Agisoft PhotoScan

Processing Report
09 January 2021

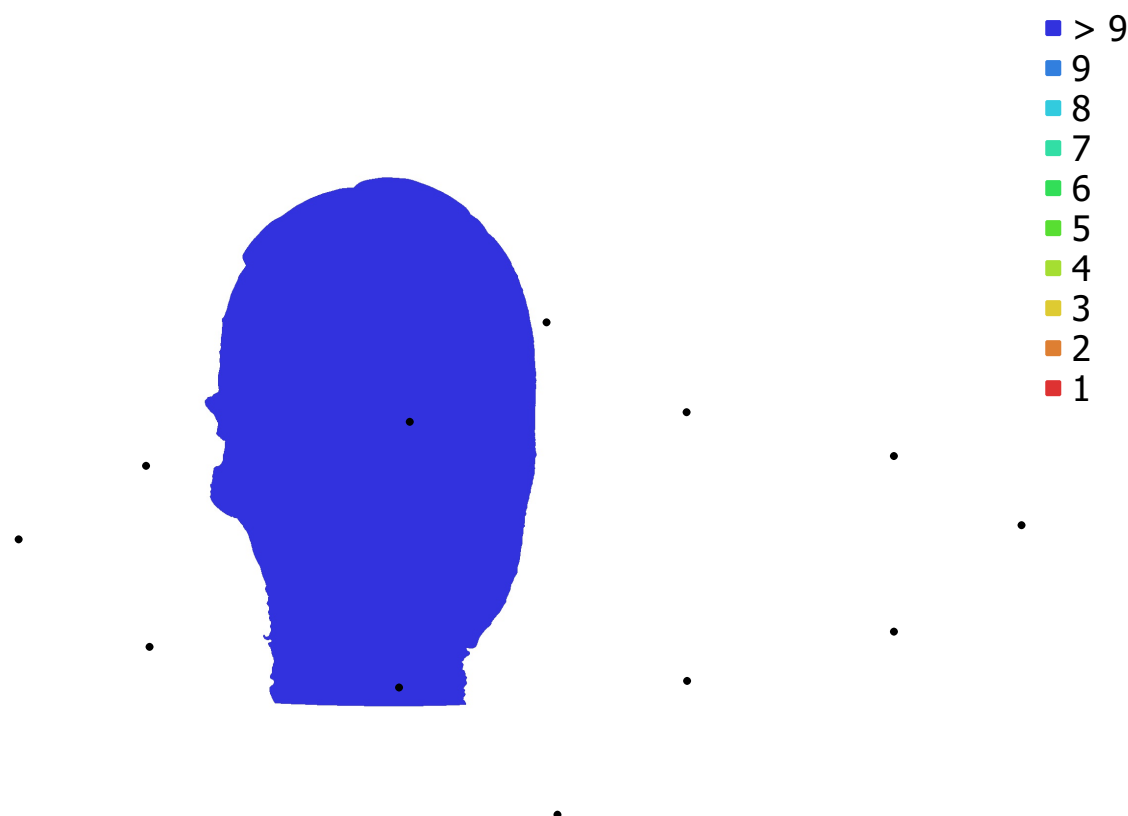# Survey Data

Fig. 1. Camera locations and image overlap.

> 9		
9		
8		
7		
6		
5		
4		
3		
2		
1		

Number of images: 12

Camera stations: 12
Tie points: 1,946
Projections: 5,053
Reprojection error: 1.1 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
unknown	1080 x 1920	unknown	unknown	No

Table 1. Cameras.

Camera Calibration

1 pix
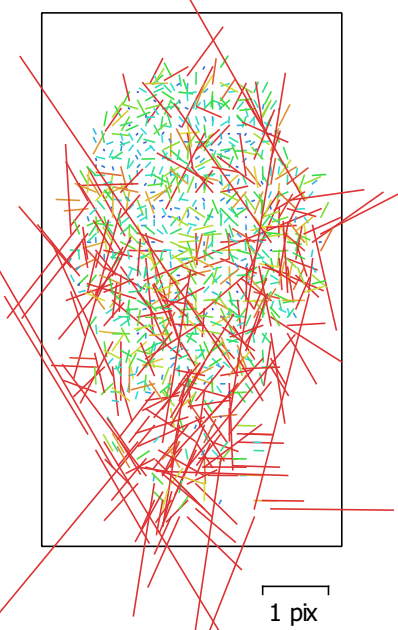
Fig. 2. Image residuals for unknown.

unknown

12 images

Type	Resolution	Focal Length	Pixel Size
Frame	**1080 x 1920**	**unknown**	**unknown**

	Value	Error	F
F	**2805.53**	11	1.00

Table 2. Calibration coefficients and correlation matrix.

Digital Elevation Model
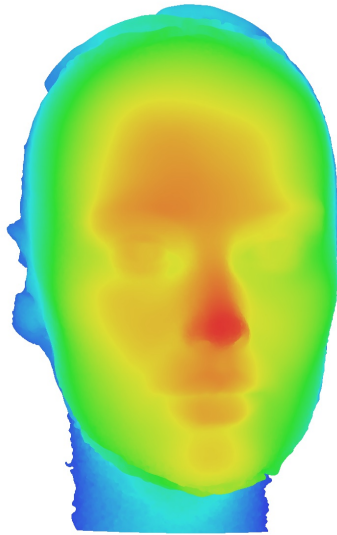
Fig. 3. Reconstructed digital elevation model.

Processing Parameters

General

    Cameras   12

Cameras	12
Aligned cameras	12
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll

Point Cloud

Points	1,946 of 2,201
RMS reprojection error	0.158286 (1.0971 pix)
Max reprojection error	0.479778 (23.1727 pix)
Mean key point size	5.25616 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	2.74148

    Alignment parameters

Accuracy	High
Generic preselection	No
Key point limit	80,000
Tie point limit	8,000
Adaptive camera model fitting	Yes
Matching time	2 seconds
Alignment time	0 seconds

Dense Point Cloud

Points	1,699,611
Point colors	3 bands, uint8

    Reconstruction parameters

Quality	Ultra High
Depth filtering	Aggressive
Depth maps generation time	41 seconds
Dense cloud generation time	14 seconds

Model

Faces	339,916
Vertices	171,192
Vertex colors	3 bands, uint8

    Reconstruction parameters

Surface type	Arbitrary
Source data	Dense
Interpolation	Enabled
Quality	Ultra High
Depth filtering	Aggressive
Face count	339,916
Processing time	1 minutes 41 seconds

Software

Version	1.4.3 build 6488
Platform	Windows 64