Agisoft Metashape

Processing Report 27 June 2024



Survey Data

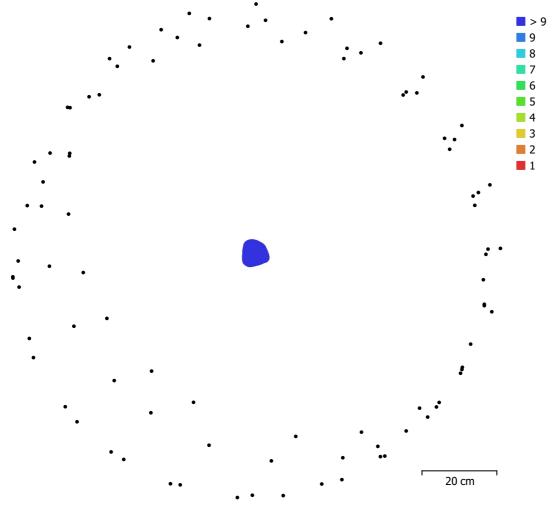


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 93 93 Flying altitude: Tie points: 70,390 62.6 cm Ground resolution: 0.04 mm/pix Projections: 212,507 Coverage area: 43.3 cm² Reprojection error: 0.572 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.

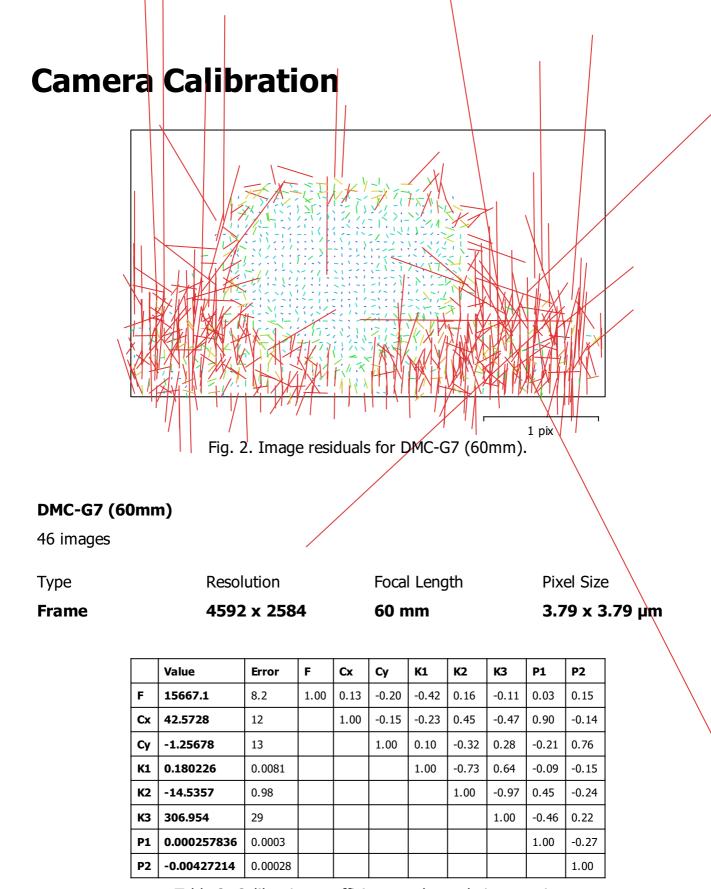


Table 2. Calibration coefficients and correlation matrix.

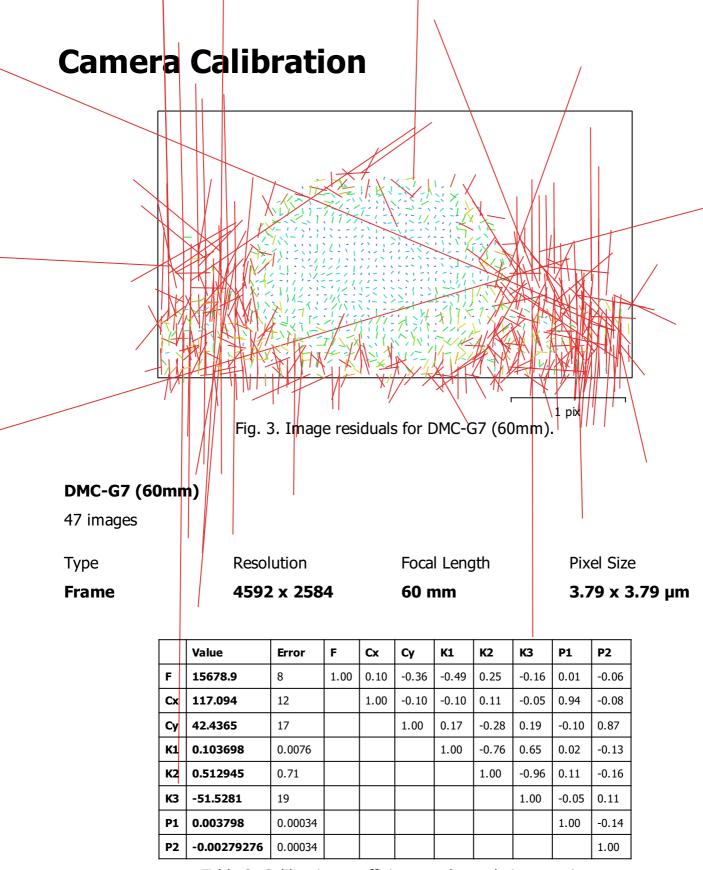


Table 3. Calibration coefficients and correlation matrix.

Scale Bars

| Label | Distance (m) | Error (m) |
|---------------------|--------------|--------------|
| target 15_target 16 | 0.0500402 | 4.02184e-05 |
| target 19_target 20 | 0.0499597 | -4.02762e-05 |
| Total | | 4.02473e-05 |

Table 4. Control scale bars.

Digital Elevation Model



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.657 mm/pix
Point density: 2.32 points/mm²

Processing Parameters

| General | | |
|----------------------------------|-------------------------------|--|
| Cameras | 93 | |
| Aligned cameras | 93 | |
| Markers | 8 | |
| Scale bars | 2 | |
| Tie Points | | |
| Points | 70,390 of 99,598 | |
| RMS reprojection error | 0.138813 (0.572001 pix) | |
| Max reprojection error | 0.442292 (38.5517 pix) | |
| Mean key point size | 2.88325 pix | |
| Point colors | 3 bands, uint8 | |
| Key points | No | |
| Average tie point multiplicity | 3.08068 | |
| File size | 6.59 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 | 5 minutes 29 seconds | |
| Memory usage | 4.76 GB | |
| Reconstruction parameters | | |
| Surface type | Arbitrary | |
| Source data | Depth maps | |
| Interpolation | Enabled | |
| Strict volumetric masks | No | |
| Processing time | 1 minutes 34 seconds | |
| Memory usage | 8.20 GB | |
| Texturing parameters | | |
| Mapping mode | Generic | |
| Blending mode | Mosaic | |
| Texture size | 8,192 | |
| Enable hole filling | Yes | |
| Enable ghosting filter | Yes | |
| UV mapping time | 6 seconds | |
| UV mapping memory usage | 86.59 MB | |
| Blending time | 58 seconds | |
| Blending memory usage | 4.13 GB | |
| Blending GPU memory usage | 1.87 GB | |
| Date created | 2024:06:01 13:03:16 | |
| Software version | 1.8.4.14671 | |
| File size | 56.07 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