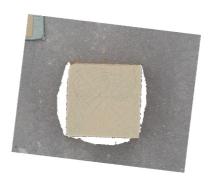
Agisoft Metashape

Processing Report 05 August 2020



Survey Data

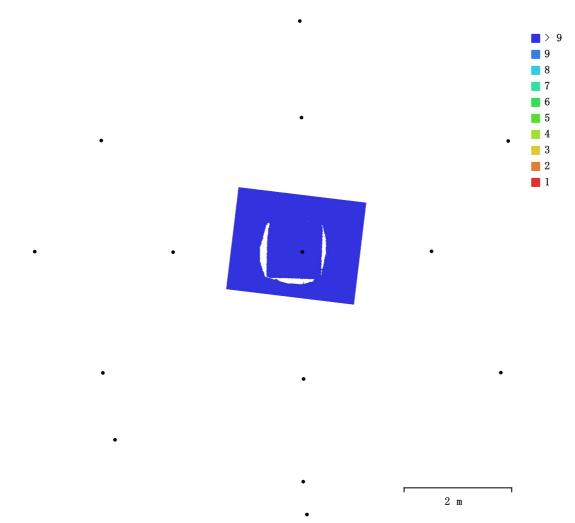


Fig. 1. Camera locations and image overlap.

Number of images: 19 Camera stations: 14 Tie points: Flying altitude: 27.2 m 6,540 Ground resolution: 1.5 mm/pixProjections: 15,671 Coverage area: 4.37 m^2 Reprojection error: 0.463 pix

Ca	mera Model	Resolution	Focal Length	Pixel Size	Precalibrated
FC	6310R (8.8mm)	5472 x 3648	8.8 mm	2.41 x 2.41 µm	No

Table 1. Cameras.

Camera Calibration

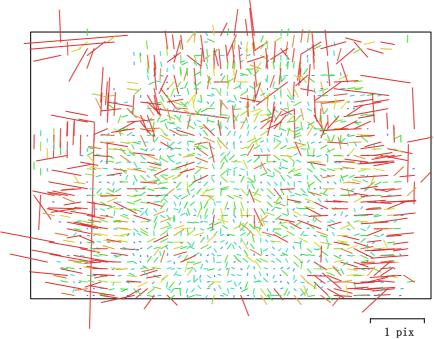


Fig. 2. Image residuals for FC6310R (8.8mm).

FC6310R (8.8mm)

19 images

Туре	Resolution	Focal Length	Pixel Size
Frame	5472 x 3648	8.8 mm	2.41 x 2.41 µm

	Value	Error	Сх	Су	B1	P1	P2
F	3648						
Сх	3. 15112	0. 33	1.00	-0.02	-0.02	0. 96	-0.03
Су	30.6314	0. 43		1.00	-0. 13	-0.08	0. 92
B1	0.575923	0.064			1.00	-0.03	0.08
P1	0.000301047	3e-05				1.00	-0.09
P2	0.000821644	4. 8e-05					1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Locations

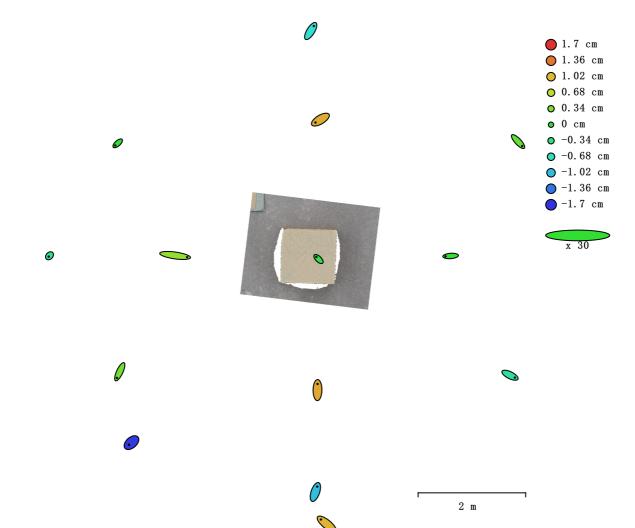


Fig. 3. Camera locations and error estimates.

Z error is represented by ellipse color. X, Y errors are represented by ellipse shape.

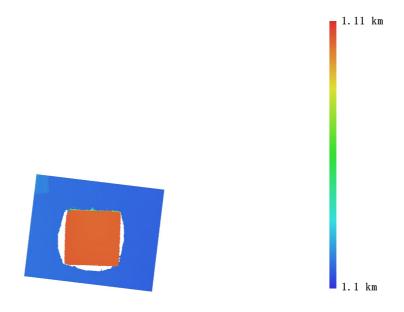
Estimated camera locations are marked with a black dot.

X error (cm)	Y error (cm)	Z error (cm)	XY error (cm)	Total error (cm)
0. 579175	0. 47188	0. 795925	0. 74707	1. 09161

Table 3. Average camera location error.

X - Longitude, Y - Latitude, Z - Altitude.

Digital Elevation Model



2 m

Fig. 4. Reconstructed digital elevation model.

Resolution: unknown
Point density: unknown

Processing Parameters

General					
Cameras	19				
Aligned cameras	14				
Coordinate system	WGS 84 (EPSG::4326)				
Rotation angles	Yaw, Pitch, Roll				
Point Cloud					
Points	6,540 of 9,761				
RMS reprojection error	0.128109 (0.463257 pix)				
Max reprojection error	0.384136 (12.8421 pix)				
Mean key point size	3.34571 pix				
Point colors	3 bands, uint8				
Key points	No				
Average tie point multiplicity	2. 29638				
Alignment parameters					
Accuracy	High				
Generic preselection	Yes				
Reference preselection	Source				
Key point limit	40, 000				
Tie point limit	4, 000				
Guided image matching	No				
Adaptive camera model fitting	Yes				
Matching time	20 seconds				
Matching memory usage	106. 61 MB				
Alignment time	1 seconds				
Alignment memory usage	16. 00 KB				
Software version	1. 6. 3. 10732				
Depth Maps					
Count	6				
Depth maps generation parameters					
Quality	High				
Filtering mode	Mild				
Processing time	9 seconds				
Dense Point Cloud					
Points	510, 352				
Point colors	3 bands, uint8				
Depth maps generation parameters					
Quality	High				
Filtering mode	Mild				
Processing time	9 seconds				
Dense cloud generation parameters					
Processing time	5 seconds				
Software version	1. 6. 3. 10732				
System					
Software name	Agisoft Metashape Professional				
Software version	1.6.3 build 10732				
OS	Windows 64 bit				
RAM	7.86 GB				
CPU	Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz				
GPU(s)	GeForce GTX 1050				