ultra High	
Filtering mode	Mild	
Max neighbors	16	
Processing time	7 minutes 9 seconds	
Memory usage	4.84 GB	
Reconstruction parameters		
Surface type	Arbitrary	
Source data	Depth maps	
Interpolation	Enabled	
Strict volumetric masks	No	
Processing time	2 minutes 23 seconds	
Memory usage	7.89 GB	
Texturing parameters		
Mapping mode	Generic	
Blending mode	Mosaic	
Texture size	8,192	
Enable hole filling	Yes	
Enable ghosting filter	Yes	
UV mapping time	8 seconds	
UV mapping memory usage	27.76 MB	
Blending time	42 seconds	
Blending memory usage	2.65 GB	
Blending GPU memory usage	1.87 GB	
Date created	2024:06:01 20:47:06	
Software version	1.8.4.14671	
File size	56.27 MB	
System		
Software name	Agisoft Metashape Standard	
Software version	2.1.1 build 17821	

Windows 64 bit

os

RAM CPU GPU(s) 15.70 GB Intel(R) Core(TM) i9-9980HK CPU @ 2.40GHz Quadro T2000