

# Agisoft Metashape

正在处理报告

24 February 2025



# Survey Data

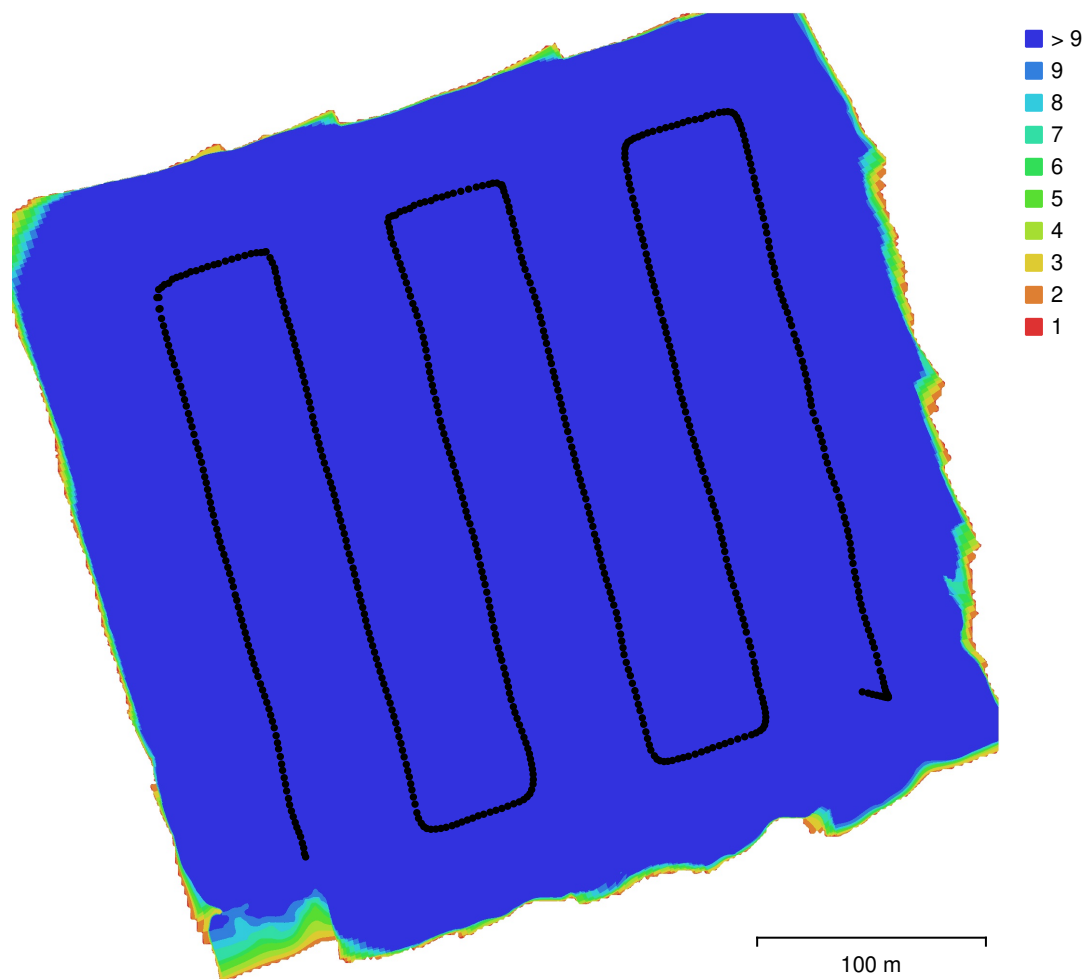


Fig. 1. Camera locations and image overlap.

|                    |                       |                     |         |
|--------------------|-----------------------|---------------------|---------|
| Number of images:  | 655                   | Camera stations:    | 655     |
| Flying altitude:   | 98.6 m                | Tie points:         | 58,873  |
| Ground resolution: | 7.95 cm/pix           | Projections:        | 249,077 |
| Coverage area:     | 0.131 km <sup>2</sup> | Reprojection error: | 1 pix   |

| Camera Model | Resolution  | Focal Length | Pixel Size | Precalibrated |
|--------------|-------------|--------------|------------|---------------|
| alexa        | 1228 x 1026 | unknown      | unknown    | No            |

Table 1. Cameras.

# Camera Calibration

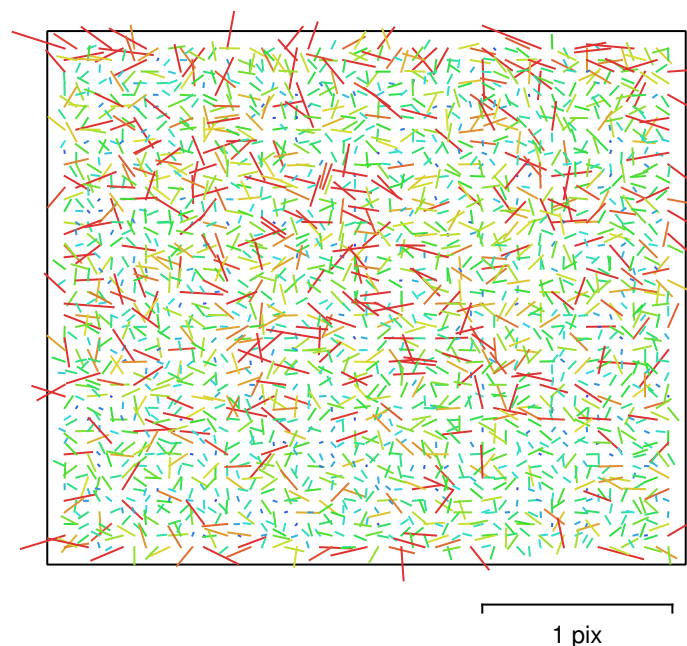


Fig. 2. Image residuals for alexa.

**alexa**

655 images

Type

Resolution

Focal Length

Pixel Size

**Frame**

**1228 x 1026**

**unknown**

**unknown**

|           | Value            | Error  | F    | K1    | K2    |
|-----------|------------------|--------|------|-------|-------|
| <b>F</b>  | <b>1239.84</b>   | 4.3    | 1.00 | -0.92 | 0.94  |
| <b>K1</b> | <b>-0.210915</b> | 0.0015 |      | 1.00  | -0.94 |
| <b>K2</b> | <b>0.146424</b>  | 0.0021 |      |       | 1.00  |

Table 2. Calibration coefficients and correlation matrix.



# Camera Locations

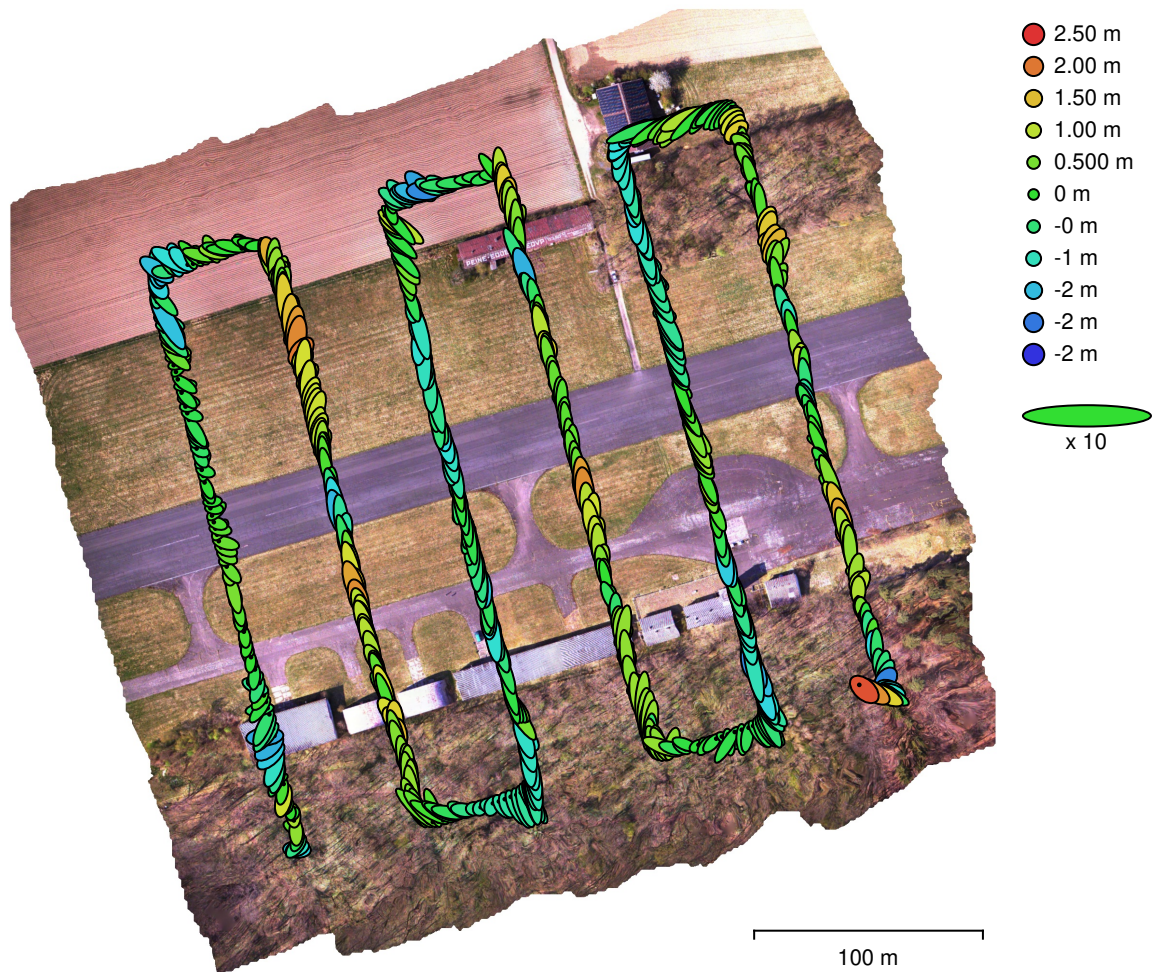


Fig. 3. Camera locations and error estimates.

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 (m) | Y error (m) | Z error (m) | XY error (m) | Total error (m) |
|-------------|-------------|-------------|--------------|-----------------|
| 0.445854    | 0.918077    | 0.77646     | 1.02061      | 1.2824          |

Table 3. Average camera location error.

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

# Digital Elevation Model

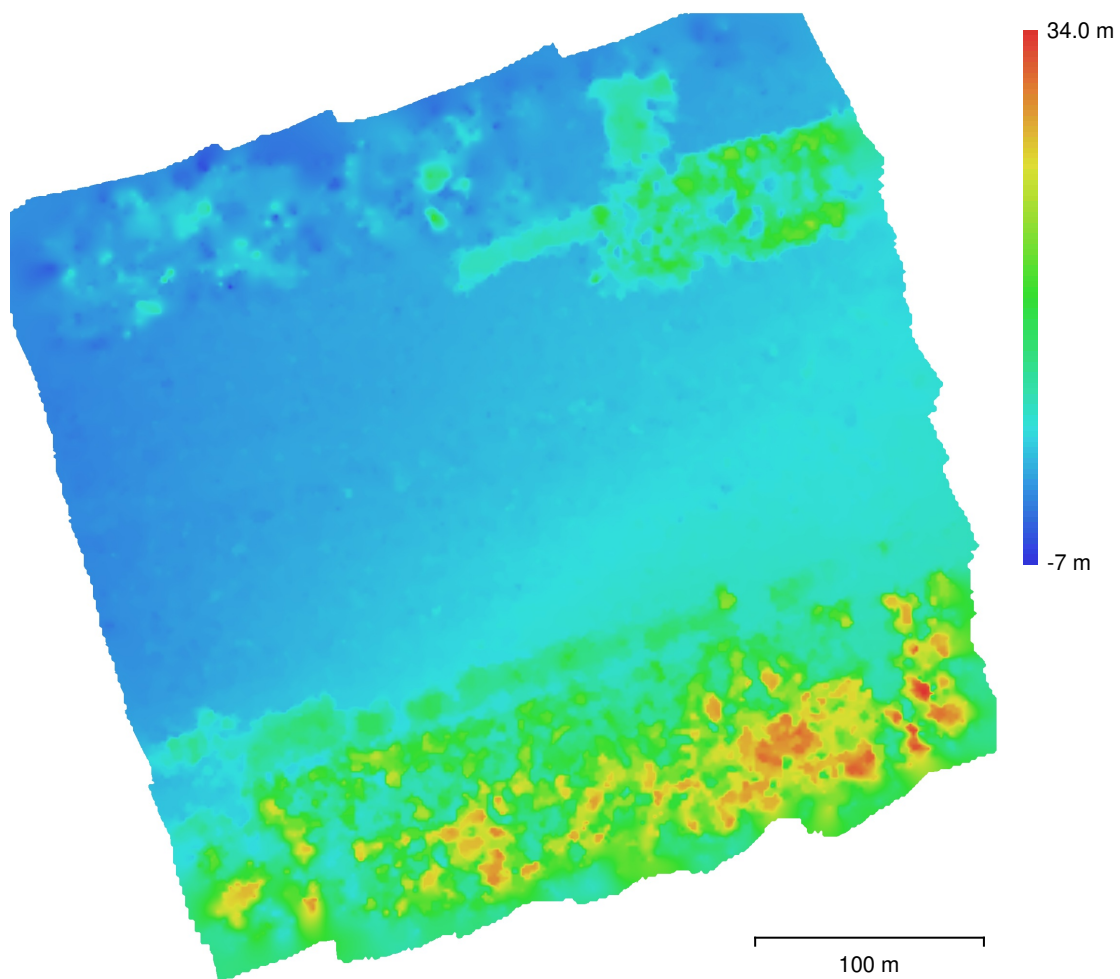


Fig. 4. Reconstructed digital elevation model.

Resolution: 1.34 m/pix  
Point density: 0.553 points/m<sup>2</sup>

# Processing Parameters

## General

|                   |                     |
|-------------------|---------------------|
| Images            | 655                 |
| Aligned images    | 655                 |
| Coordinate system | WGS 84 (EPSG::4326) |
| Rotation angles   | Yaw, Pitch, Roll    |

## Tie Points

|                                |                        |
|--------------------------------|------------------------|
| Points                         | 58,873 of 72,204       |
| RMS reprojection error         | 0.161936 (1.00402 pix) |
| Max reprojection error         | 0.491658 (13.9992 pix) |
| Mean key point size            | 5.92198 pix            |
| Point colors                   | 3 bands, uint8         |
| Key points                     | No                     |
| Average tie point multiplicity | 4.99619                |

## Alignment parameters

|                               |                      |
|-------------------------------|----------------------|
| Accuracy                      | Medium               |
| Generic preselection          | Yes                  |
| Reference preselection        | Source               |
| Key point limit               | 40,000               |
| Key point limit per Mpx       | 1,000                |
| Tie point limit               | 4,000                |
| Exclude stationary tie points | Yes                  |
| Guided image matching         | Yes                  |
| Adaptive camera model fitting | Yes                  |
| Matching time                 | 38 seconds           |
| Matching memory usage         | 260.70 MB            |
| Alignment time                | 3 minutes 41 seconds |
| Alignment memory usage        | 509.84 MB            |
| Date created                  | 2025:02:24 14:11:40  |
| Software version              | 2.1.3.18946          |
| File size                     | 7.14 MB              |

## DEM

|                   |                     |
|-------------------|---------------------|
| Size              | 321 x 364           |
| Resolution        | 1.34 m/pix          |
| Coordinate system | WGS 84 (EPSG::4326) |

## Reconstruction parameters

|                  |                     |
|------------------|---------------------|
| Source data      | Tie points          |
| Interpolation    | Enabled             |
| Processing time  | 1 seconds           |
| Memory usage     | 0 B                 |
| Date created     | 2025:02:24 14:15:31 |
| Software version | 2.1.3.18946         |
| File size        | 431.20 KB           |

## Orthomosaic

|                   |                     |
|-------------------|---------------------|
| Size              | 4,314 x 4,220       |
| Resolution        | 10.0 cm/pix         |
| Coordinate system | WGS 84 (EPSG::4326) |
| Colors            | 3 bands, uint8      |
| Orthophotos       | 326.72 MB           |

## Reconstruction parameters

|               |        |
|---------------|--------|
| Blending mode | Mosaic |
|---------------|--------|

Surface  
Enable hole filling  
Enable ghosting filter  
Processing time  
Memory usage  
Date created  
Software version  
File size

DEM  
Yes  
No  
47 seconds  
755.17 MB  
2025:02:24 14:16:46  
2.1.3.18946  
347.30 MB

**System**

Software name  
Software version  
OS  
RAM  
CPU  
GPU(s)

Agisoft Metashape Professional  
2.1.3 build 18946  
Linux 64 bit  
62.51 GB  
Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz  
NVIDIA GeForce GTX 1070