

Ground Control Points



Fig. 4. GCP locations.

Count	X error (cm)	Y error (cm)	Z error (cm)	XY error (cm)	Total (cm)	Image (pix)
7	2.70307	3.54242	1.75556	4.45593	4.78929	1.689

Table 3. Control points RMSE.

Label	X error (cm)	Y error (cm)	Z error (cm)	Total (cm)	Image (pix)
GCP1	-1.64057	-4.35888	-3.1582	5.62721	3.296 (16)
GCP2	-0.248785	1.37342	1.07472	1.76158	0.916 (11)
GCP3	4.75719	1.93491	2.83492	5.86613	0.713 (7)
GCP4	1.25855	0.322277	0.0836723	1.30185	0.320 (12)
GCP5	-0.28931	-1.36692	-0.746809	1.58426	0.454 (10)
GCP6	1.16809	6.56994	1.35588	6.80933	0.928 (6)
GCP7	-4.76757	-4.25141	-0.0695532	6.38819	0.501 (7)
Total	2.70307	3.54242	1.75556	4.78929	1.689

Table 4. Control points.

Digital Elevation Model

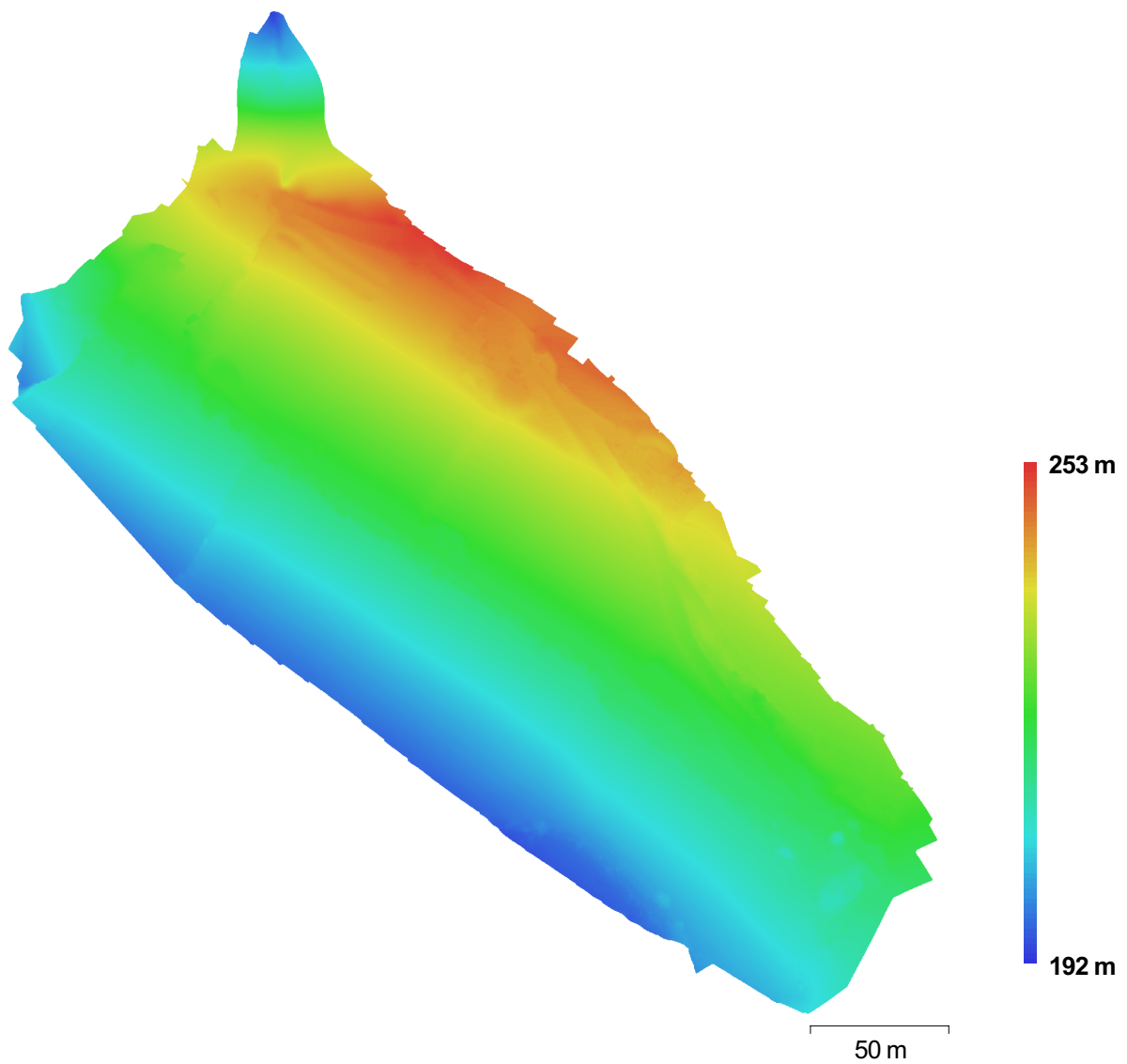


Fig. 5. Reconstructed digital elevation model.

Resolution:	3.24 cm/pix
Point density:	955 points/m ²

Processing Parameters

General

Cameras	198
Aligned cameras	198
Markers	7
Coordinate system	WGS 84 (EPSG:4326)

Point Cloud

Points	39,592 of 81,095
RMS reprojection error	0.282595 (0.903137 pix)
Max reprojection error	0.859942 (47.0104 pix)
Mean key point size	2.64642 pix
Effective overlap	11.9786

Alignment parameters

Accuracy	High
Pair preselection	Reference
Key point limit	40,000
Tie point limit	4,000
Constrain features by mask	No
Adaptive camera model fitting	Yes
Matching time	40 minutes 33 seconds
Alignment time	10 minutes 19 seconds

Dense Point Cloud

Points	55,036,823
--------	------------

Reconstruction parameters

Quality	High
Depth filtering	Aggressive
Depth maps generation time	8 hours 31 minutes
Dense cloud generation time	2 hours 21 minutes

Model

Faces	3,598,640
Vertices	1,803,727
Texture	4,096 x 4,096, uint8

Reconstruction parameters

Surface type	Height field
Source data	Dense
Interpolation	Enabled
Quality	High
Depth filtering	Aggressive
Face count	3,669,117
Processing time	3 minutes 30 seconds

Texturing parameters

Mapping mode	Adaptive orthophoto
Blending mode	Mosaic
Texture size	4,096 x 4,096
Enable color correction	Yes
Enable hole filling	Yes
UV mapping time	1 minutes 4 seconds
Blending time	44 minutes 48 seconds

DEM

Size	13,152 x 13,621
Coordinate system	WGS 84 (EPSG:4326)

Reconstruction parameters

Source data	Dense cloud
Interpolation	Enabled
Processing time	1 minutes 40 seconds

Orthomosaic

Size	20,769 x 22,376
------	-----------------

Coordinate system	WGS 84 (EPSG::4326)
Channels	3, uint8
Blending mode	Mosaic
Reconstruction parameters	
Surface	DEM
Enable color correction	Yes
Processing time	39 minutes 5 seconds
Software	
Version	1.2.6 build 2834
Platform	Windows 64 bit