

Project report

Date: Fri Sep 2 2022 17:47:14
Build with: Z+FLaserControl 9.0.2.24038
Project: Muzeul Etnografic Tulcea
Master scan position: 1

Quality standard deviation of the cloud to cloud registration

d:2.77 mm

Superior matrix

1.000000	0.000000	0.000000	0.0000 m
0.000000	1.000000	0.000000	0.0000 m
0.000000	0.000000	1.000000	0.0000 m
0.000000	0.000000	0.000000	1.0000

Scan position '10'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

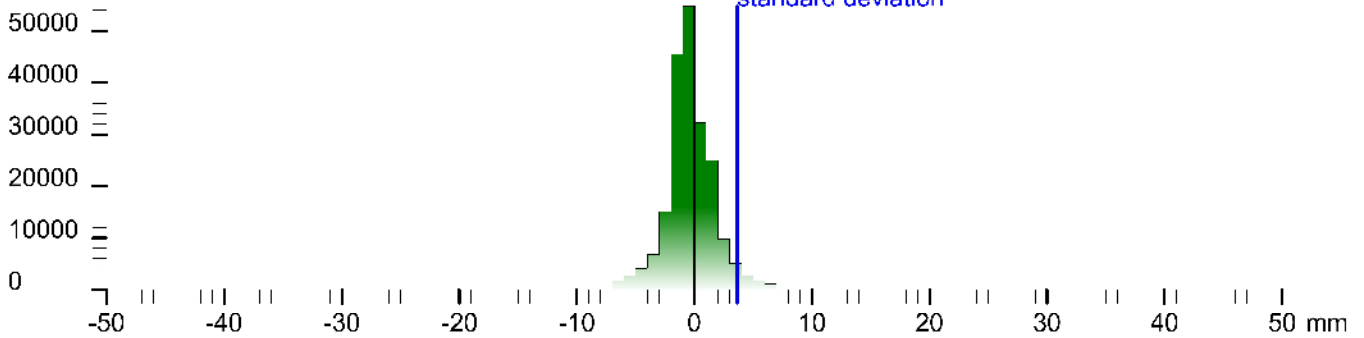
Registration matrix:

```
-0.142906 -0.989736 -0.000598 27.7845 m  
0.989736 -0.142907 0.000907 4.9944 m  
-0.000983 -0.000462 0.999999 0.9340 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 3.6 mm

Deviation histogram

Points



Scan '10'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

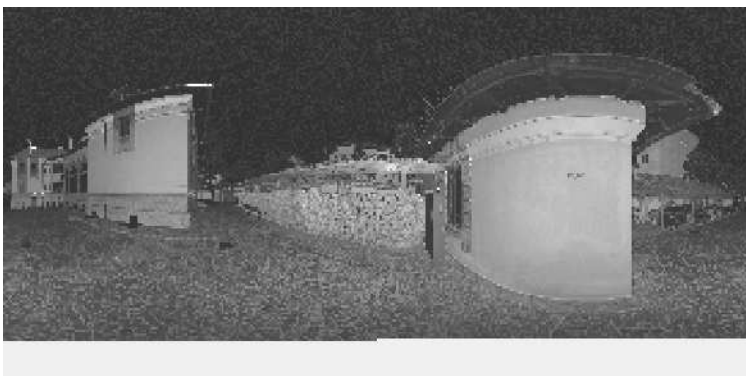
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 10

```
Registration matrix:  
-0.142906 -0.989736 -0.000598 27.7845 m  
0.989736 -0.142907 0.000907 4.9944 m  
-0.000983 -0.000462 0.999999 0.9340 m  
0.000000 0.000000 0.000000 1.0000  
Standard deviation: 3.6 mm  
Scan resolution: High  
Quality: Normal  
Scan position: 10
```

Level system info: dynamic compensator available.



Scan position '100'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

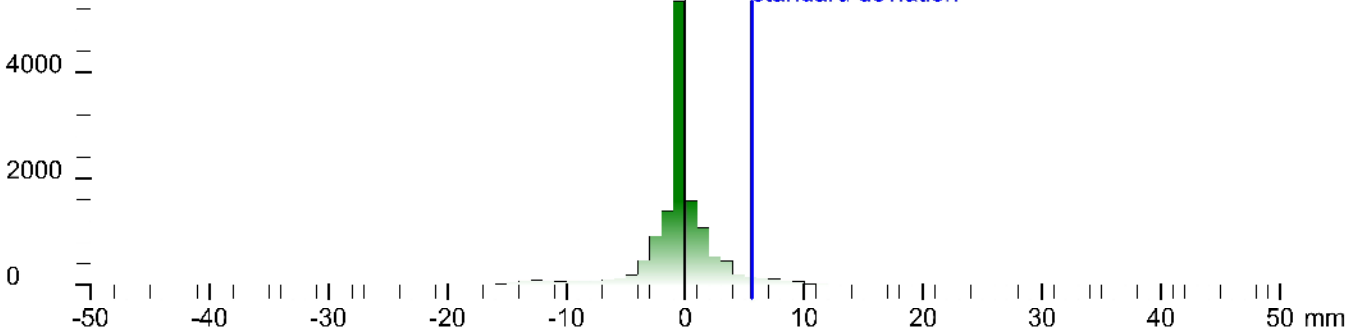
```

-0.635211 -0.772340 0.000132 20.0414 m
0.772340 -0.635210 0.000607 11.1470 m
-0.000385 0.000488 1.000000 -1.7771 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 5.6 mm

Deviation histogram

Points



Scan '100'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```

Scanned on 2019-09-10 10:14:00.000Z by user '...'.
Date: 2019-09-10 10:14:00.000Z
Barcode: 278457-427394-14273765
Rev: 000001
Rev date: 2019-09-10 10:14:00.000Z
Firmware: 9.0.3.6562-0
Operator:
Comment:
Level system info: dynamic compensator available.
    
```



Scan position '102'

Scan position is member of group(s):

Status registration '[10123h] preregistered with cloud to cloud, manually'

Registration matrix:

-0.248382	-0.968661	0.001954	19.7428 m
0.968610	-0.248389	-0.009928	20.7799 m
0.010103	-0.000572	0.999949	-1.4146 m
0.000000	0.000000	0.000000	1.0000

Scan '102'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

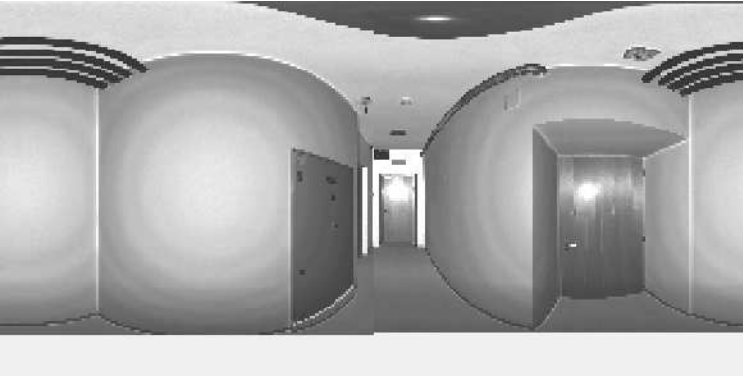
Scan resolution 'High' quality 'Normal'

Metadata Value comment operator

Scan position: 3012443436 34245 34382 10123h preregistered with cloud to cloud, manually' 2024-05-27 14:15:03.774 10123h preregistered with cloud to cloud, manually'

Scanner: Z+F IMAGER 5016 serial number: 5016-0100
Elevation: 3161001.98 -20.7799 m
Ray translation: 1.2305 11 -0.25605 11 -22.7019 m coordinates: 5.0103 m 5.0103 m 1.0001 m
Resolution: 0.0010 0.0010 275.9949 usec/strata: 0.0200 0.0200 15.0000
Operator: operator
Project name position: (0:operator)
0.000 0.000 0.000 2.224
0.000 0.000 0.000 11.430
0.000 0.000 1.000 -84.854
0.000 0.000 0.000 1.000

Level system info: dynamic compensator available.



Scan position '103'

Scan position is member of group(s):

Status registration '[10123h] preregistered with cloud to cloud, manually'

Registration matrix:

```
0.071010 -0.997418 -0.010793 21.6225 m  
0.997477 0.070995 0.001731 21.7507 m  
-0.000960 -0.010889 0.999941 -1.4246 m  
0.000000 0.000000 0.000000 1.0000
```

Scan '103'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Source: path: 'C:\Users\... \AppData\Local\Temp\...'

```
Parameter: 'Distance' parameter: 'distance'  
Parameter: 'Position' 'Position' 'Position'  
Resolution: '0.005' mm  
Max. distance: '4.200' m  
Max. resolution: '0.005' mm  
Max. resolution: '0.005' mm  
Max. resolution: '0.005' mm  
Max. resolution: '0.005' mm
```

Level system info: dynamic compensator available.



Scan position '104'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

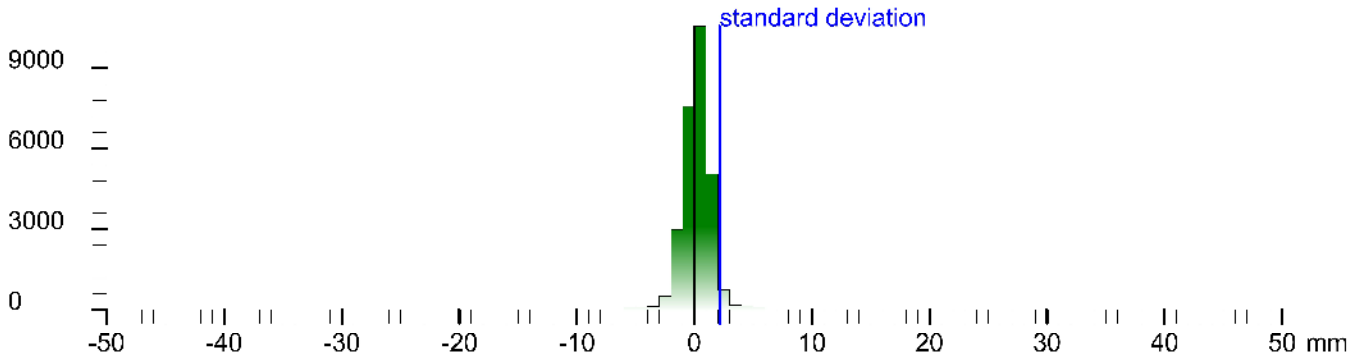
Registration matrix:

```
-0.826679 -0.562562 -0.011330 19.3444 m
0.562586 -0.826740 0.001279 22.7697 m
-0.010086 -0.005316 0.999935 -1.4494 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.2 mm

Deviation histogram

Points



Scan '104'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2019-08-01 10:24:00 (UTC+02:00) Scan ID: 104 Scan Name: 104 Scan Location: 104 Scan Date: 2019-08-01 10:24:00 Scan Time: 00:00:00 Scan Status: Success Scan Size: 104 MB Scan Resolution: High Scan Quality: Normal

```
Registration: 104h [102h] registered with cloud to cloud
Registration matrix:
-0.826679 -0.562562 -0.011330 19.3444 m
0.562586 -0.826740 0.001279 22.7697 m
-0.010086 -0.005316 0.999935 -1.4494 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '105'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

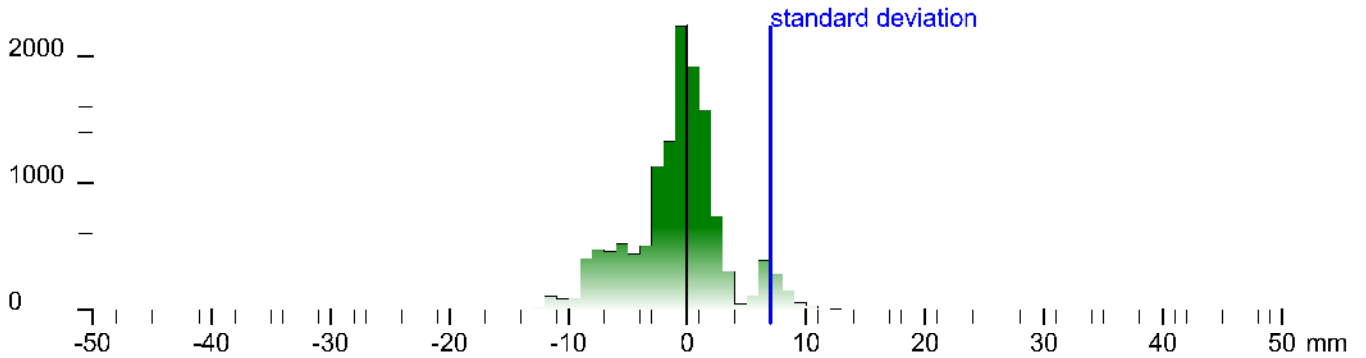
Registration matrix:

```
-0.964513  0.263884  -0.009038  23.6882 m  
-0.263906  -0.964549  0.001222  21.0310 m  
-0.008394  0.003563  0.999959  -1.5064 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 7.0 mm

Deviation histogram

Points



Scan '105'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000000 m x 3.000000 m (12.000000 m²) | Total scan area: 12.000000 m² | Total scan volume: 1.200000 m³ | Total scan weight: 1.200000 t | Total scan length: 12.000000 m | Total scan width: 3.000000 m | Total scan height: 4.000000 m | Total scan depth: 3.000000 m | Total scan radius: 4.000000 m | Total scan diameter: 8.000000 m | Total scan area: 12.000000 m² | Total scan volume: 1.200000 m³ | Total scan weight: 1.200000 t | Total scan length: 12.000000 m | Total scan width: 3.000000 m | Total scan height: 4.000000 m | Total scan depth: 3.000000 m | Total scan radius: 4.000000 m | Total scan diameter: 8.000000 m

```
point: 105 | parameter: registration matrix  
Registration matrix: [0.964513 0.263884 -0.009038 23.6882  
0.263906 -0.964549 0.001222 21.0310  
0.008394 -0.003563 -0.999959 1.5064  
0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



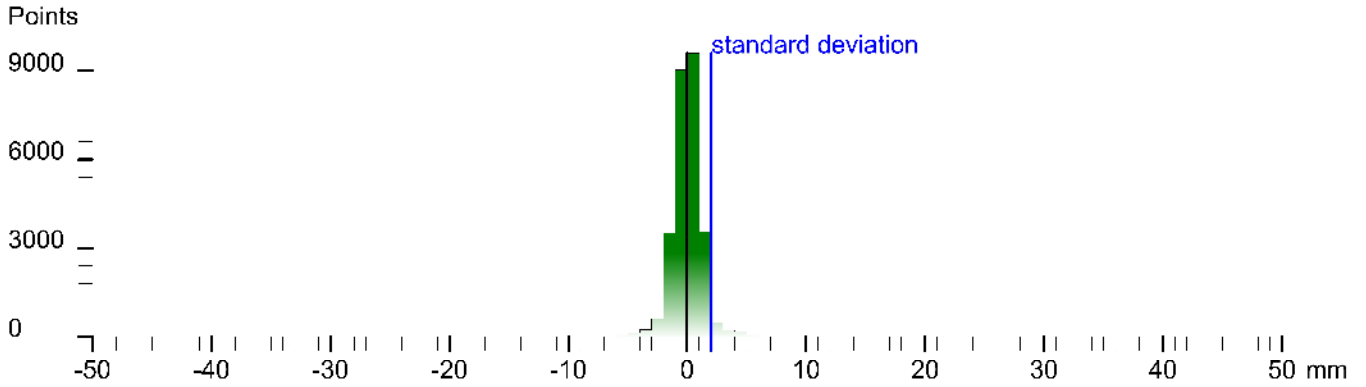
Scan position '106'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

-0.175854	-0.984373	-0.009381	25.0628	m
0.984414	-0.175873	0.001235	22.8274	m
-0.002866	-0.009017	0.999956	-1.5059	m
0.000000	0.000000	0.000000	1.0000	

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram



Scan '106'

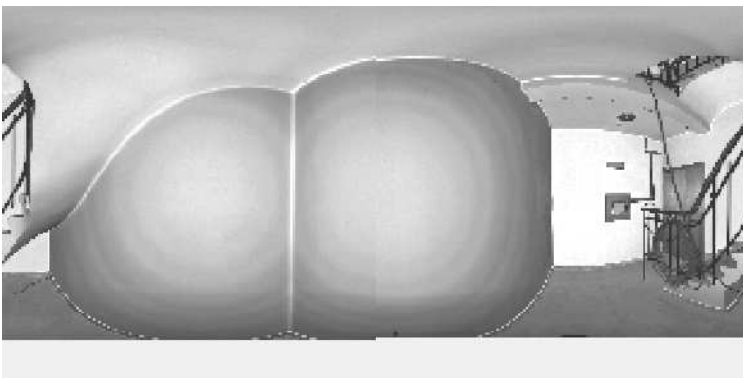
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned on: 2024-09-23 14:04:00 (UTC)
Scan ID: 106
Registration matrix:
-0.175854 -0.984373 -0.009381 25.0628 m
0.984414 -0.175873 0.001235 22.8274 m
-0.002866 -0.009017 0.999956 -1.5059 m
0.000000 0.000000 0.000000 1.0000
Standard deviation: 2.0 mm
Metadata:
comment:
operator:
  
```

Level system info: dynamic compensator available.



Scan position '107'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

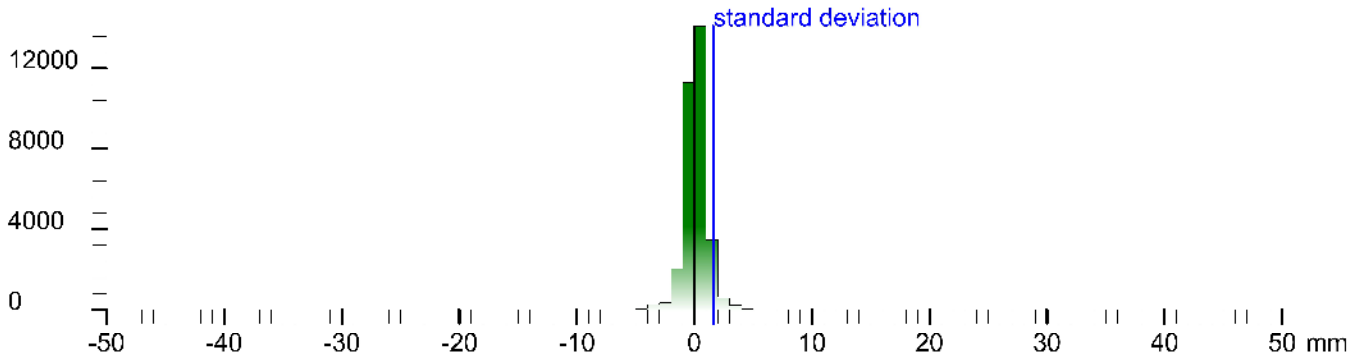
Registration matrix:

```
-0.591414 -0.806306 -0.010116 23.5766 m
0.806345 -0.591448 0.000367 23.2811 m
-0.006279 -0.007940 0.999949 -0.1197 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '107'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

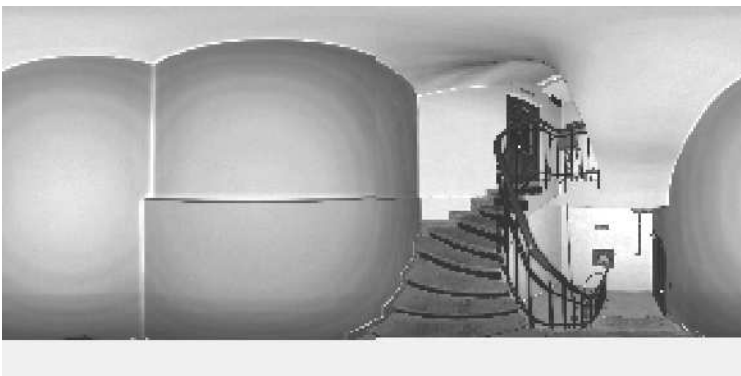
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan area: 4.000000 m x 3.000000 m (12.000000 m²) Scan resolution: 0.250000 mm (0.250000 mm) Scan quality: Normal Scan resolution: 0.250000 mm (0.250000 mm) Scan quality: Normal

```
Registration: 107h -> 102h (translation recorded)
Error matrix: 0.591414 0.806306 -0.010116 23.5766 m
0.806345 -0.591448 0.000367 23.2811 m
-0.006279 -0.007940 0.999949 -0.1197 m
0.000000 0.000000 0.000000 1.000000
operator:
FH data profile: 0.000000
0.749 0.658 0.000 8.475
0.000 0.000 0.000 1.408
0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000
```

Level system info: dynamic compensator available.



Scan position '108'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

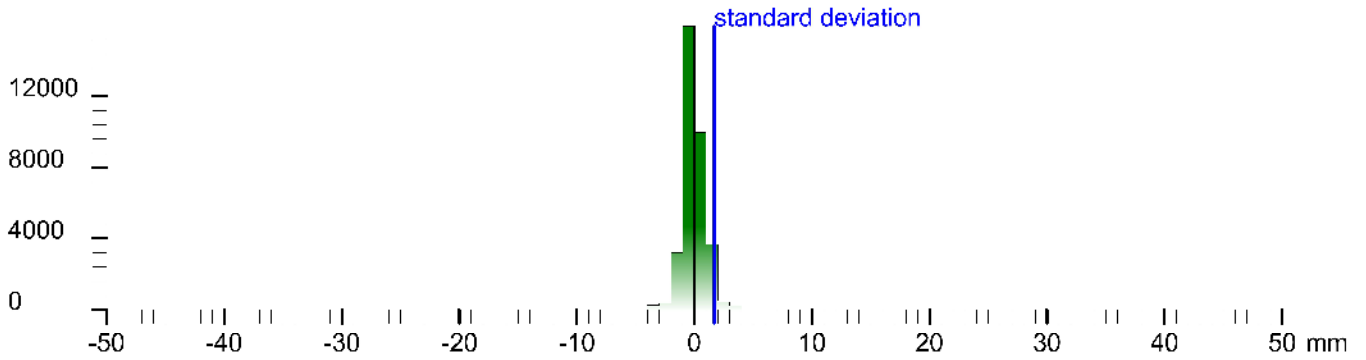
```

0.998881  0.046402  -0.009310  24.8479 m
-0.046389  0.998924  0.001630  23.4030 m
0.009375  -0.001197  0.999956  0.7914 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram

Points



Scan '108'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scan name: '108'
Scan position: '108'
Scan date: '2018-08-15 10:00:00'
Scan time: '10:00:00'
Scan location: '108'
Scan resolution: 'High'
Scan quality: 'Normal'
Scan status: 'Completed'
Scan registration: 'Cloud to Cloud'
Scan registration standard deviation: '1.7 mm'
Scan registration matrix:
0.998881  0.046402  -0.009310  24.8479 m
-0.046389  0.998924  0.001630  23.4030 m
0.009375  -0.001197  0.999956  0.7914 m
0.000000  0.000000  0.000000  1.0000
    
```

Level system info: dynamic compensator available.



Scan position '109'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

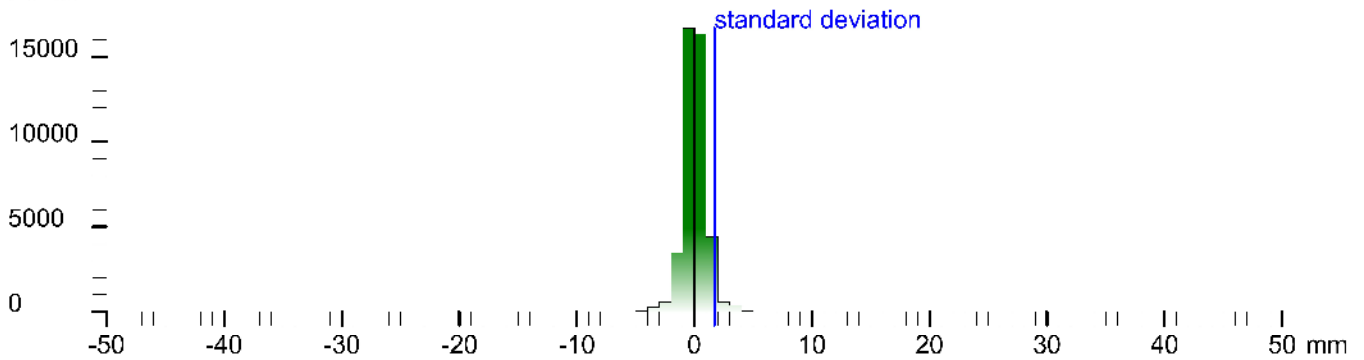
Registration matrix:

```
0.916049  0.400965  -0.009142  25.2106 m
-0.400969  0.916092  0.001472  21.6410 m
0.008965  0.002317  0.999957  1.7526 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram

Points



Scan '109'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 109 [102h] registered with cloud to cloud

```
Registration matrix:
0.916049  0.400965  -0.009142  25.2106 m
-0.400969  0.916092  0.001472  21.6410 m
0.008965  0.002317  0.999957  1.7526 m
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '11'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

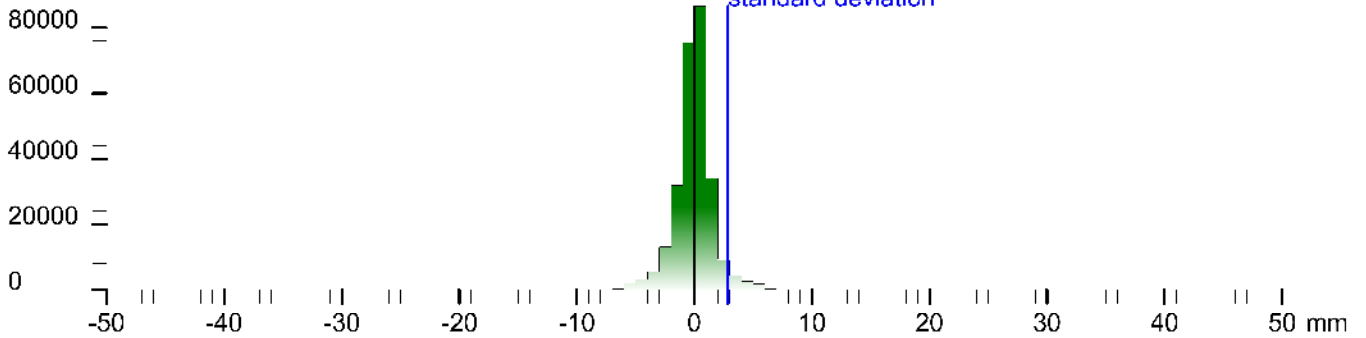
Registration matrix:

```
-0.038896 -0.999243 -0.000469 30.3059 m
 0.999243 -0.038897  0.001066  8.8726 m
-0.001084 -0.000427  0.999999  1.0158 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.9 mm

Deviation histogram

Points



Scan '11'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned area: 4.000000 m x 3.000000 m (x: 0.000000 m, y: 0.000000 m, z: 0.000000 m)
Sensor:
Resolution: 140 µm (horizontal) / 140 µm (vertical)
Error matrix: 0.124000 0.000000 0.000000
New rotation: 42.1631° 47.8971° 6.8581° (roll/pitch/yaw)
New position: 500.000000 0.000000 250.000000 (x/y/z)
Registration:
Reference: 0.000000 0.000000 0.000000
Scale: 0.000000 0.000000 0.000000
Level system info: dynamic compensator available.
```



Scan position '110'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

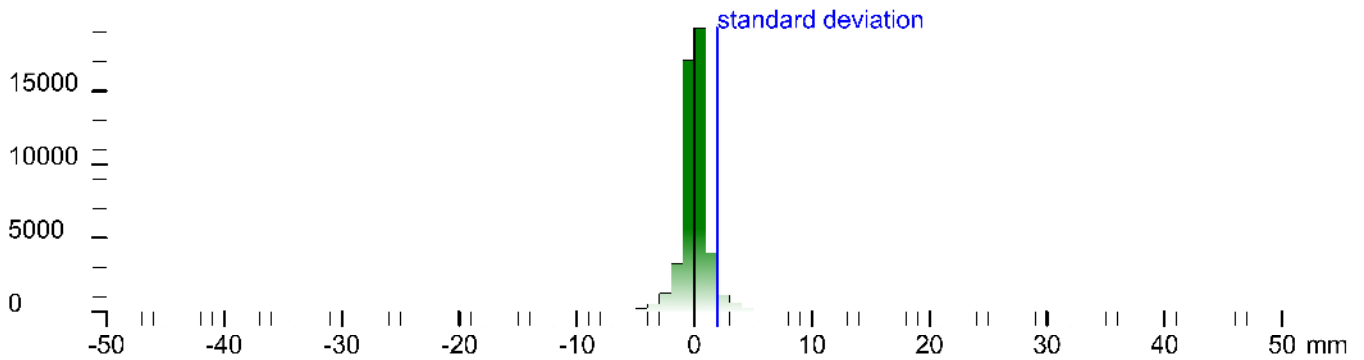
Registration matrix:

```
0.923983 0.382330 -0.009053 23.5578 m
-0.382333 0.924025 0.001465 21.0881 m
0.008925 0.002107 0.999958 1.7369 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '110'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

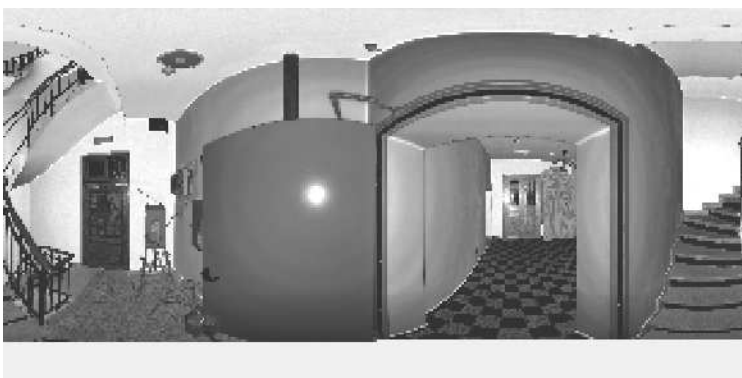
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.004584 x 0.024416 m (width x height) | Top plane: 110.000000 m | Bottom plane: 110.000000 m | Volume: 0.000000 m³ | Area: 0.097456 m² | Perimeter: 0.040960 m | Scan date: 2016-08-18 10:00:00

```
Registration: 1087 | Parameter: transition: recorded
Error matrix: 0.923983 0.382330 -0.009053 23.5578 m
New translation: 1.4765 m | 1.6992 m | 21.2042 m | Accuracy: 0.232 m | 0.232 m | 0.1001 m
New rotation: 0.0000 0.0000 0.0000 | Translation: 0.0000 0.0000 0.0000
Operator:
FH-Info per Hier: 0.000000
0.216 0.270 0.000 8.684
0.250 0.250 0.000 16.212
0.000 0.000 0.000 46.210
0.000 0.000 0.000 1.000
```

Level system info: dynamic compensator available.



Scan position '111'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

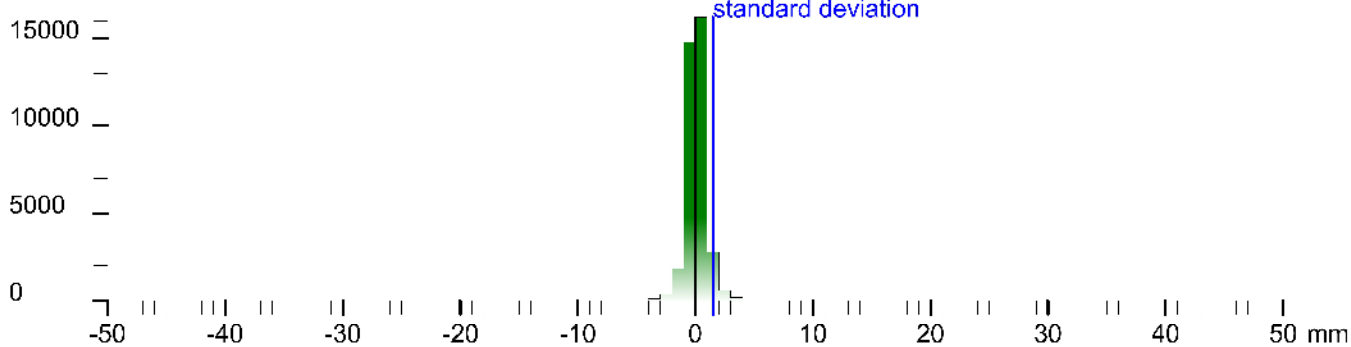
Registration matrix:

```
0.997416  0.071222  -0.009549  23.5180 m
-0.071210  0.997462  0.001618  23.2692 m
0.009639  -0.000933  0.999954  2.9999 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram

Points



Scan '111'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

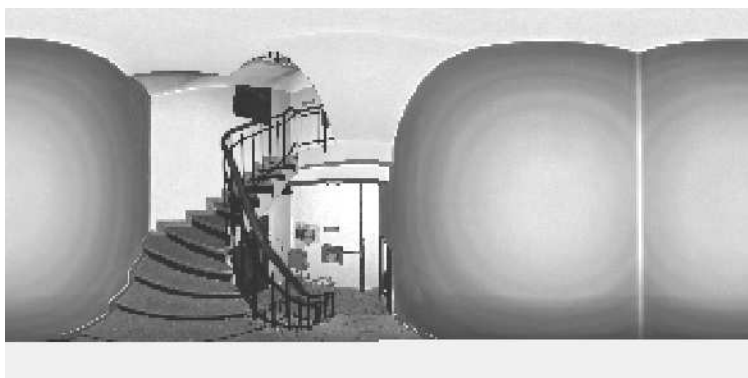
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned at 2018-01-23 10:00:00.000 on a Z+F Imager 5016 with a resolution of 0.5 mm and a scan range of 20 m. The scan was performed in a room with a temperature of 20°C and a humidity of 50%.

```
Registration: 100% (no manual intervention required)
Base station: 216466 ECH-18 4034 m
New station: 415227 -12597 m 21106 m accuracy: 72*10 m / 3410 m 0.0030 m
New station: 5016-0100-018-018 accuracy: 0.0002 0.0002 15.0.0.0
operator:
FH-Info perlier (Dresden)
0288 0154 0020 7737
0284 0288 0000 16038
0284 0288 0000 49715
0284 0288 0000 1000
```

Level system info: dynamic compensator available.



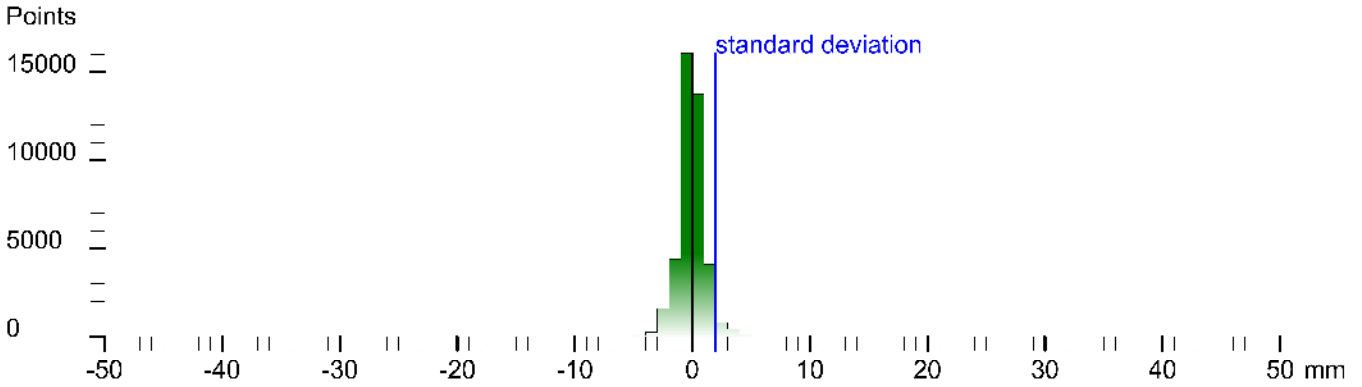
Scan position '115'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

0.317706	-0.948145	-0.009331	23.5394 m
0.948189	0.317709	0.001199	23.2466 m
0.001828	-0.009227	0.999956	6.4600 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram



Scan '115'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scan area: 4.004386 m (12.4651 ft) x 11.0115 m (35.7876 ft)
Scan area: 44.0895 m² (136.2124 ft²)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
Scan resolution: 0.200000 mm (0.007874 in)
```

Level system info: dynamic compensator available.



Scan position '116'

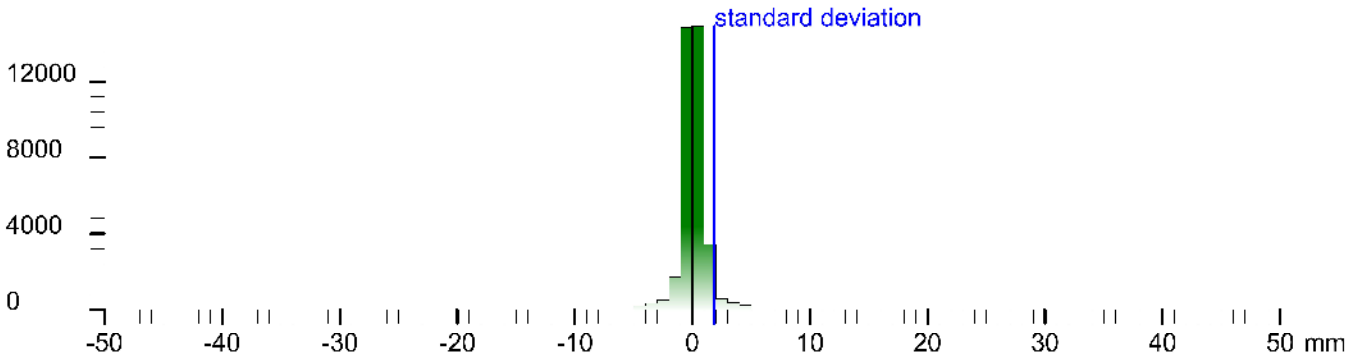
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
0.985634 0.168722 -0.007849 25.1461 m
-0.168711 0.985665 0.002062 23.4338 m
0.008084 -0.000709 0.999967 7.2417 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



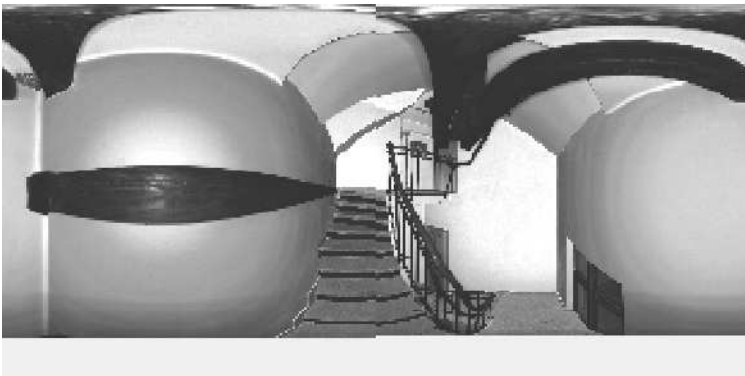
Scan '116'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2018-08-02 11:54:11 AM (UTC) by: [102h] registered with cloud to cloud
Sensor:
  position: 108711 m (horizontal translation recorded)
  Base rotation: 216728 deg (-14.7037 m)
  rev. rotation: 52065 m (2.6-8.2 m) 51999 m (accuracy: 7.2438 m / 2438 m / 1.001)
  rev. rotation: 52065 m (2.6-8.2 m) 51999 m (accuracy: 7.2438 m / 2438 m / 1.001)
  registration:
    FH: 0.000000
    LH: 0.000000
    RH: 0.000000
    SH: 0.000000
    TH: 0.000000
    UH: 0.000000
    VH: 0.000000
```

Level system info: dynamic compensator available.



Scan position '117'

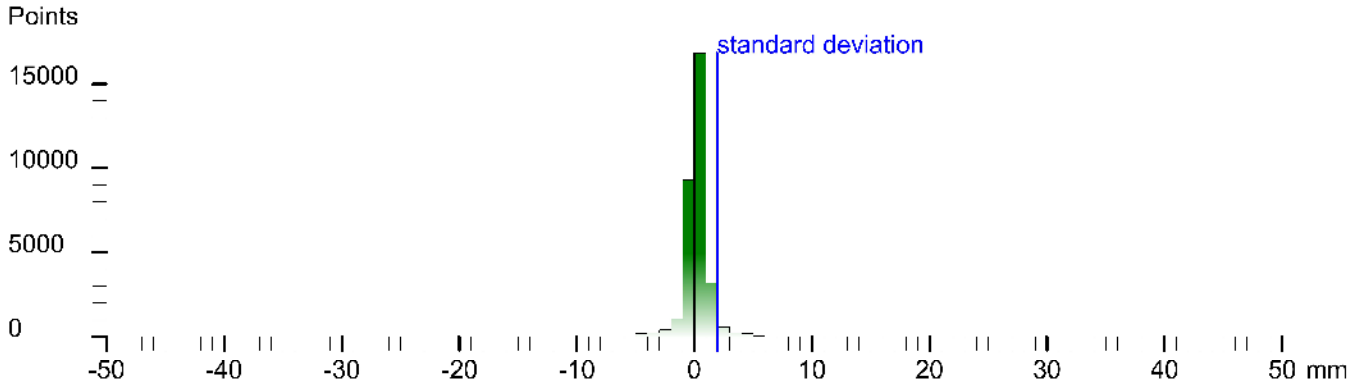
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.837083  0.547030  -0.007256  25.1871 m
-0.547034  0.837111  0.001652  21.5578 m
0.006977  0.002586  0.999973  8.5273 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram



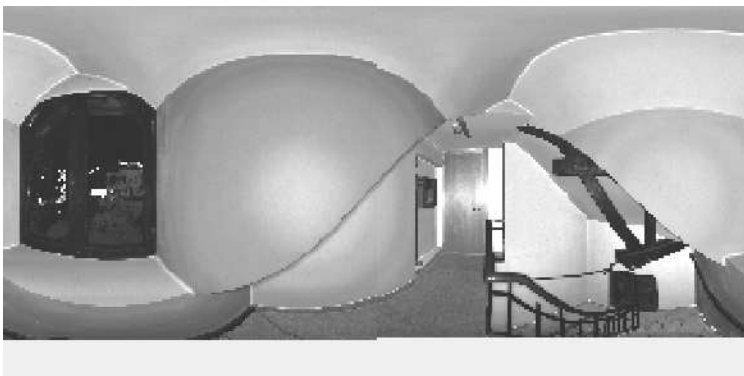
Scan '117'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scan position: 102h registered with cloud to cloud
Registration matrix:
0.837083  0.547030  -0.007256  25.1871 m
-0.547034  0.837111  0.001652  21.5578 m
0.006977  0.002586  0.999973  8.5273 m
0.000000  0.000000  0.000000  1.0000
Standard deviation: 1.9 mm
Level system info: dynamic compensator available.
    
```



Scan position '118'

Scan position is member of group(s):

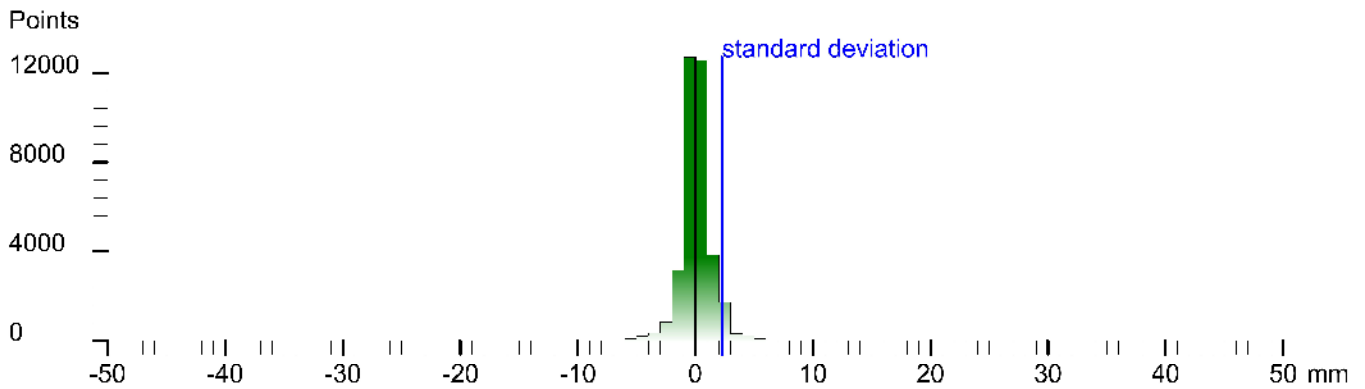
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.968966  0.247073  -0.007936  23.4810 m
-0.247085  -0.968996  0.000663  21.0159 m
-0.007525  0.002604  0.999969  8.8607 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.3 mm

Deviation histogram



Scan '118'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 118 (102h) registered with cloud to cloud. Status registration: [102h] registered with cloud to cloud. Registration matrix: [-0.968966 0.247073 -0.007936 23.4810 m; -0.247085 -0.968996 0.000663 21.0159 m; -0.007525 0.002604 0.999969 8.8607 m; 0.000000 0.000000 0.000000 1.0000]. Standard deviation: 2.3 mm.

```
Registration matrix: [-0.968966 0.247073 -0.007936 23.4810 m; -0.247085 -0.968996 0.000663 21.0159 m; -0.007525 0.002604 0.999969 8.8607 m; 0.000000 0.000000 0.000000 1.0000]
Standard deviation: 2.3 mm
```

Level system info: dynamic compensator available.



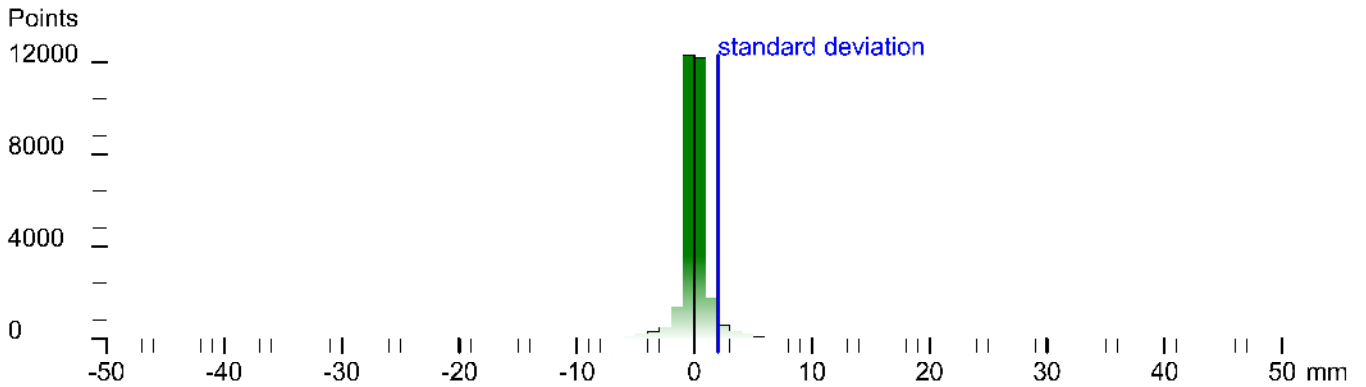
Scan position '119'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.179865 -0.983665 -0.007477 22.9613 m
 0.983686 -0.179888  0.002469 20.8795 m
-0.003774 -0.006910  0.999969  8.9242 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram



Scan '119'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2023-09-08 10:24:00 (UTC) by [102h] registered with cloud to cloud  

  Scan position: 119  

  Registration matrix:  

  -0.179865 -0.983665 -0.007477 22.9613 m  

  0.983686 -0.179888  0.002469 20.8795 m  

-0.003774 -0.006910  0.999969  8.9242 m  

 0.000000  0.000000  0.000000  1.0000  

  Standard deviation: 2.0 mm  

  Scan resolution: High  

  Scan quality: Normal
```

Level system info: dynamic compensator available.



Scan position '12'

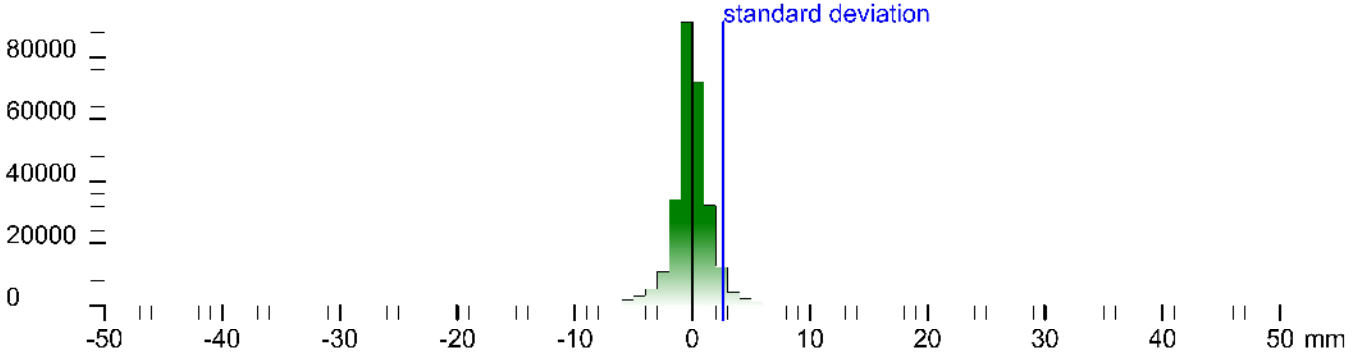
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.616435  -0.787406  -0.000264  29.9298 m
 0.787406  -0.616435   0.000541  13.6841 m
-0.000588   0.000125   1.000000   1.0774 m
 0.000000   0.000000   0.000000   1.0000
```

Result registration cloud to cloud standard deviation: 2.6 mm

Deviation histogram

Points



Scan '12'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata Value

comment	operator
---------	----------

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:
 Registration matrix:
 Deviation histogram:
 Level system info: dynamic compensator available.



Scan position '121'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

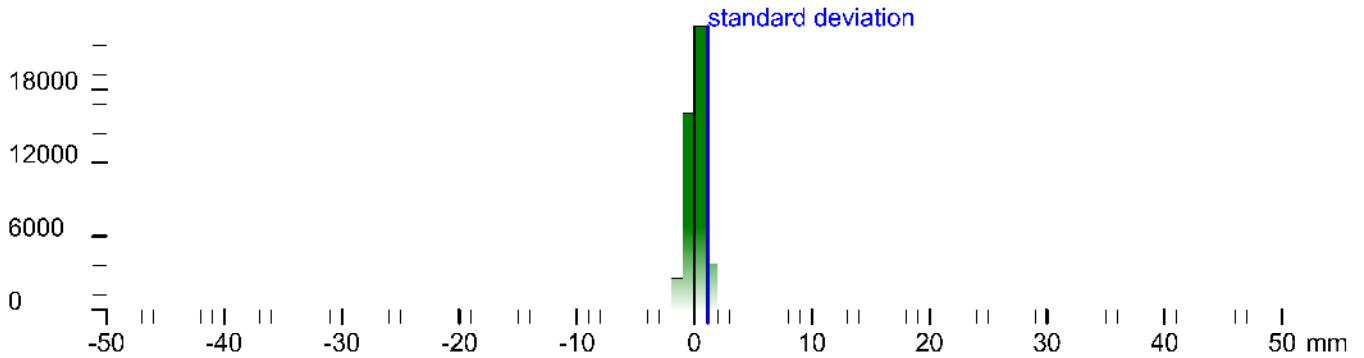
Registration matrix:

```
-0.191811  0.981409  -0.006990  19.5634 m  
-0.981434  -0.191802  0.001907  19.9047 m  
0.000531  0.007226  0.999974  8.8717 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.1 mm

Deviation histogram

Points



Scan '121'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 102h registered with cloud to cloud standard deviation: 1.1 mm

```
Registration matrix:  
-0.191811  0.981409  -0.006990  19.5634 m  
-0.981434  -0.191802  0.001907  19.9047 m  
0.000531  0.007226  0.999974  8.8717 m  
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '122'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
-0.972836 -0.231250 -0.010856 20.6040 m
 0.231023 -0.972767  0.018927 18.6777 m
-0.014937  0.015905  0.999762  8.8881 m
 0.000000  0.000000  0.000000  1.0000
```

Scan '122'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scan file: C:\Users\ADMIN\Documents\122\Scan\122.pcd (name: 122.pcd) (type: 'file') (comment: 'file') (status: 'file') (date: '2024-08-20 10:00:00') (time: '10:00:00') (user: 'ADMIN')

```
Project: 122 - Scanner calibration  

File name: 122_70119_12_7552.pcd  

Ray translation: -1.5635 m -0.732 m -2.7335 m (accuracy: 0.007 m 0.000 m 0.001 m)  

Ray rotation: 0.0000 0.0000 2.7352 (accuracy: 0.0000 0.0000 0.0001)  

Up direction: 0  

Project position (meters):  

 0.75 -0.52 0.00 0.75  

 0.00 -0.25 -0.00 0.75  

 0.00 0.00 -0.00 -0.75  

 0.00 0.00 0.00 0.00
```

Level system info: dynamic compensator available.



Scan position '123'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

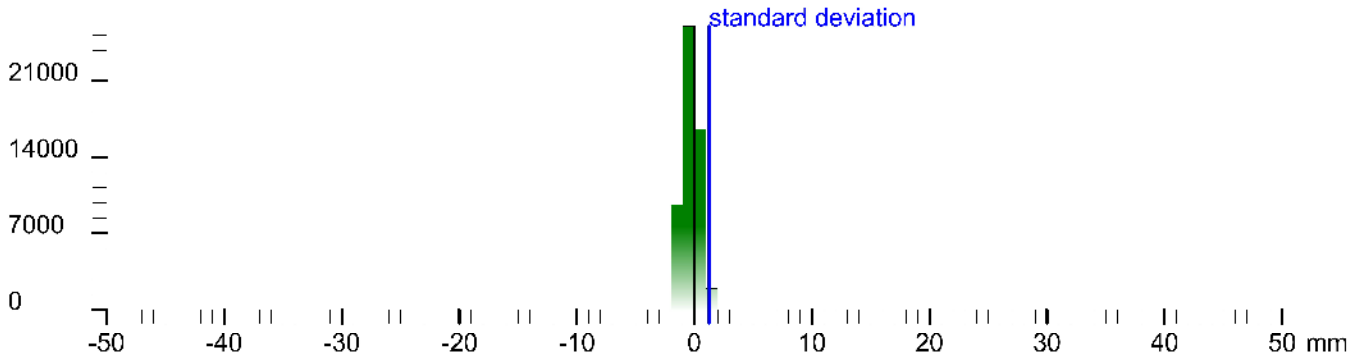
Registration matrix:

```
0.947670 0.319065 -0.011081 24.3956 m
-0.318816 0.947615 0.019682 18.9887 m
0.016780 -0.015119 0.999745 8.9239 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '123'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

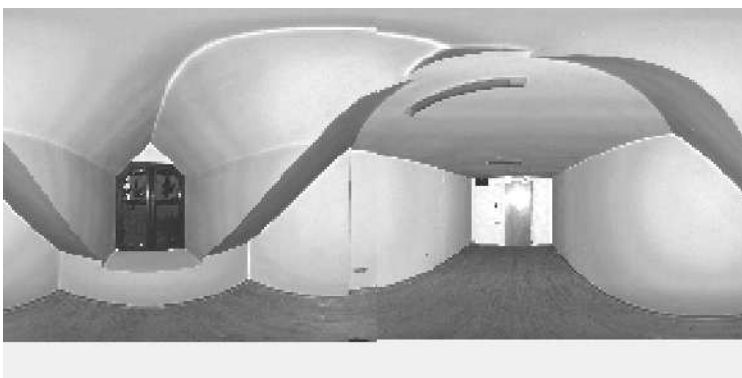
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00 m x 3.00 m (24.00 m²) | Date: 2023-10-27 10:00:00 | Location: ...

```
Registration: 1087 | Transformation recorded
Base station: 014796 | 12.8027 m
New station: 014796 | 12.8027 m | 0.0000 m | 0.0000 m | 0.0000 m | 0.0000 m
Registration: 1087 | Transformation recorded
Base station: 014796 | 12.8027 m
New station: 014796 | 12.8027 m | 0.0000 m | 0.0000 m | 0.0000 m | 0.0000 m
```

Level system info: dynamic compensator available.



Scan position '125'

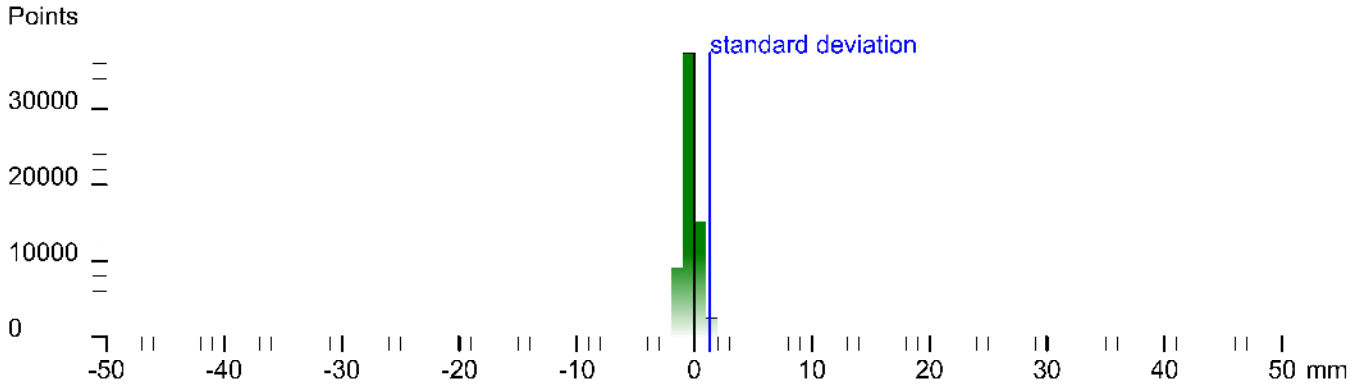
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.285543 0.958293 -0.012002 22.0308 m
-0.958162 0.285720 0.017185 15.9312 m
0.019897 0.006592 0.999781 8.9484 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '125'

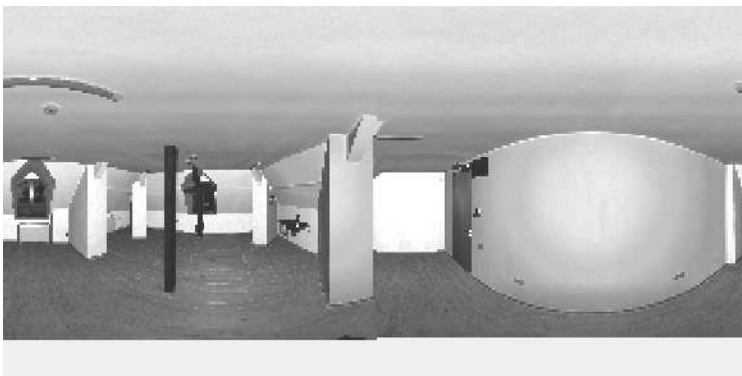
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned on: 2018-06-12 14:02:00 (UTC)
Scanner: Z+F IMAGER 5016
Scan position: 125
Registration matrix:
0.285543 0.958293 -0.012002 22.0308 m
-0.958162 0.285720 0.017185 15.9312 m
0.019897 0.006592 0.999781 8.9484 m
0.000000 0.000000 0.000000 1.0000
Registration: cloud to cloud
Standard deviation: 1.3 mm
Scan resolution: High
Scan quality: Normal
    
```

Level system info: dynamic compensator available.



Scan position '126'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

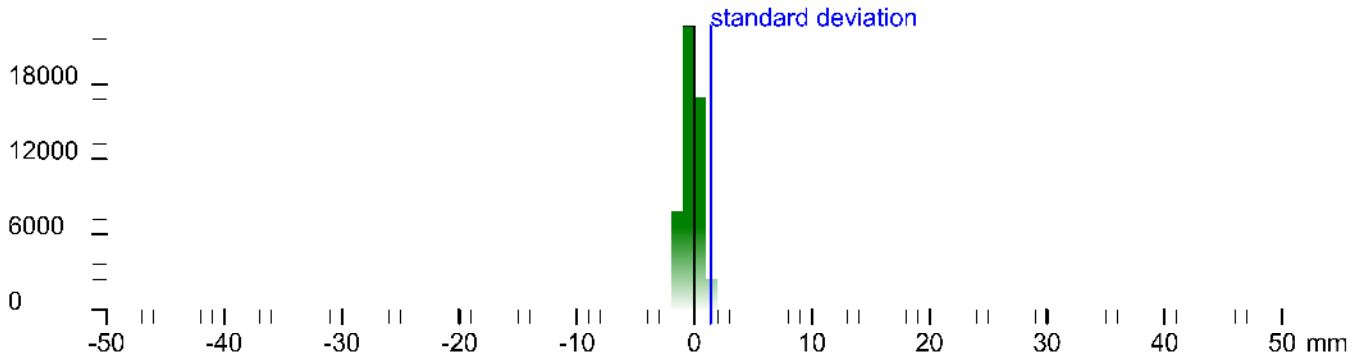
Registration matrix:

```
0.412248 0.910992 -0.012192 22.6388 m
-0.910839 0.412409 0.017214 13.4499 m
0.020710 0.004008 0.999778 8.9993 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '126'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

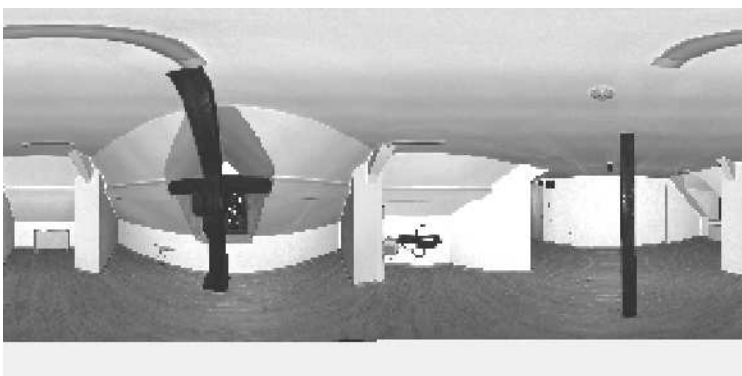
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned area: 0.412248 m x 0.910992 m x -0.012192 m | Scan position: 22.6388 m | Scan resolution: 0.412248 m x 0.910992 m x -0.012192 m | Scan quality: High | Scan status: Registered with cloud to cloud

```
Registration: 108710 | Standard deviation: 1.4 mm
Error matrix: 0.412248 0.910992 -0.012192
New registration: 0.412248 0.910992 -0.012192 | Error: 0.412248 m | 0.910992 m | 0.000000 m
New registration: 0.412248 0.910992 -0.012192 | Error: 0.412248 m | 0.910992 m | 0.000000 m
Registration: 108710 | Standard deviation: 1.4 mm
Error matrix: 0.412248 0.910992 -0.012192
New registration: 0.412248 0.910992 -0.012192 | Error: 0.412248 m | 0.910992 m | 0.000000 m
```

Level system info: dynamic compensator available.



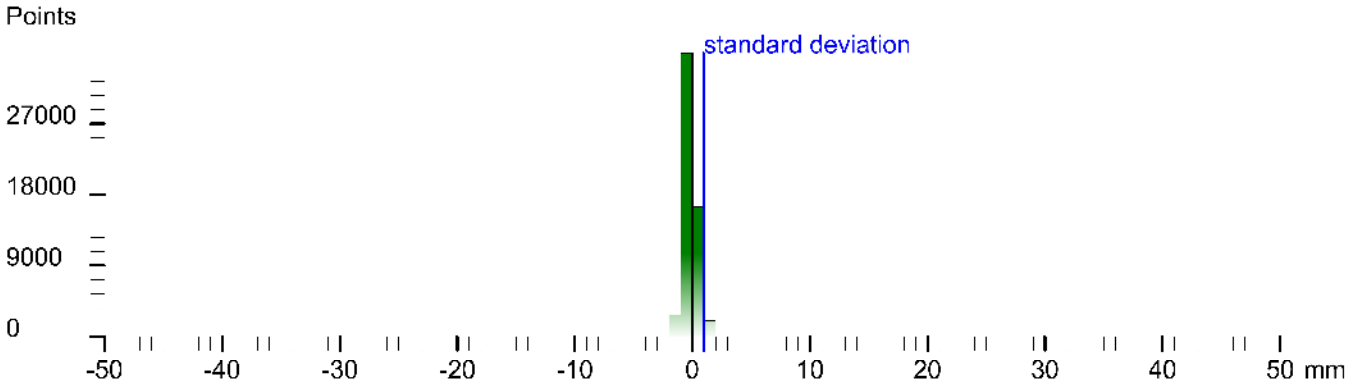
Scan position '129'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.487081 -0.873320 -0.008274 17.7728 m
 0.873345 -0.487107  0.001225 20.2321 m
-0.005099 -0.006629  0.999965  8.8569 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.0 mm

Deviation histogram



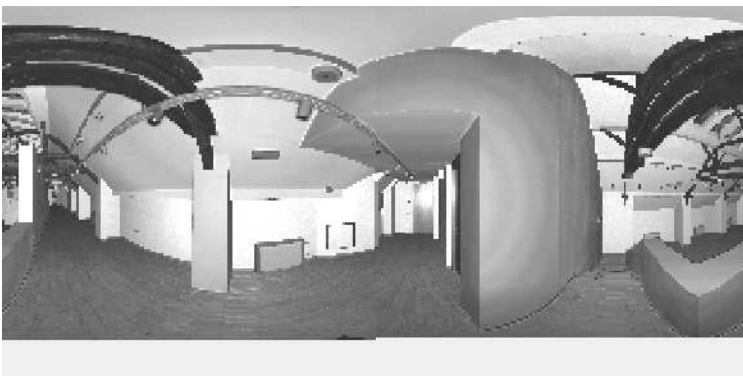
Scan '129'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2023-08-10 10:44:00 (UTC) by Z+F Imager 5016 (Serial: 5016-0100) Firmware: 9.0.3.6562-0
Sensor:
  resolution: 1080 x 1080 (mm)
  Base matrix: [214777 12703 0]
  new rotation: 4.88711 -0.2972 1.411089 -1.9019 m 1.9009 m 1.0001
  new rotation: 0.0000 0.0000 0.289282 0.0000 0.0000 0.0000
  registration:
  IIR: data provider: Z+F Imager
  0.218 -0.000 0.000 11.404
  1.000 0.000 0.000 10.277
  0.000 0.000 1.000 0.000
  0.000 0.000 0.000 1.000
```

Level system info: dynamic compensator available.



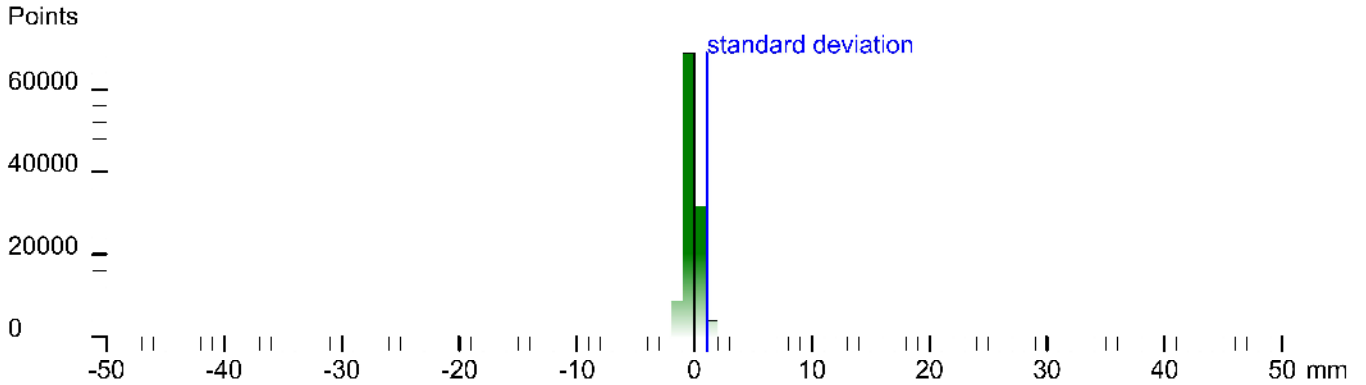
Scan position '130'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

-0.295670	-0.955257	-0.008153	13.8590 m
0.955287	-0.295688	0.001026	20.0150 m
-0.003390	-0.007485	0.999967	8.8208 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.1 mm

Deviation histogram



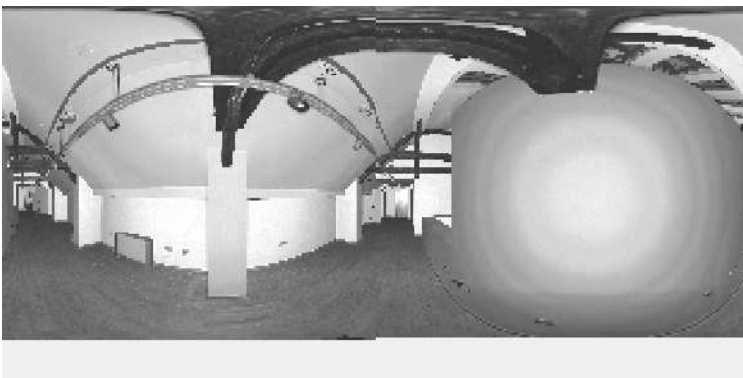
Scan '130'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned at 2012-10-24 10:14:00 UTC by 102h on a Z+F Imager 5016. Scan file: 102h_130_5016_20121024_101400.ctb. Scan area: 10.0 m x 10.0 m. Scan resolution: 0.2 mm. Scan quality: Normal. Scan status: Success. Scan comment: 102h_130_5016_20121024_101400.ctb. Scan operator: 102h. Scan matrix: [0.955287 -0.295688 -0.003390 20.0150; -0.295670 -0.955257 -0.007485 13.8590; -0.003390 -0.007485 0.999967 8.8208; 0.000000 0.000000 0.000000 1.0000]. Scan registration: Cloud to cloud. Scan registration standard deviation: 1.1 mm.
```

Level system info: dynamic compensator available.



Scan position '132'

Scan position is member of group(s):

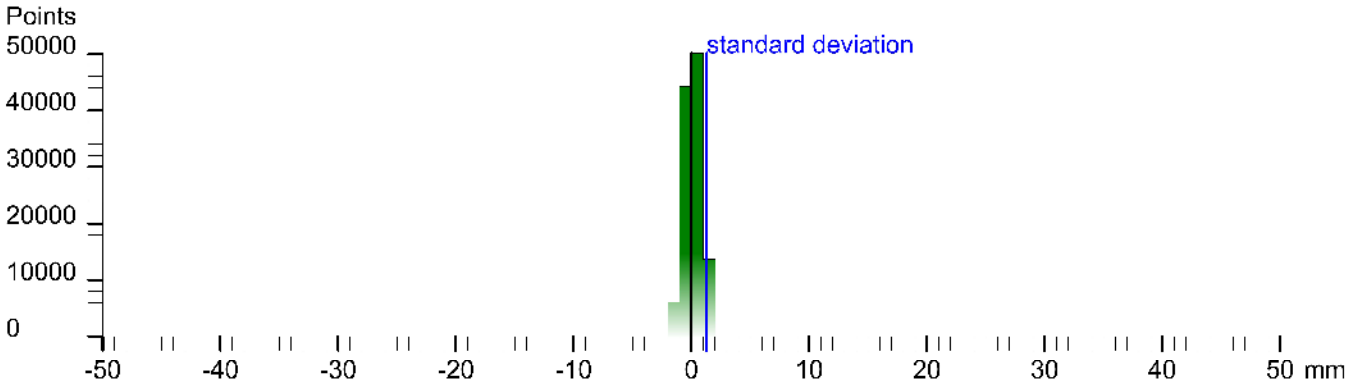
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.889982 -0.455922 -0.008414 6.9801 m  
0.455928 -0.890019 0.001351 19.4266 m  
-0.008104 -0.002633 0.999964 8.7692 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '132'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.01758m x 4.024m (area: 16.174m²) | 100 scans | 17880 points | 1.7880m³ (volume) | 1000 points/m² (density) | 4.01758m x 4.024m (area) | 16.174m² (area) | 17880 points (total) | 1.7880m³ (volume) | 1000 points/m² (density)

```
Registration: 100% | 100% (transition recorded)  
Error matrix: [ 0.14749 0.011269 0 ]  
New translation: 0.1190 m | 1.3618 m | -13.0182 m (rotation: 0.7592 m | 0.0100 m)  
New rotation: 0.0000 0.0000 0.999964 (yaw: 0.0000 0.0000 15.0000)  
Registration: 100%  
EHE data profile: 0.00000  
0.007 -0.029 | 0.010 14.846  
0.001 -0.029 | 0.010 17.848  
0.000 0.000 | 0.010 21.028  
0.000 0.000 | 0.010 0.000
```

Level system info: dynamic compensator available.



Scan position '133'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

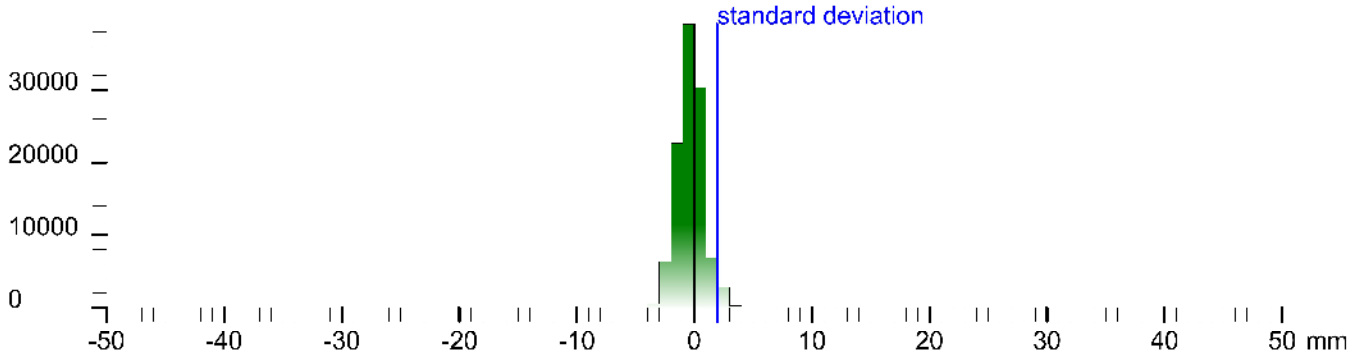
Registration matrix:

0.746500	0.665347	-0.007367	7.4119 m
-0.665357	0.746527	0.001402	14.3089 m
0.006432	0.003855	0.999972	7.4373 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '133'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

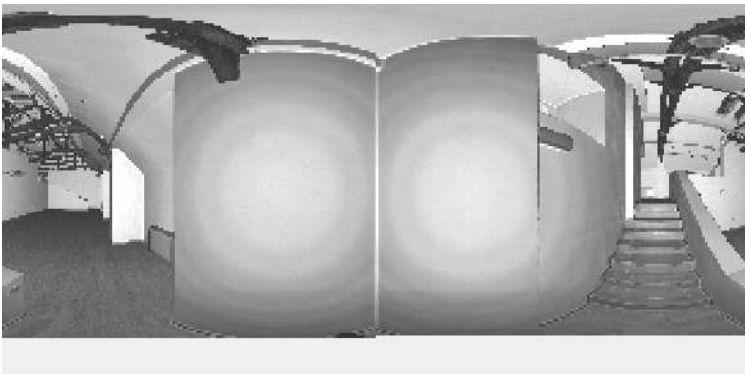
Scan resolution 'High' quality 'Normal'

Metadata	Value
----------	-------

comment operator

Point cloud: 4119758032480 (100%)
Reference: 1087510 (100%)
Base matrix: 0.746500 0.665347 -0.007367 7.4119 m
New rotation matrix: 0.665357 0.746527 0.001402 14.3089 m
New rotation matrix: 0.006432 0.003855 0.999972 7.4373 m
Registration matrix:
0.746500 0.665347 -0.007367 7.4119 m
-0.665357 0.746527 0.001402 14.3089 m
0.006432 0.003855 0.999972 7.4373 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '134'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

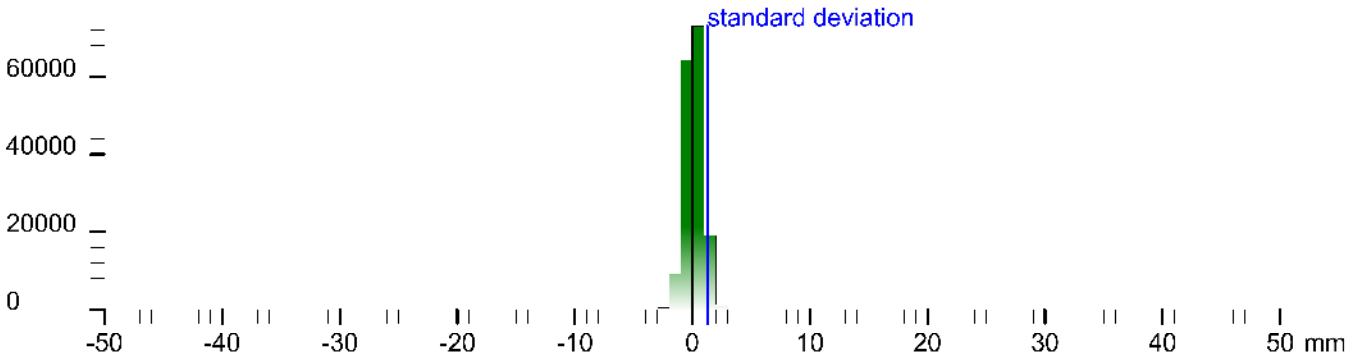
```

-0.045159 -0.998942 -0.008968  8.7119 m
 0.998979 -0.045181  0.002268 17.2731 m
-0.002671 -0.008856  0.999958  7.4379 m
 0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '134'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2024-01-24 10:24:00 (UTC) | Position: 47.5110° N, 10.1110° E, 47.5110° N, 10.1110° E | Scan ID: 134 | Scan Type: Cloud-to-Cloud | Scan Area: 10.00 m x 10.00 m | Scan Resolution: 1.3 mm

```

Registration: 102h | Registration method: cloud-to-cloud
Base matrix: 0.045159 0.998942 -0.008968 8.7119 m
Registration matrix: 0.998979 -0.045181 0.002268 17.2731 m
Registration matrix: -0.002671 -0.008856 0.999958 7.4379 m
Registration matrix: 0.000000 0.000000 0.000000 1.000000
Registration matrix: 0.000000 0.000000 0.000000 1.000000
    
```

Level system info: dynamic compensator available.



Scan position '135'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

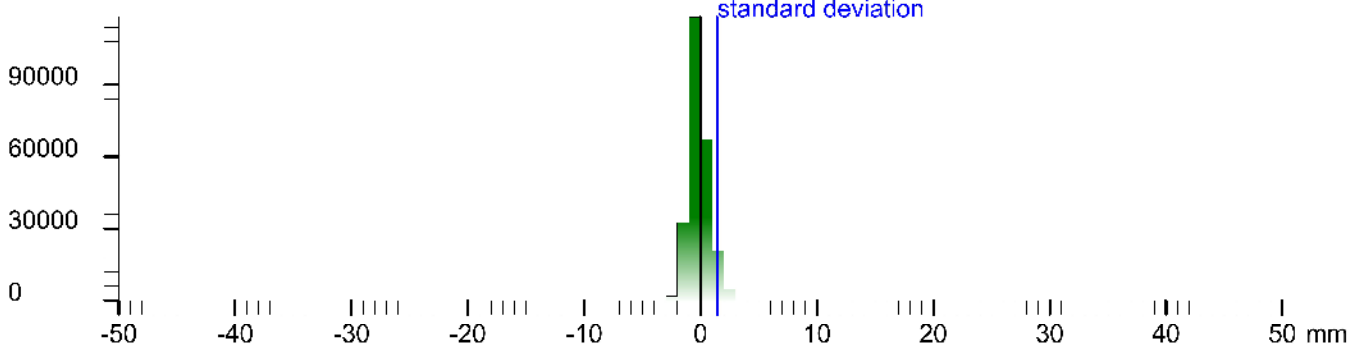
Registration matrix:

-0.460039	0.887870	-0.007356	11.5515 m
-0.887900	-0.460039	0.001884	17.5954 m
-0.001712	0.007398	0.999972	7.4618 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '135'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

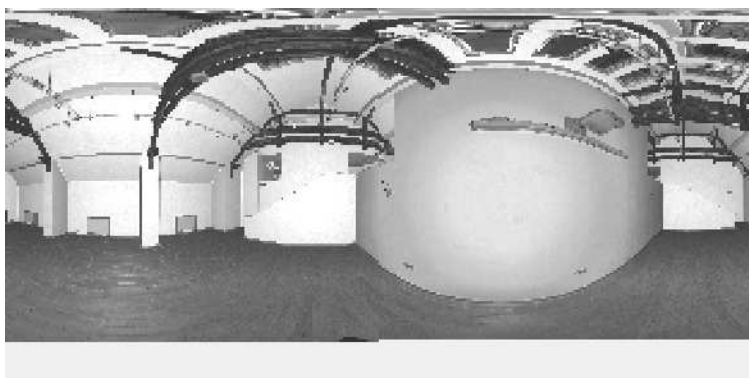
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	
operator	

Scanned with Z+F Imager 5016 on 2016-12-21 10:25:00. Scan parameters: Resolution: 1.4 mm, Quality: Normal, Field of View: 0.6 m, Range: 10 m, Scan Time: 1:28.50. Scan ID: 135

```
Registration: 100% of points are registered
Base rotation: 114.889 deg, -18.883 deg
New rotation: 127.498 deg, -4.100 deg
Base translation: 5.7310 m, 5.7320 m, 11.000 m
New translation: 5.9010 m, 5.9030 m, 11.2830 m
Registration error: 1.4 mm
```

Level system info: dynamic compensator available.



Scan position '136'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

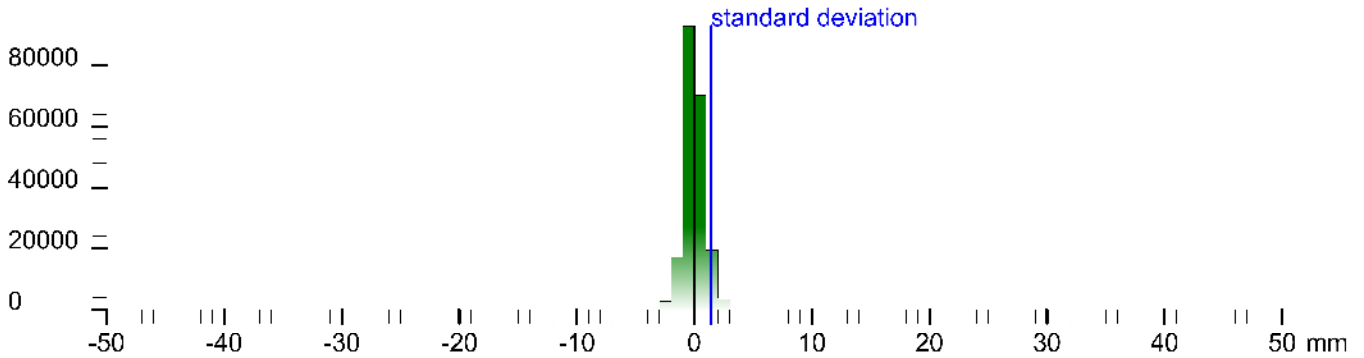
Registration matrix:

-0.150535	0.988579	-0.007408	15.2998 m
-0.988607	-0.150524	0.002003	17.5520 m
0.000865	0.007624	0.999971	7.4945 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '136'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2024-09-10 14:00:00 (UTC) at 102h

Registration: cloud to cloud registration recorded
Base station: 114306 East 12.9499 m
New station: 114306 East 12.9499 m
New station: 114306 East 12.9499 m
Registration matrix:

Registration matrix:
0.999971 0.000865 -0.007408 15.2998
0.0002003 -0.988607 0.150524 17.5520
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '137'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

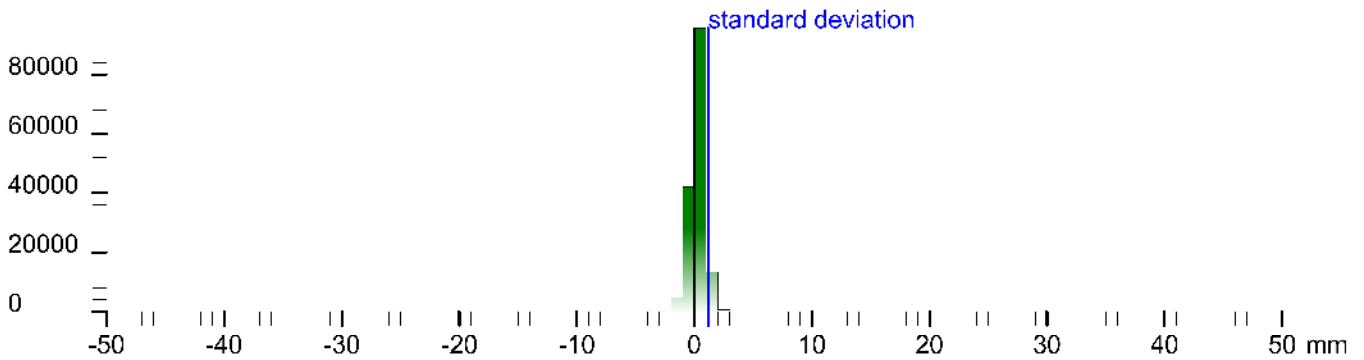
Registration matrix:

0.999655	-0.025193	-0.007638	18.3511 m
0.025216	0.999680	0.002913	15.3702 m
0.007562	-0.003104	0.999967	7.5206 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



Scan '137'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.007580 m x 3.074100 m x 0.100000 m
Scanned area: 12.4500 m x 12.8634 m

Registration matrix: 4.22211 m -0.2733 m -15.9417 m
rotation: 6.7496 m 0.7496 m 0.0000 m
translation: 0.0000 m 0.0000 m 0.0000 m

Registration matrix:

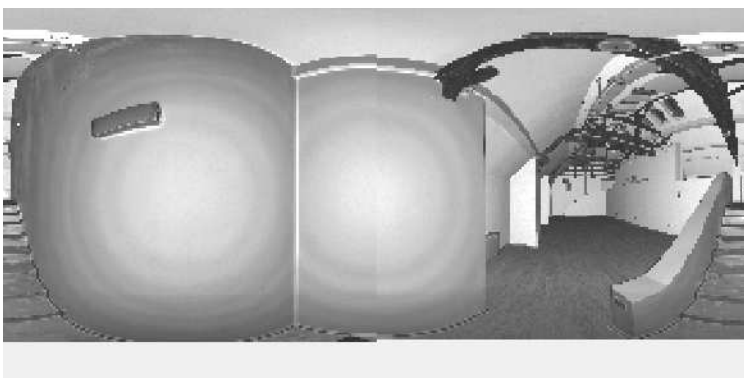
0.999655 -0.025193 -0.007638 18.3511

0.025216 0.999680 0.002913 15.3702

0.007562 -0.003104 0.999967 7.5206

0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



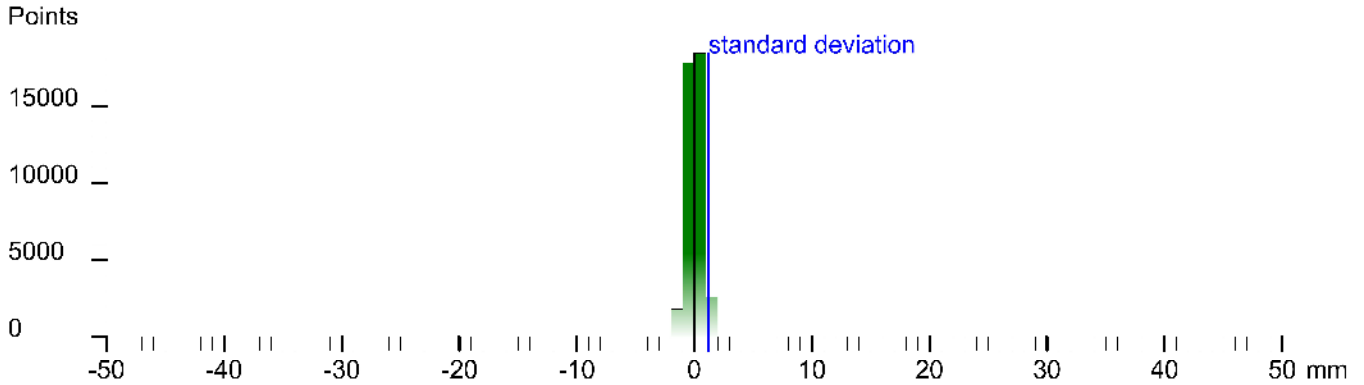
Scan position '138'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

-0.787673	-0.616032	-0.008925	1.7369 m
0.616047	-0.787711	0.001321	19.1126 m
-0.007844	-0.004457	0.999960	8.7318 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram



Scan '138'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan '138' is a member of group(s): 138
Scan registration '[102h] registered with cloud to cloud'
Registration matrix:
-0.787673 -0.616032 -0.008925 1.7369 m
0.616047 -0.787711 0.001321 19.1126 m
-0.007844 -0.004457 0.999960 8.7318 m
0.000000 0.000000 0.000000 1.0000
Standard deviation: 1.2 mm
Points: 17000
Comment:
Operator:

Level system info: dynamic compensator available.



Scan position '139'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

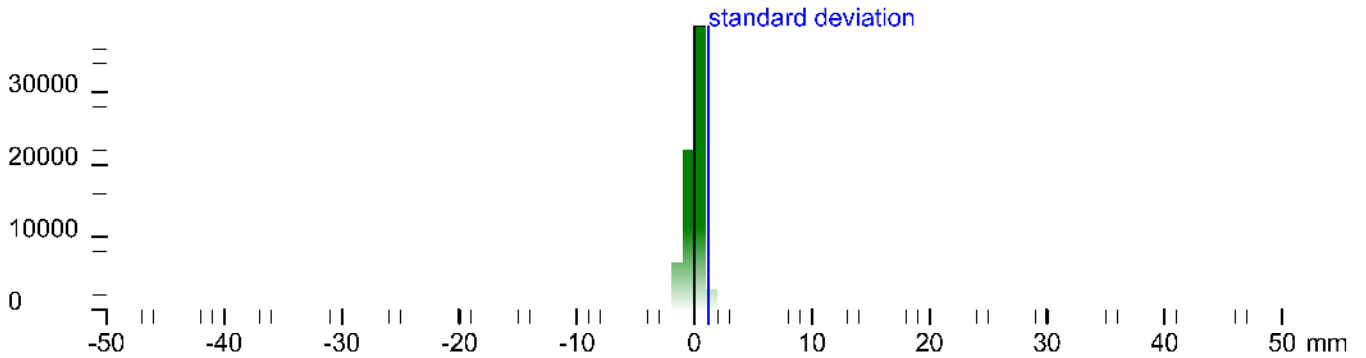
Registration matrix:

-0.392354	0.919783	-0.007826	-1.5508 m
-0.919816	-0.392355	0.001497	17.5305 m
-0.001694	0.007785	0.999969	8.6834 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



Scan '139'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

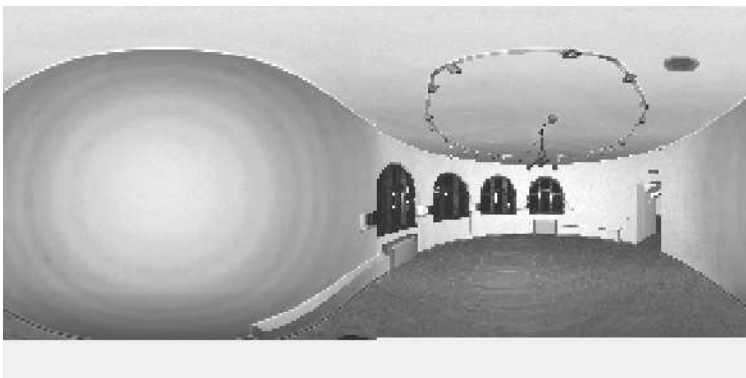
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 100.000000 m x 100.000000 m. Scan resolution: 0.25 mm. Scan quality: Normal. Scan date: 2023-10-10 10:14:14. Scan time: 10:14:14. Scan duration: 10:14:14. Scan status: Success.

Registration matrix: 0.919783 -0.392354 -0.007826 -1.5508 m
-0.392355 0.919816 0.001497 17.5305 m
0.007785 -0.001694 0.999969 8.6834 m
0.000000 0.000000 0.000000 1.000000

Level system info: dynamic compensator available.



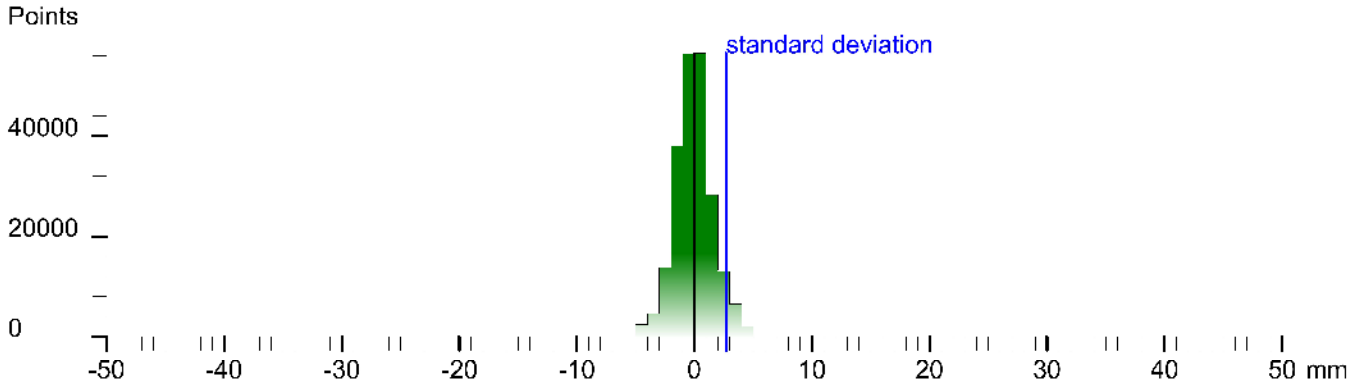
Scan position '14'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

-0.751607	-0.659612	0.000071	29.7909 m
0.659611	-0.751607	0.000711	20,2579 m
-0.000415	0.000581	1.000000	1,1858 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram



Scan '14'

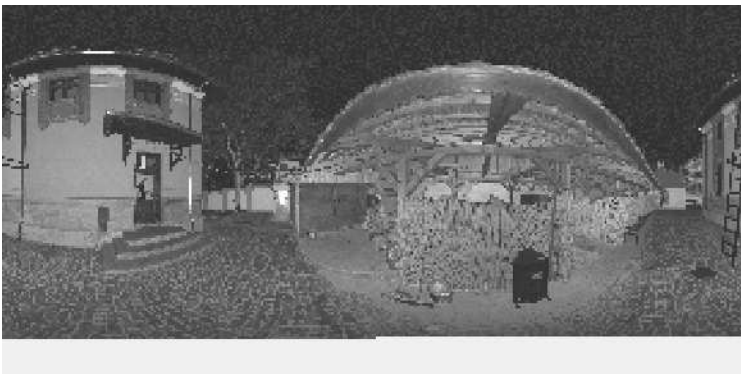
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scan date: 4.11.2018 21:07:18
Scan name: '14'
Scan position: '14'
Scan group: '14'
Scan resolution: 'High'
Scan quality: 'Normal'
Scan registration: 'cloud to cloud'
Scan status: 'registered with cloud to cloud'
Scan matrix:
-0.751607 -0.659612 0.000071 29.7909 m
0.659611 -0.751607 0.000711 20,2579 m
-0.000415 0.000581 1.000000 1,1858 m
0.000000 0.000000 0.000000 1.0000
Scan registration standard deviation: 2.7 mm
Scan resolution: 'High'
Scan quality: 'Normal'
Scan registration: 'cloud to cloud'
Scan status: 'registered with cloud to cloud'
Scan matrix:
-0.751607 -0.659612 0.000071 29.7909 m
0.659611 -0.751607 0.000711 20,2579 m
-0.000415 0.000581 1.000000 1,1858 m
0.000000 0.000000 0.000000 1.0000
    
```

Level system info: dynamic compensator available.



Scan position '140'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

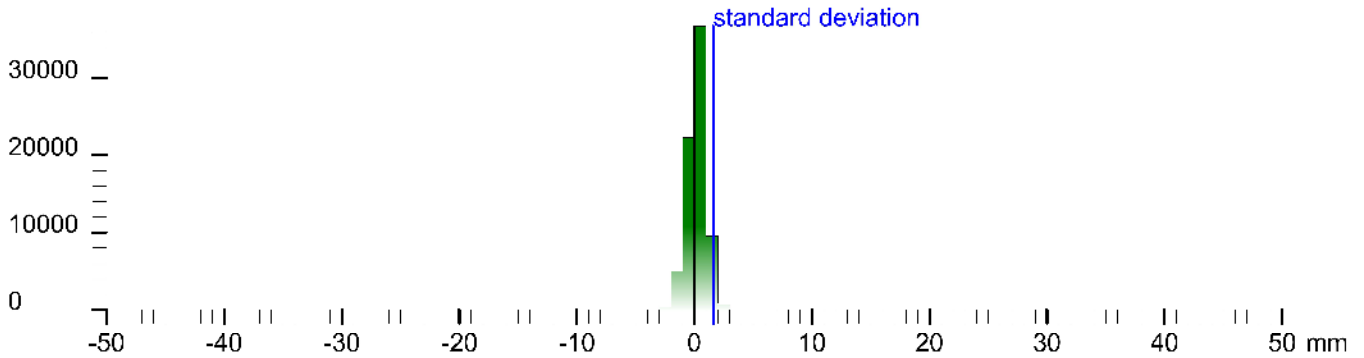
Registration matrix:

```
-0.497290 -0.867539 -0.009159 -1.7924 m
0.867567 -0.497323 0.001669 21.7791 m
-0.006002 -0.007115 0.999957 8.6788 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '140'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00 x 3.00 m (13.45 x 9.84 ft) Scan resolution: 0.25 mm (0.01 in) Scan range: 0.25 m (10.24 in) Scan speed: 1.00 m/s (3.28 ft/s) Scan time: 0.10 s (0.33 s) Scan date: 2023-10-15 10:23:00

Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method
Registration: 100% (cloud-to-cloud) registration method

Level system info: dynamic compensator available.



Scan position '141'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

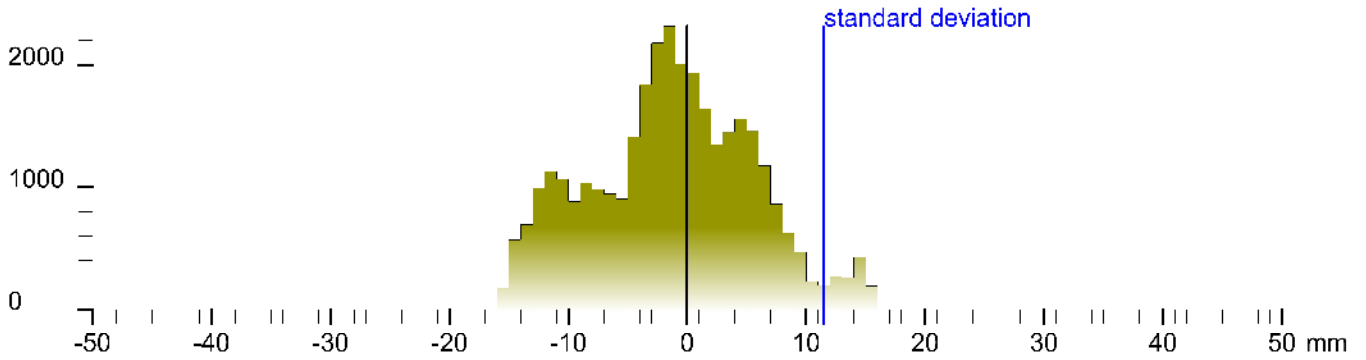
Registration matrix:

```
0.885826 0.463888 -0.011205 4.2703 m
-0.463915 0.885883 0.000236 17.7784 m
0.010035 0.004989 0.999938 8.7471 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 11.5 mm

Deviation histogram

Points



Scan '141'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Series name '141' File path 'D:\3D\3D\102h\141' File size 27772134 Bytes File type 'Binary' File format 'PCD' File creation date '2018-08-14 10:16:55' File modification date '2018-08-14 10:16:55'
Series
Registration: 108713 (parametric registration) recorded!
Error matrix: [0.885826 0.463888 -0.011205 4.2703 m
-0.463915 0.885883 0.000236 17.7784 m
0.010035 0.004989 0.999938 8.7471 m
0.000000 0.000000 0.000000 1.0000]
Operator comment:
PHM data profile: (30x30x30)
[0.006 0.006 0.000 10.00000
0.000 0.000 0.000 0.00000
0.000 0.000 0.000 0.00000
0.000 0.000 0.000 0.00000]
Level system info: dynamic compensator available.
```



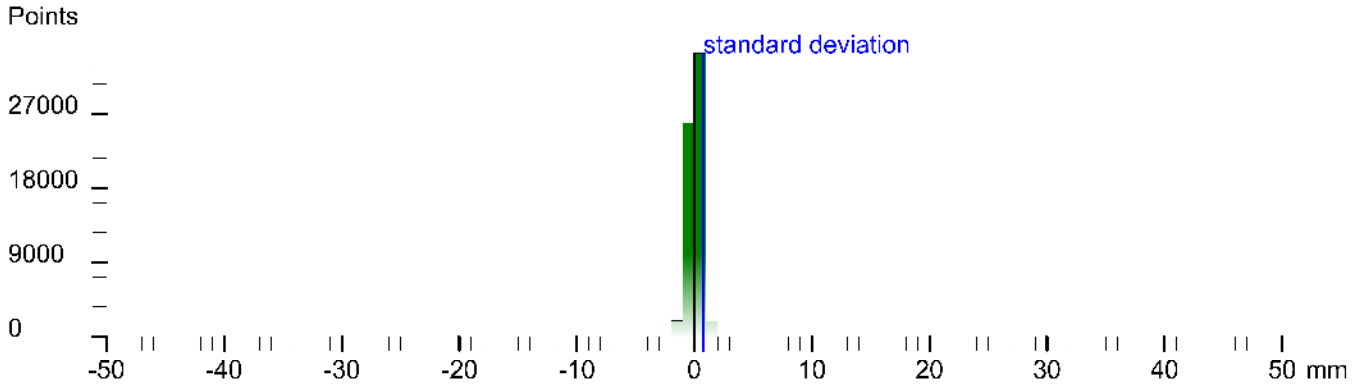
Scan position '142'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.034188  0.999357  -0.011022  4.9677 m  
-0.999418  0.034186  -0.000376  16.4339 m  
0.000001  0.011028  0.999940  8.7570 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:0.8 mm

Deviation histogram



Scan '142'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2023-03-07 10:44:00 (UTC) | 102h scan registration matrix:  
Scan position: 102h | registration matrix:  
Registration matrix:  
0.034188  0.999357  -0.011022  4.9677 m  
-0.999418  0.034186  -0.000376  16.4339 m  
0.000001  0.011028  0.999940  8.7570 m  
0.000000  0.000000  0.000000  1.0000  
Registration matrix:  
0.034188  0.999357  -0.011022  4.9677 m  
-0.999418  0.034186  -0.000376  16.4339 m  
0.000001  0.011028  0.999940  8.7570 m  
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '144'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

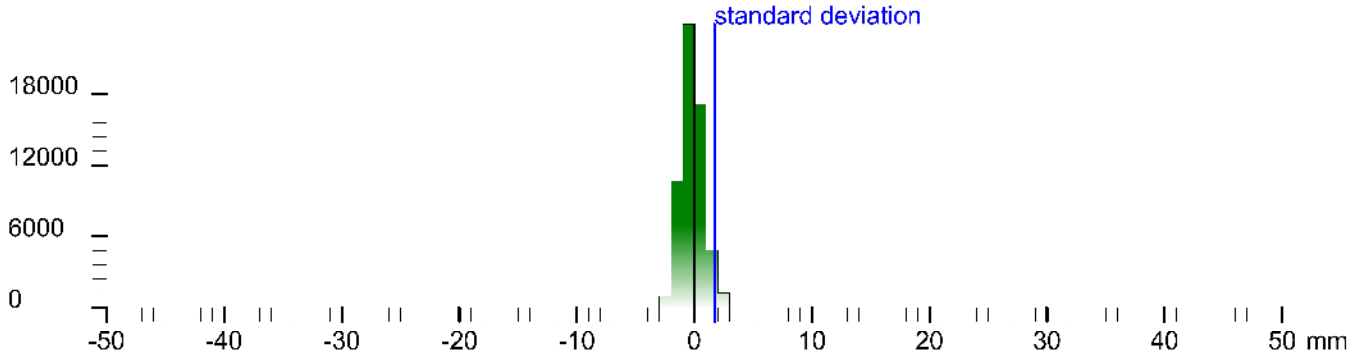
Registration matrix:

```
0.914817 0.403718 -0.011226 6.1717 m  
-0.403740 0.914877 0.000331 15.2047 m  
0.010404 0.004230 0.999937 8.7690 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram

Points



Scan '144'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

Scanned by: 102h [102h] registered with cloud to cloud registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

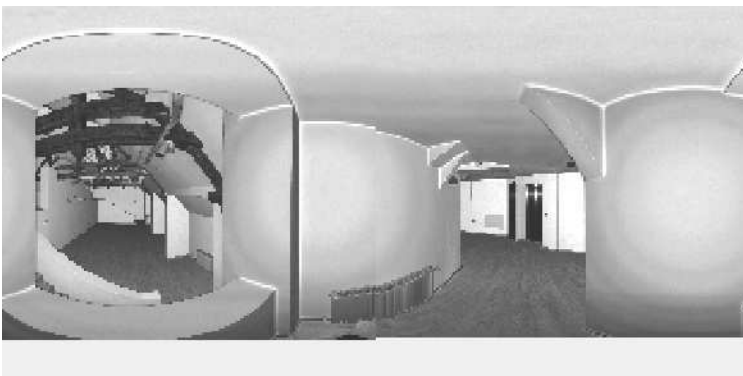
Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Registration matrix: 0.914817 0.403718 -0.011226 6.1717 m

Level system info: dynamic compensator available.



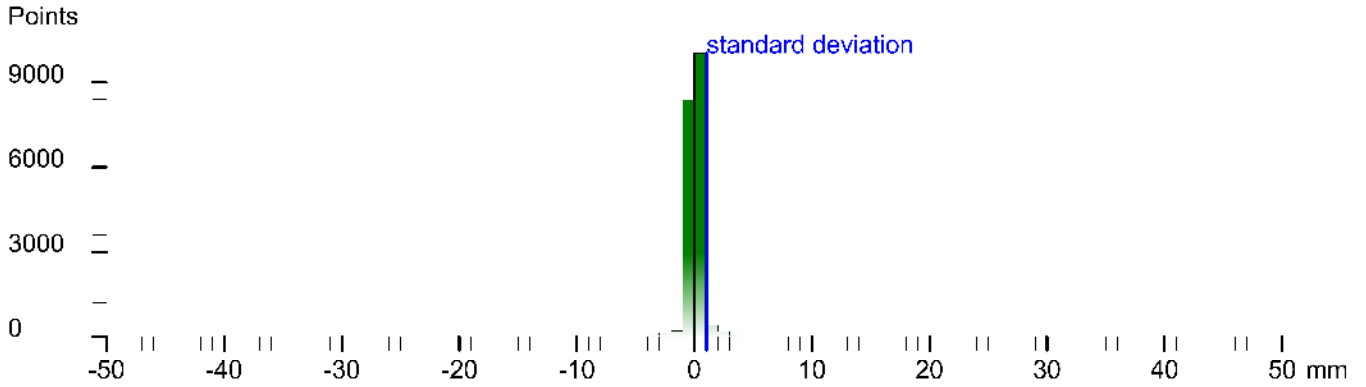
Scan position '145'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.483195 0.875447 -0.010973 2.2516 m  
-0.875503 0.483217 -0.000710 10.5830 m  
0.004680 0.009949 0.999940 8.7278 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.0 mm

Deviation histogram



Scan '145'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2023-06-14 12:14:22 (UTC) Scan ID: 102h Project: ... Metadata: ...  
Sensor:  
Resolution: 1080 x 1080 (mm) Transition recording:  
Base motion: 141464 LSP: 7.59998 m  
Rev. translation: 249811 ° 0.6492 ° 0.82106 m 5.56925 m 6.8593 m 0 0 0 0 m  
Rev. rotation: 0.0000 0.0000 6.96276e-16 0.0000 0.0000 1.51163e-16  
Registration:  
FH: 1600 points (3D points)  
CA: 12 0.811 0.000 0.338  
Result: 0.483195 0.875447 0.999940  
Cloud to cloud: 1.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



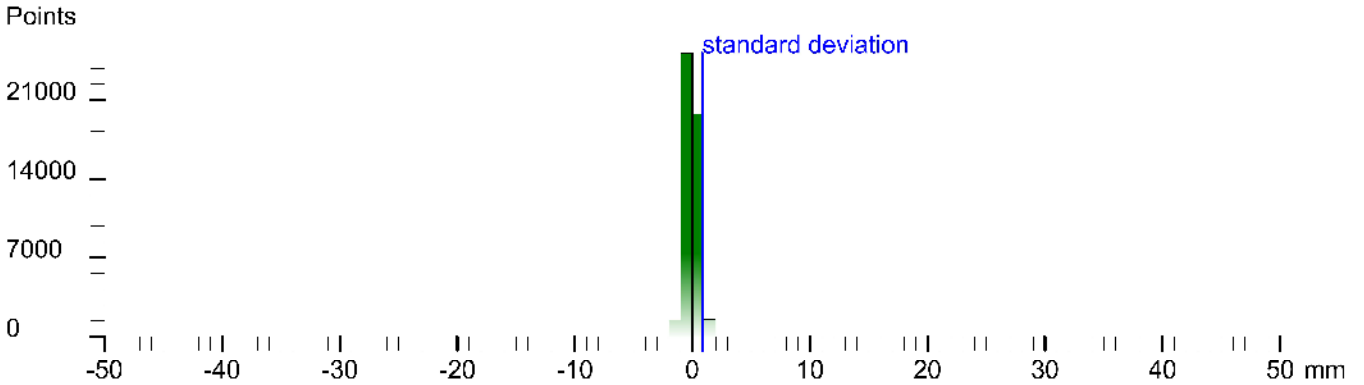
Scan position '148'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.675387  0.737357 -0.012714  0.6199 m  
-0.737411 -0.675448 -0.000641  11.3575 m  
-0.009060  0.008942  0.999919  8.7201 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:0.8 mm

Deviation histogram



Scan '148'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, resolution High, quality Normal, scan date 2015-11-11 14:28:14, scan position 148  
Scanned  
Registration matrix:  
Registration matrix: 0.675387 0.737357 -0.012714 0.6199 m  
Registration matrix: -0.737411 -0.675448 -0.000641 11.3575 m  
Registration matrix: -0.009060 0.008942 0.999919 8.7201 m  
Registration matrix: 0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '15'

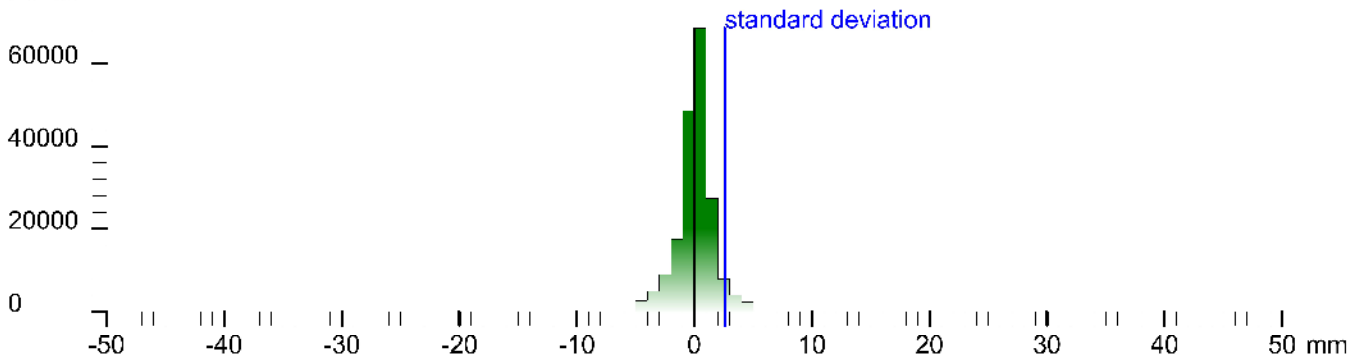
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.010884 -0.999941 -0.000539 29.5776 m  
0.999940 0.010883 0.001340 24.1513 m  
-0.001335 -0.000553 0.999999 1.2608 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.6 mm

Deviation histogram

Points



Scan '15'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned on: 2023-09-28 10:04:10.000  
Sensor:  
Resolution: 140" (35mm) sensor resolution recorded  
Base motion: 0.12466 0.0152624 m  
New rotation: 2.77711 52.842 0.000000 0.000000 0.000000  
New rotation: 0.000000 0.000000 0.000000 0.000000 0.000000  
operator: [redacted]  
GPS: 45.478141 10.000015 55.000000  
Height: 0.000000 m  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000  
Scale: 100.000000
```

Level system info: dynamic compensator available.



Scan position '150'

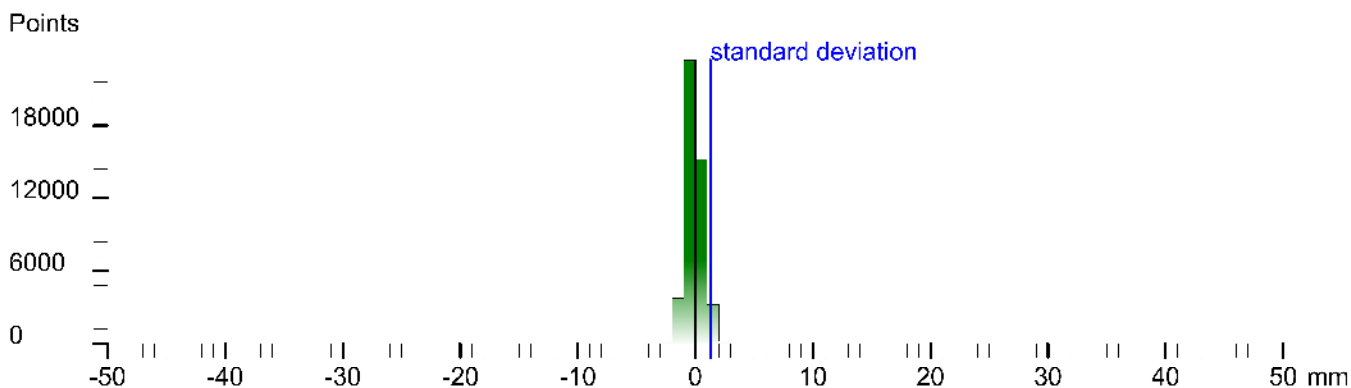
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

-0.710819 -0.703270 -0.012368 -1.6623 m
 0.703331 -0.710866 -0.000891 13.0779 m
-0.008165 -0.009332  0.999924  8.6928 m
 0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '150'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```

Scan name '2024-09-04_10:24:30_301107' scan '[102h] registered with cloud to cloud'
Scene
pointwise registration
Registration matrix:
    Translation: 41.8946 m
    Rotation: 0.00148214 rad, 0.000856229 rad, 0.00151629 rad
    Registration quality: 0.999924
Point cloud position:
    X: 40.7870 m
    Y: 40.7870 m
    Z: 0.0000 m
Level system info: dynamic compensator available.
    
```



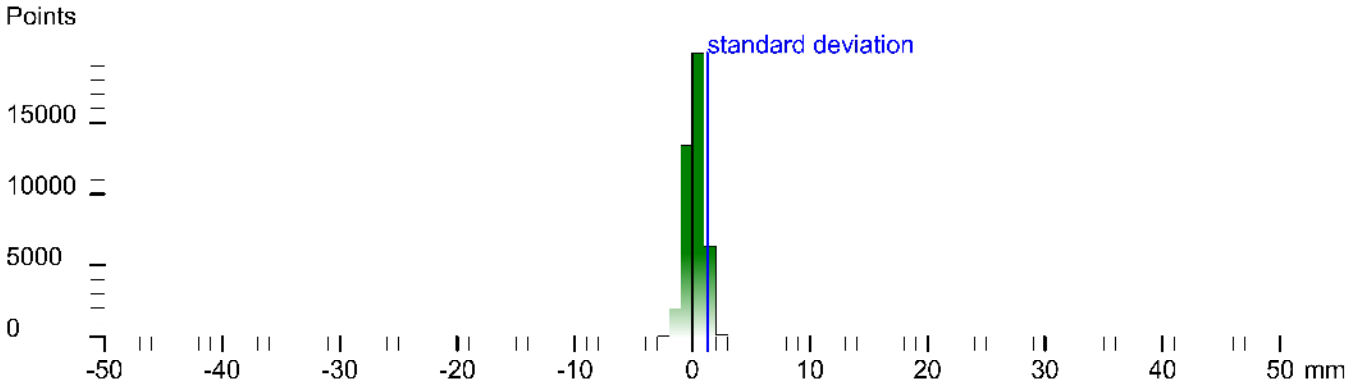
Scan position '151'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.769974  0.637946  -0.013021  -2.1929 m
-0.637985  -0.770051  -0.001466  10.7304 m
-0.010962  0.007178   0.999915   7.3535 m
0.000000  0.000000   0.000000   1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



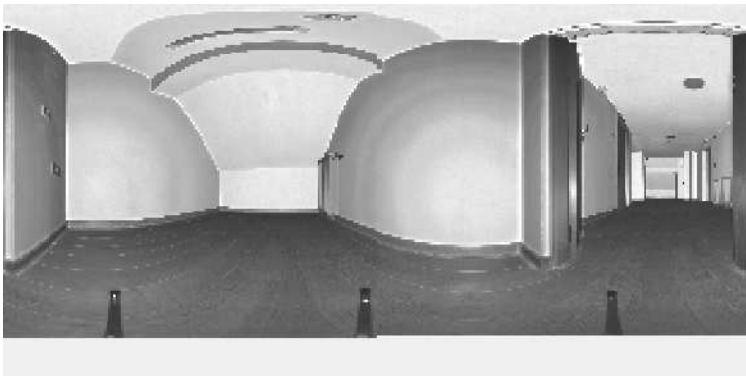
Scan '151'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2022-11-18 10:00:00 (UTC) File: 2022-11-18_10:00_00_151_0000.ctb
Sector:
  position: 108.71300000000000
  Base matrix: 0.637946  -0.013021  -2.1929 m
  new translation: 0.637946  -0.013021  -2.1929 m
  new rotation: 0.000000  0.000000  0.000000
  registration:
    cloud to cloud: 1.300000
    cloud to cloud: 1.300000
    cloud to cloud: 1.300000
  File info:
    0.7130000000000000
    0.637946  -0.013021  -2.1929 m
    0.000000  0.000000  0.000000
```

Level system info: dynamic compensator available.



Scan position '152'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

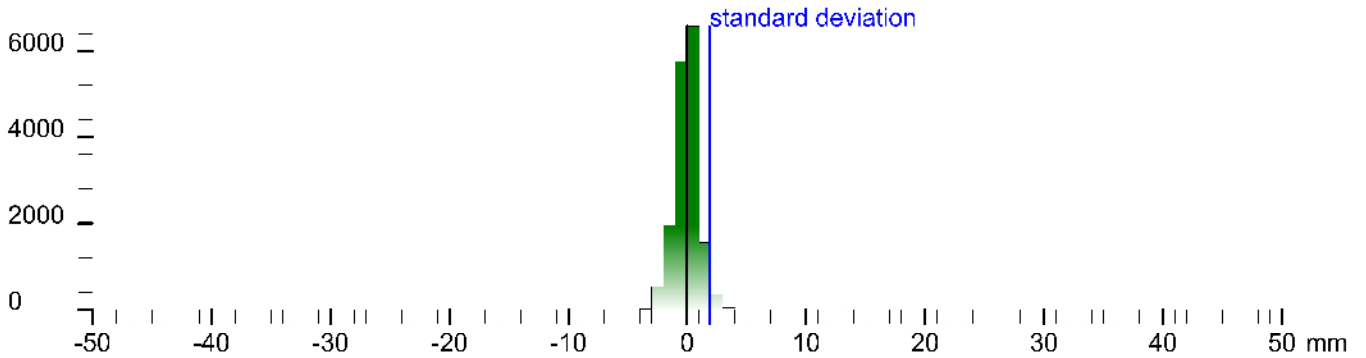
Registration matrix:

```
-0.446828  0.894559  -0.010661  -1.1270 m  
-0.894600  -0.446870  -0.001794  8.2457 m  
-0.006369  0.008736  0.999942  7.3584 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '152'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan name: '152' Scan date: '2023-08-10 10:00:00' Scan time: '10:00:00' Scan location: '152' Scan resolution: 'High' Scan quality: 'Normal' Scan status: 'Success' Scan error: 'None' Scan comment: '' Scan operator: ''

```
Registration matrix:  
-0.446828  0.894559  -0.010661  -1.1270 m  
-0.894600  -0.446870  -0.001794  8.2457 m  
-0.006369  0.008736  0.999942  7.3584 m  
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '154'

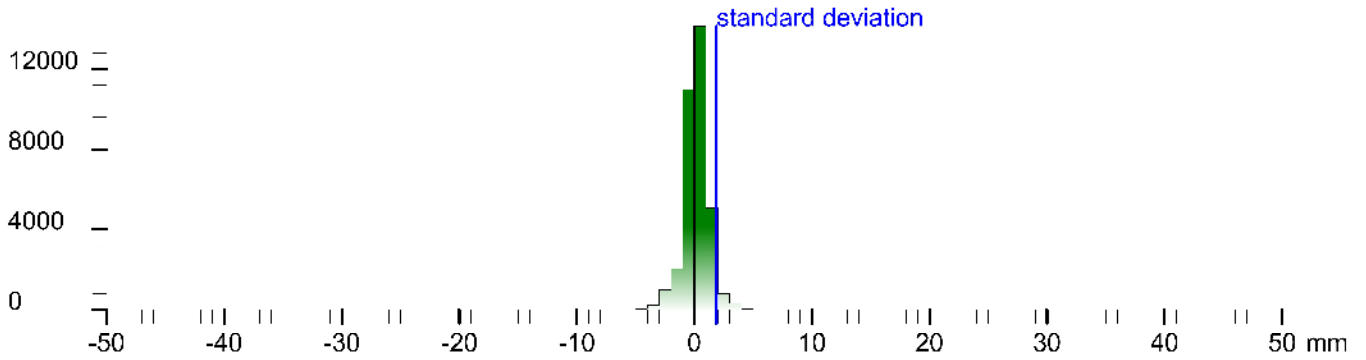
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

-0.443118	0.896397	-0.011104	-0.6441 m
-0.896445	-0.443159	-0.001350	7.9605 m
-0.006131	0.009355	0.999937	8.6355 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '154'

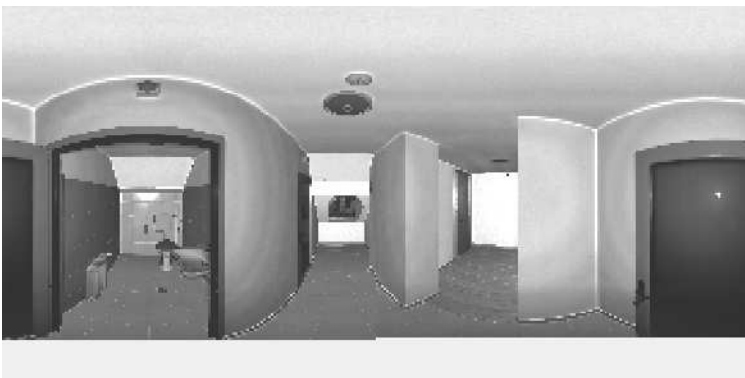
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Sensor: Z+F IMAGER 5016 serial number: 5016-0100 Firmware: 9.0.3.6562-0 Scan resolution: High quality: Normal

Registration matrix: [102h] registered with cloud to cloud
Standard deviation: 1.9 mm
min: -0.443118 max: 0.896397
min: -0.896445 max: -0.443159
min: -0.006131 max: 0.009355
min: 0.999937 max: 0.999937
min: 0.000000 max: 0.000000

Level system info: dynamic compensator available.



Scan position '155'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

0.382994	0.923742	-0.004602	-0.6449 m
-0.923728	0.383015	0.005526	7.1551 m
0.006866	0.002134	0.999974	8.6225 m
0.000000	0.000000	0.000000	1.0000

Scan '155'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

Scan position: [10123h] preregistered with cloud to cloud, manually'

Registration matrix:
0.382994 0.923742 -0.004602 -0.6449 m
-0.923728 0.383015 0.005526 7.1551 m
0.006866 0.002134 0.999974 8.6225 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '156'

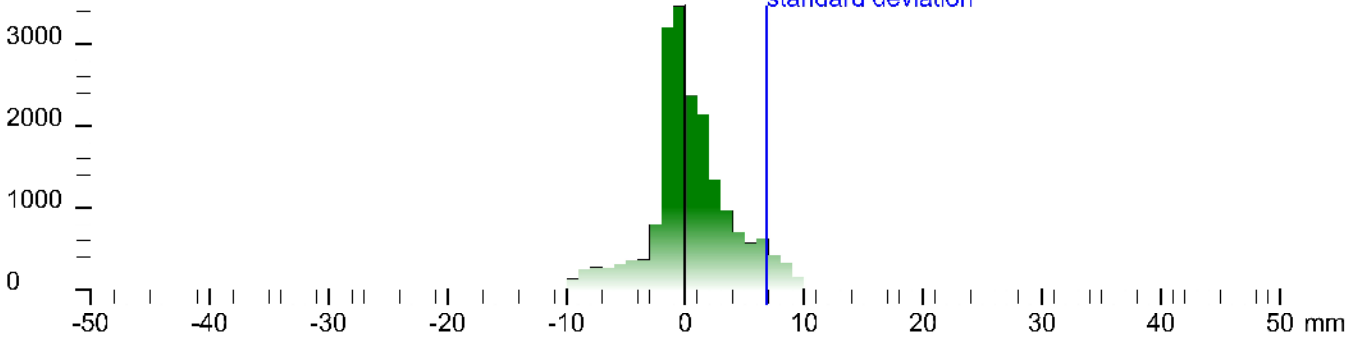
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.531651 -0.846950 -0.005308 -0.6179 m  
0.846966 -0.531633 -0.004398 5.5414 m  
0.000903 -0.006834 0.999976 8.6213 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:6.8 mm

Deviation histogram

Points



Scan '156'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

Scan name: 100_156... [truncated]
Scan date: 20180801... [truncated]
Eure match: 1.213303E11-0.506903E11
Rev: 100_156... [truncated]
Reg: 100_156... [truncated]
Geo: 100_156... [truncated]
Eure: 100_156... [truncated]
Rev: 100_156... [truncated]
Geo: 100_156... [truncated]
Eure: 100_156... [truncated]

Level system info: dynamic compensator available.



Scan position '158'

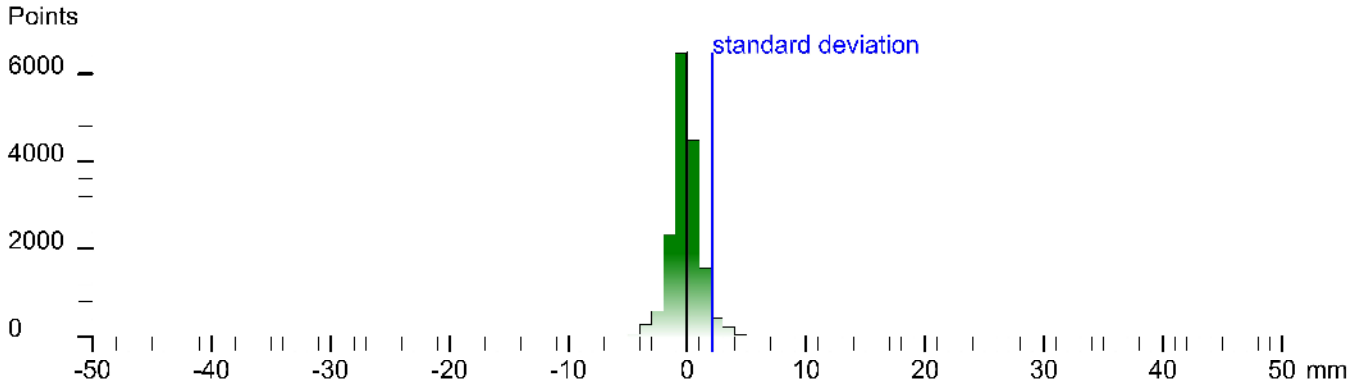
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.324990  0.945641  -0.012203  -2.8340 m
-0.945717  0.324995  -0.001636  6.1171 m
0.002418  0.012072  0.999924  8.6064 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 2.1 mm

Deviation histogram



Scan '158'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2023-08-02 10:41:00 (UTC) at 102h registration with cloud to cloud. Result: 0.324990 0.945641 -0.012203 -2.8340 m 0.945717 0.324995 -0.001636 6.1171 m 0.002418 0.012072 0.999924 8.6064 m 0.000000 0.000000 0.000000 1.0000

```

Registration: 102h registration with cloud to cloud
Error matrix: 0.324990 0.945641 -0.012203 -2.8340 m
            -0.945717 0.324995 -0.001636 6.1171 m
            0.002418 0.012072 0.999924 8.6064 m
            0.000000 0.000000 0.000000 1.0000
Registration: 102h
0.324990 0.945641 -0.012203 -2.8340 m
-0.945717 0.324995 -0.001636 6.1171 m
0.002418 0.012072 0.999924 8.6064 m
0.000000 0.000000 0.000000 1.0000
    
```

Level system info: dynamic compensator available.



Scan position '159'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

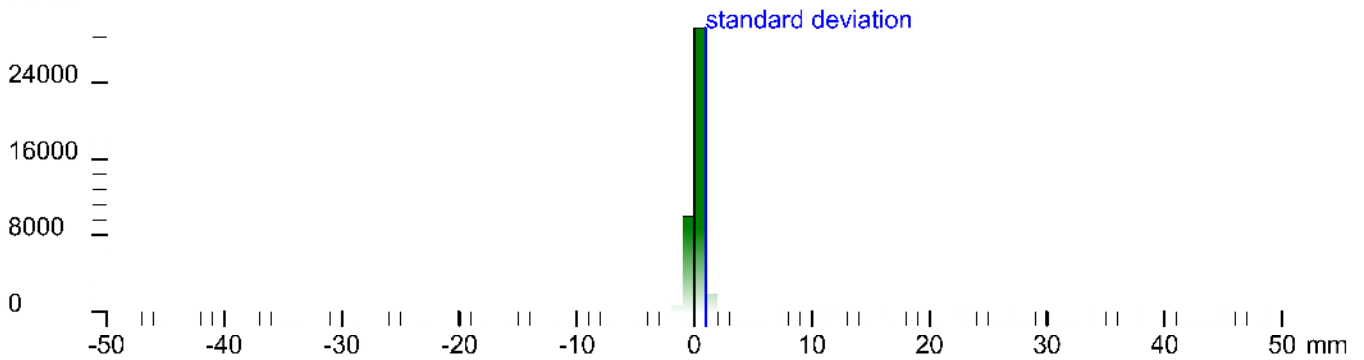
Registration matrix:

```
0.639947 -0.768325 -0.012260 3.7122 m
0.768381 0.639997 -0.000149 10.9932 m
0.007961 -0.009324 0.999925 8.6924 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 0.9 mm

Deviation histogram

Points



Scan '159'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.01458m x 3.07410m (area: 12.3477m²) View height: 1.60m (area: 6.4260m²) Total height: 3.07410m (area: 12.3477m²) View width: 3.07410m (area: 12.3477m²) Total width: 4.01458m (area: 16.4260m²)

```
Registration: 108711 (no metric transformation recorded)
Error matrix: [ 0.18228 0.0 0.179584 0
0.18228 0.0 0.179584 0
0.000000 0.000000 0.000000 0.000000 ]
Registration: 108711 (no metric transformation recorded)
Error matrix: [ 0.18228 0.0 0.179584 0
0.18228 0.0 0.179584 0
0.000000 0.000000 0.000000 0.000000 ]
Registration: 108711 (no metric transformation recorded)
Error matrix: [ 0.18228 0.0 0.179584 0
0.18228 0.0 0.179584 0
0.000000 0.000000 0.000000 0.000000 ]
```

Level system info: dynamic compensator available.



Scan position '16'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

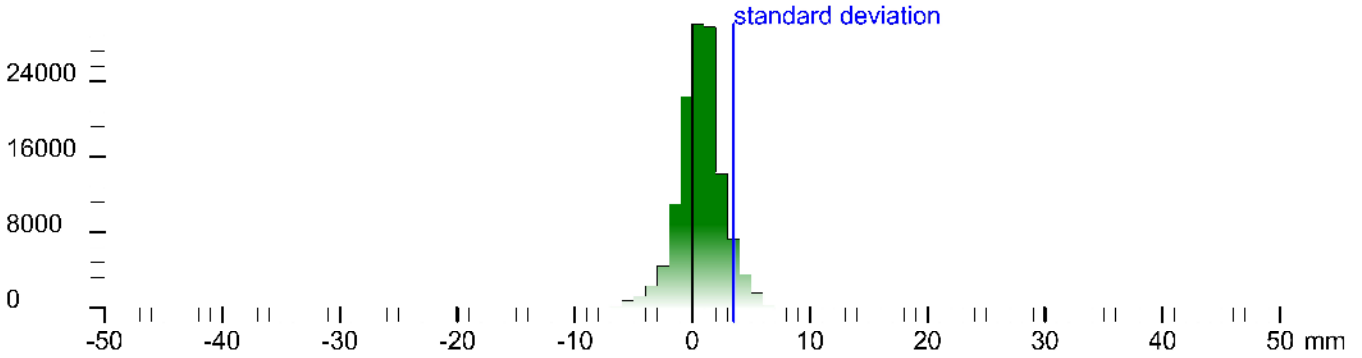
```

-0.611259  -0.791431  -0.000154  27.2574  m
 0.791431  -0.611259   0.000595  28.0924  m
-0.000565   0.000241   1.000000   1.2882  m
 0.000000   0.000000   0.000000   1.0000
    
```

Result registration cloud to cloud standard deviation: 3.5 mm

Deviation histogram

Points



Scan '16'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scan position is member of group(s): [102h] registered with cloud to cloud
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:
 -0.611259 -0.791431 -0.000154 27.2574 m
 0.791431 -0.611259 0.000595 28.0924 m
 -0.000565 0.000241 1.000000 1.2882 m
 0.000000 0.000000 0.000000 1.0000
 Result registration cloud to cloud standard deviation: 3.5 mm

Level system info: dynamic compensator available.



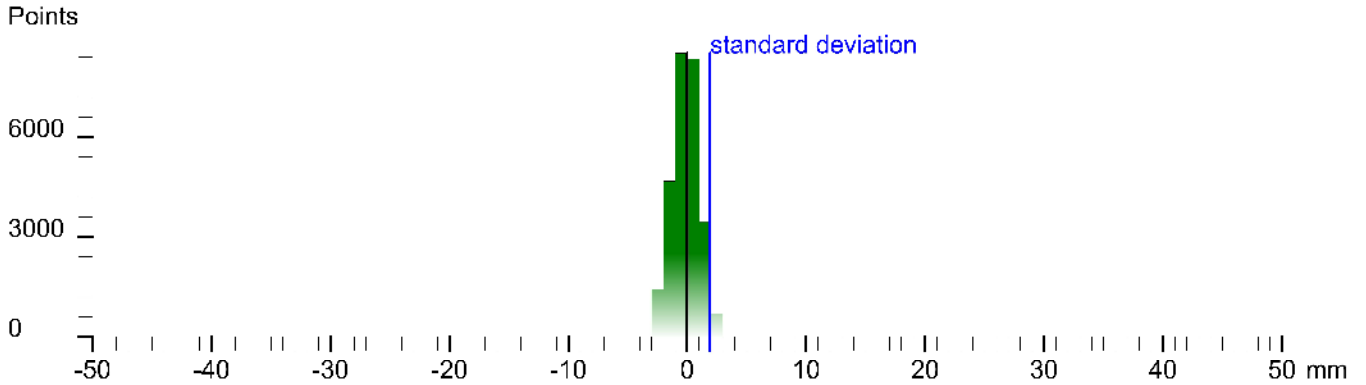
Scan position '162'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
0.998548 -0.051083 -0.017203 6.3754 m
0.051172 0.998682 0.004767 13.1543 m
0.016937 -0.005640 0.999840 7.4578 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram



Scan '162'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Z+F Imager 5016: 102h registered with cloud to cloud
Scan:
  registration: 102h registered with cloud to cloud
  Base matrix: 0.998548 -0.051083 -0.017203 6.3754 m
  registration: 0.051172 0.998682 0.004767 13.1543 m
  registration: 0.016937 -0.005640 0.999840 7.4578 m
  registration: 0.000000 0.000000 0.000000 1.000000
  registration:
  File: data: 102h registered with cloud to cloud
  0.998548 -0.051083 -0.017203 6.3754 m
  0.051172 0.998682 0.004767 13.1543 m
  0.016937 -0.005640 0.999840 7.4578 m
  0.000000 0.000000 0.000000 1.000000
  
```

Level system info: no information about the level system stored in the zfs header



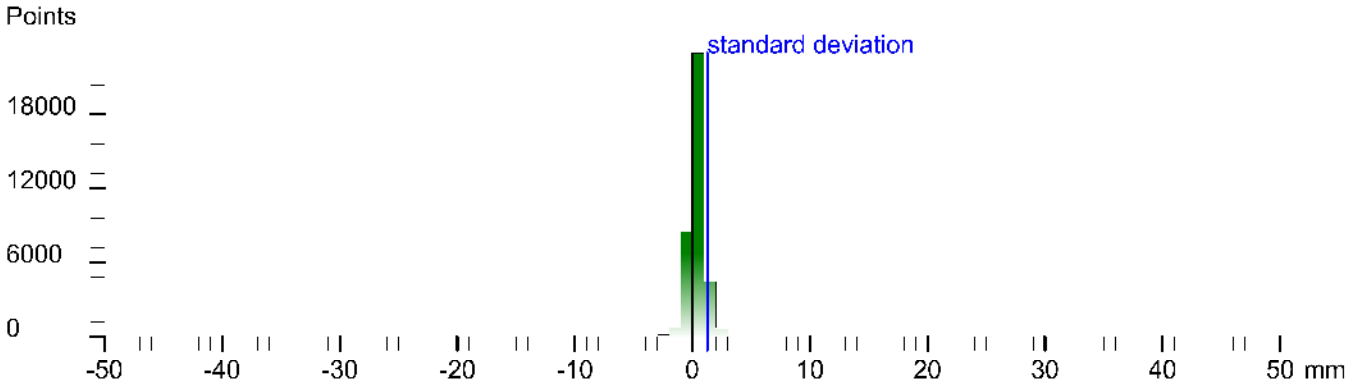
Scan position '163'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.637281  0.770554  -0.011188  3.6047 m
-0.770594  -0.637329 -0.000933  8.5970 m
-0.007849  0.008026  0.999937  8.6887 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '163'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2023-08-02 11:32:40.000 (UTC) File: \\fz\share\3D\Scan\163\163_20230802_113240.ctb
Sector:
  registration: 102h
  registration: registered
  Error matrix: [0.637281  0.770554  -0.011188  3.6047 m
               -0.770594  -0.637329 -0.000933  8.5970 m
               -0.007849  0.008026  0.999937  8.6887 m
               0.000000  0.000000  0.000000  1.0000 m]
  registration: cloud to cloud
  Registration matrix:
  Error matrix: [0.637281  0.770554  -0.011188  3.6047 m
               -0.770594  -0.637329 -0.000933  8.5970 m
               -0.007849  0.008026  0.999937  8.6887 m
               0.000000  0.000000  0.000000  1.0000 m]
  Registration matrix:
  Error matrix: [0.637281  0.770554  -0.011188  3.6047 m
               -0.770594  -0.637329 -0.000933  8.5970 m
               -0.007849  0.008026  0.999937  8.6887 m
               0.000000  0.000000  0.000000  1.0000 m]
  Registration matrix:
  Error matrix: [0.637281  0.770554  -0.011188  3.6047 m
               -0.770594  -0.637329 -0.000933  8.5970 m
               -0.007849  0.008026  0.999937  8.6887 m
               0.000000  0.000000  0.000000  1.0000 m]
```

Level system info: dynamic compensator available.



Scan position '165'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

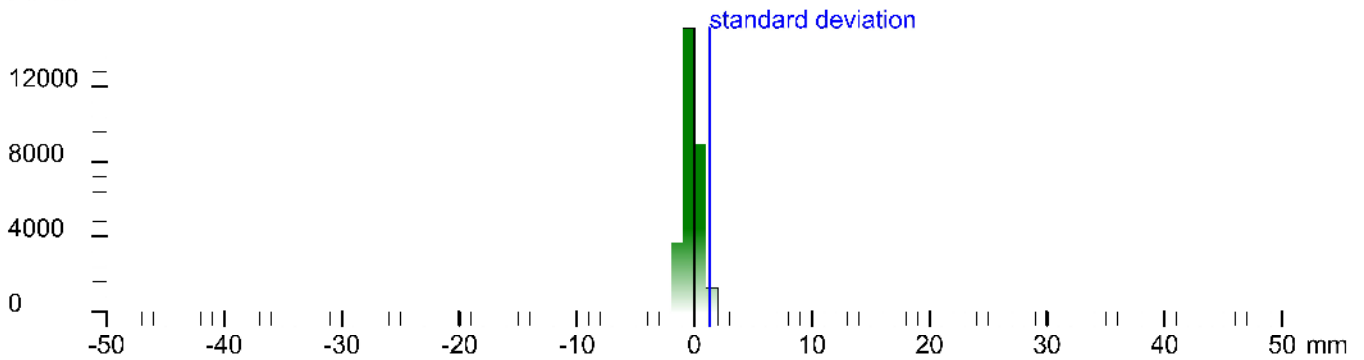
Registration matrix:

```
0.792030 0.610331 -0.013787 4.2684 m
-0.610147 0.792141 0.015461 4.9291 m
0.020357 -0.003833 0.999786 8.7527 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '165'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

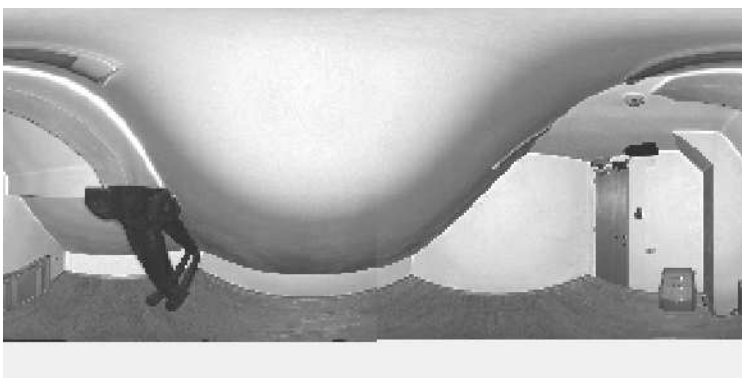
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000000 x 3.000000 m (13.121671 x 9.842595 ft) Area: 12.000000 m² (110.119014 sq ft) Volume: 0.000000 m³ (0.000000 cu ft) Weight: 0.000000 kg (0.000000 lbs) Date: 2016-08-11 10:14:00

```
Registration: 10871 (3)
Base matrix: 0.792030 0.610331 -0.013787 4.2684 m
New registration: 0.792030 0.610331 -0.013787 4.2684 m
New registration: 0.792030 0.610331 -0.013787 4.2684 m
Registration matrix:
0.792030 0.610331 -0.013787 4.2684 m
0.610331 0.792030 0.015461 4.9291 m
0.020357 -0.003833 0.999786 8.7527 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '167'

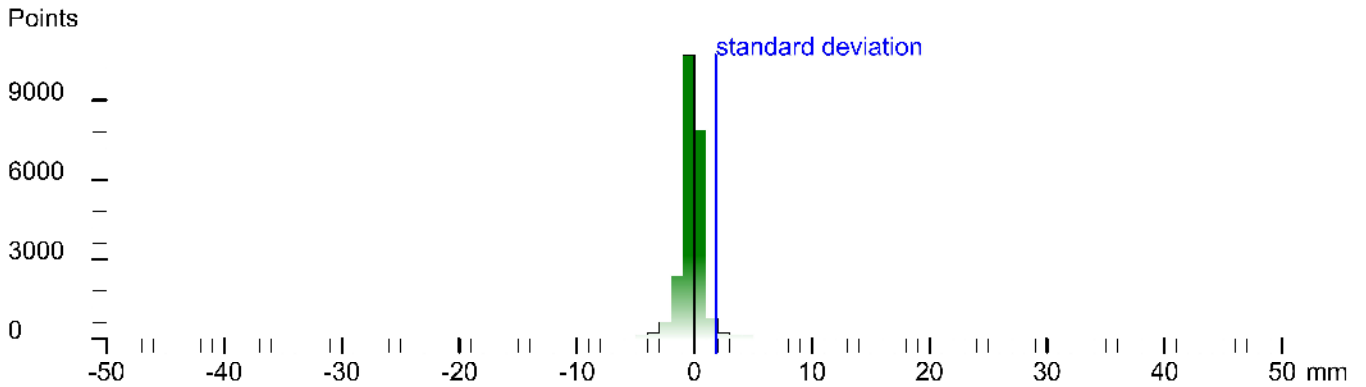
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

-0.316717  0.948466  -0.010449  3.7475 m
-0.948512  -0.316747  -0.001307  7.2655 m
-0.004550  0.009496  0.999945  8.7021 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram



Scan '167'

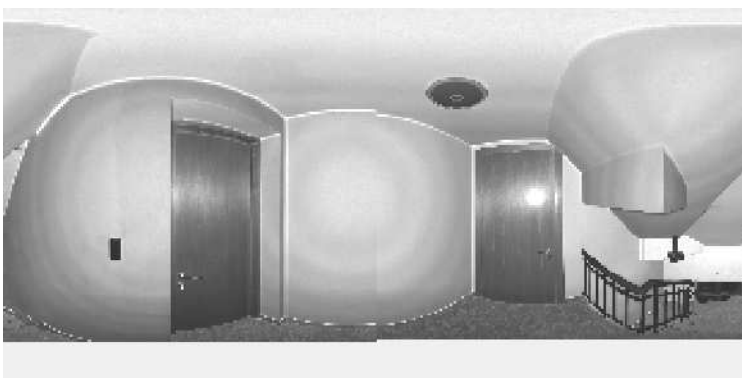
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Z+F IMAGER 5016: 102h registration result: 1.8 mm
Registration matrix:
-0.316717  0.948466  -0.010449  3.7475 m
-0.948512  -0.316747  -0.001307  7.2655 m
-0.004550  0.009496  0.999945  8.7021 m
0.000000  0.000000  0.000000  1.0000
Registration matrix:
-0.316717  0.948466  -0.010449  3.7475 m
-0.948512  -0.316747  -0.001307  7.2655 m
-0.004550  0.009496  0.999945  8.7021 m
0.000000  0.000000  0.000000  1.0000
    
```

Level system info: no information about the level system stored in the zfs header



Scan position '168'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

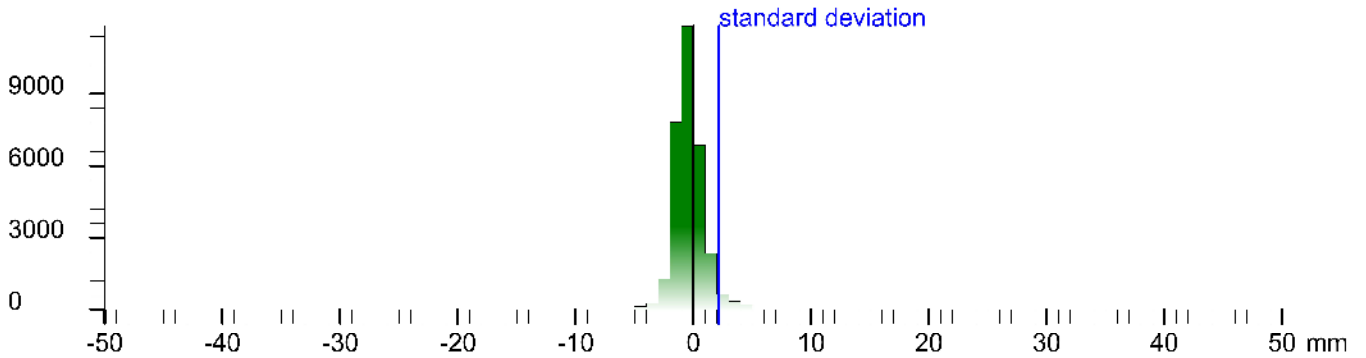
Registration matrix:

```
-0.947401 0.319872 -0.010917 6.0807 m
-0.319872 -0.947462 -0.001669 7.4566 m
-0.010877 0.001909 0.999939 7.2824 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.2 mm

Deviation histogram

Points



Scan '168'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

Scanned on 2023-10-27 10:00:00.000. Scan ID: 168. Scan type: 3D. Scan mode: Normal. Scan resolution: High. Scan quality: Normal. Scan status: Success. Scan duration: 00:00:15.000. Scan volume: 1.000 m³. Scan area: 1.000 m². Scan height: 1.000 m. Scan width: 1.000 m. Scan depth: 1.000 m. Scan accuracy: ±0.1 mm. Scan precision: ±0.05 mm. Scan repeatability: ±0.02 mm. Scan stability: ±0.01 mm. Scan reliability: ±0.9999. Scan consistency: ±0.9999. Scan integrity: ±0.9999. Scan security: ±0.9999. Scan confidentiality: ±0.9999. Scan availability: ±0.9999. Scan performance: ±0.9999. Scan efficiency: ±0.9999. Scan effectiveness: ±0.9999. Scan productivity: ±0.9999. Scan quality control: ±0.9999. Scan compliance: ±0.9999. Scan safety: ±0.9999. Scan risk management: ±0.9999. Scan incident response: ±0.9999. Scan business continuity: ±0.9999. Scan disaster recovery: ±0.9999. Scan data backup: ±0.9999. Scan data recovery: ±0.9999. Scan data archiving: ±0.9999. Scan data retention: ±0.9999. Scan data deletion: ±0.9999. Scan data migration: ±0.9999. Scan data integration: ±0.9999. Scan data interoperability: ±0.9999. Scan data portability: ±0.9999. Scan data accessibility: ±0.9999. Scan data discoverability: ±0.9999. Scan data usability: ±0.9999. Scan data understandability: ±0.9999. Scan data interoperability: ±0.9999. Scan data portability: ±0.9999. Scan data accessibility: ±0.9999. Scan data discoverability: ±0.9999. Scan data usability: ±0.9999. Scan data understandability: ±0.9999.

```
Registration: 102h
Base matrix: [0.947401 0.319872 -0.010917 6.0807]
New registration: [0.947401 0.319872 -0.010917 6.0807]
New registration: [0.947401 0.319872 -0.010917 6.0807]
Registration matrix:
[0.947401 0.319872 -0.010917 6.0807]
[0.319872 -0.947462 -0.001669 7.4566]
[0.010877 -0.001909 -0.999939 -7.2824]
[0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



Scan position '169'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

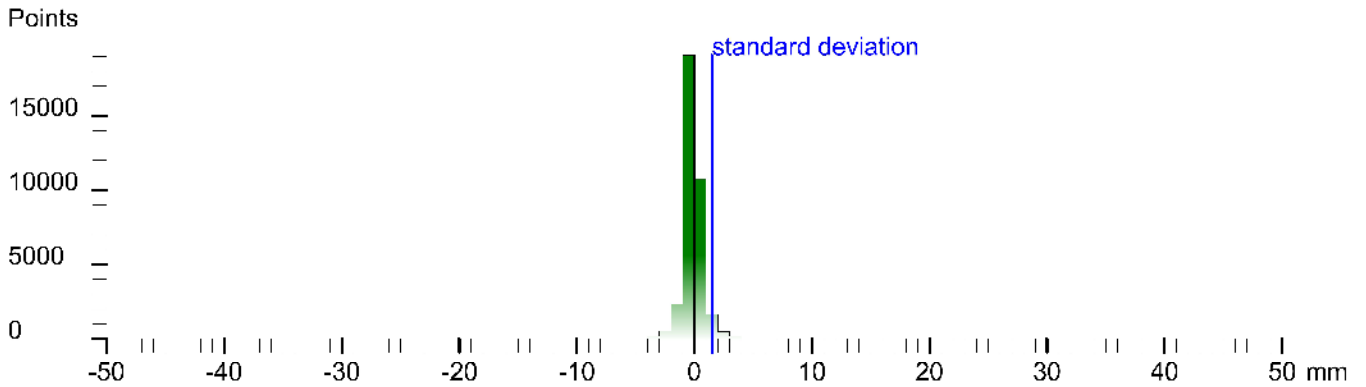
Registration matrix:

```

0.436775  0.899504  -0.011195  5.3958 m
-0.899563 0.436798  -0.000337  8.3069 m
0.004586  0.010218  0.999937  6.5468 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



Scan '169'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

System info: level system info: dynamic compensator available.

```

Point cloud: 40000000 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points
Registration:
    1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points, 1024 x 1024 x 1024 points
Registration matrix:
    0.436775  0.899504  -0.011195  5.3958 m
    -0.899563 0.436798  -0.000337  8.3069 m
    0.004586  0.010218  0.999937  6.5468 m
    0.000000  0.000000  0.000000  1.0000
    Registration quality:
    0.004586  0.010218  0.999937  6.5468 m
    Registration time:
    0.004586  0.010218  0.999937  6.5468 m
    Registration error:
    0.004586  0.010218  0.999937  6.5468 m
    Registration standard deviation:
    0.004586  0.010218  0.999937  6.5468 m
    
```

Level system info: dynamic compensator available.



Scan position '17'

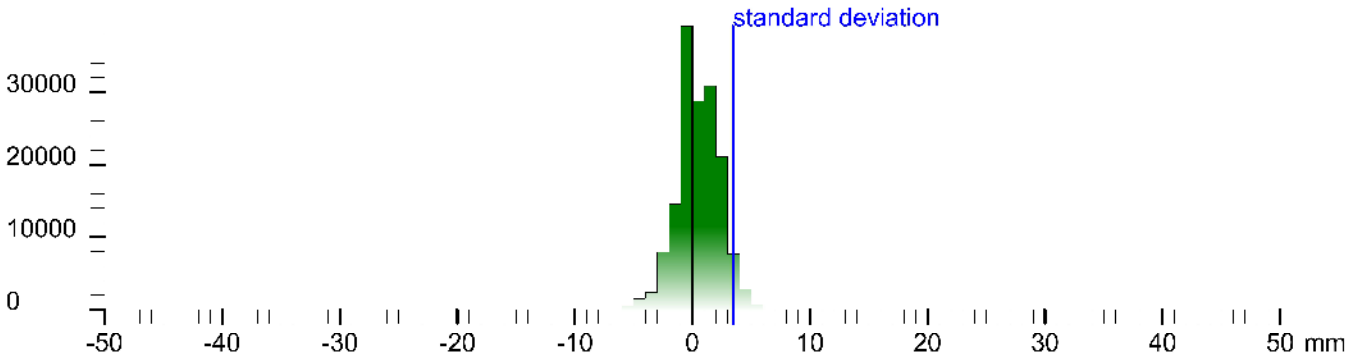
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.993065  -0.117572  0.000315  24.1986 m
0.117572  -0.993065  0.000114  28.6092 m
0.000300  0.000150  1.000000  1.1996 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 3.5 mm

Deviation histogram

Points



Scan '17'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned at 2017-08-10 10:00:00 (UTC) on 2017-08-10 10:00:00 (UTC) using Z+F Imager 5016 (serial number 5016-0100) with firmware 9.0.3.6562-0. Scan resolution: High, quality: Normal. Scan position: 17. Scan group: 102h. Scan status: registered with cloud to cloud. Registration matrix: -0.993065 -0.117572 0.000315 24.1986 m 0.117572 -0.993065 0.000114 28.6092 m 0.000300 0.000150 1.000000 1.1996 m 0.000000 0.000000 0.000000 1.0000. Level system info: dynamic compensator available.
```



Scan position '170'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

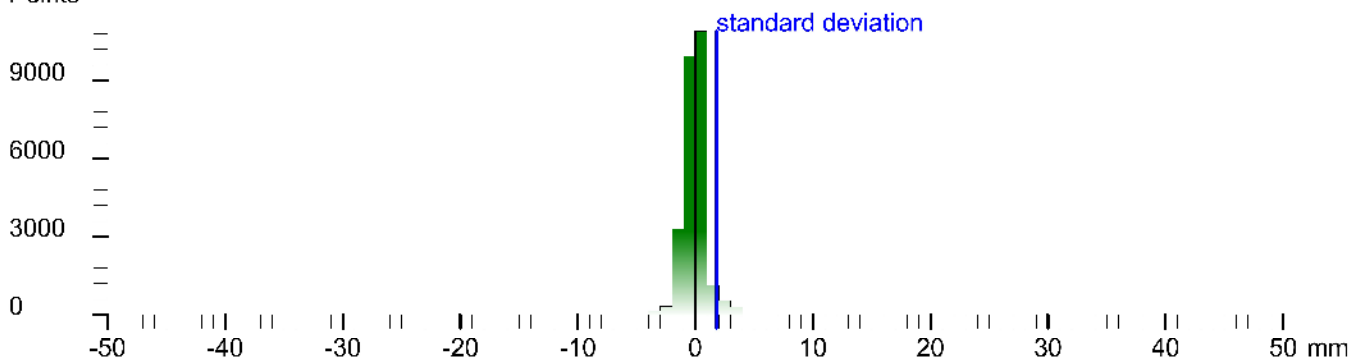
Registration matrix:

```
-0.635280  0.772215  -0.010460  3.4991 m
-0.772246  -0.635326  -0.001414  7.1700 m
-0.007737  0.007178  0.999944  5.2334 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram

Points



Scan '170'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
----------	-------

comment

operator

```
Scanned on: 2024-03-14 10:10:10 (UTC)
Scan ID: 170
Registration matrix:
-0.635280  0.772215  -0.010460  3.4991 m
-0.772246  -0.635326  -0.001414  7.1700 m
-0.007737  0.007178  0.999944  5.2334 m
0.000000  0.000000  0.000000  1.0000 m
Standard deviation: 1.8 mm
Level system info: dynamic compensator available.
```



Scan position '172'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

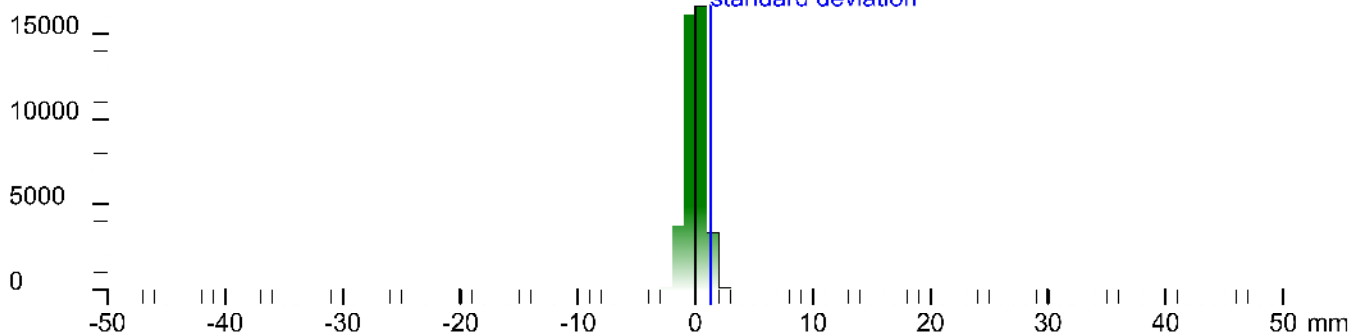
Registration matrix:

```
0.602839 -0.797778 -0.011918 5.4935 m
0.797830 0.602887 -0.000522 8.3036 m
0.007602 -0.009193 0.999929 2.8309 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '172'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

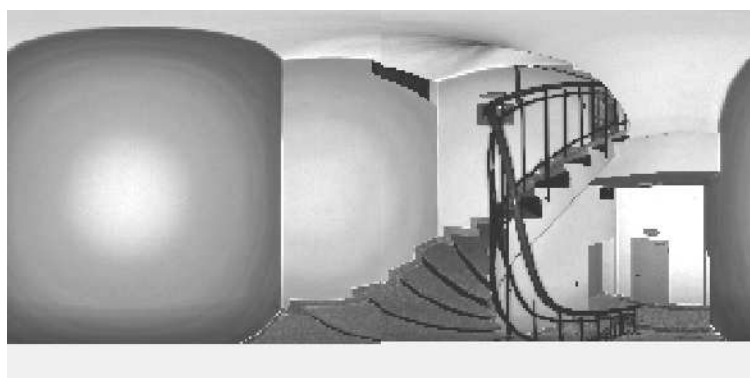
Metadata	Value
comment	
operator	

Scan area: 400.000 x 300.000 mm (400.000 x 300.000 mm) [102h] registered with cloud to cloud. No outliers. Full registration. Scan resolution: 0.375 mm. Scan quality: 'Normal'. Scan date: 2014.12.15 10:00:00.

Comment:

```
Registration: 102h [102h] registered with cloud to cloud
Registration matrix: 0.602839 -0.797778 -0.011918 5.4935 m
0.797830 0.602887 -0.000522 8.3036 m
0.007602 -0.009193 0.999929 2.8309 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '173'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

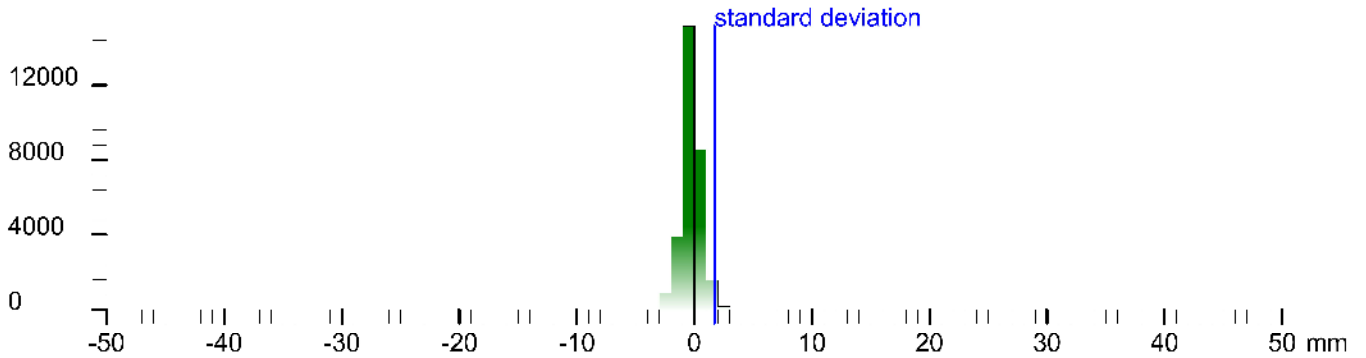
Registration matrix:

```
0.097142  0.995216  -0.010668  3.4815 m  
-0.995273  0.097133  -0.001373  7.0753 m  
-0.000331  0.010750  0.999942  1.4342 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram

Points



Scan '173'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.004384m x 3.074102m x 3.074102m (4.004384m x 3.074102m x 3.074102m) (4.004384m x 3.074102m x 3.074102m) (4.004384m x 3.074102m x 3.074102m)

```
Registration: 108711 (parameter: transition record)  
Error matrix: 0.018376 0.011389 0.000000 0.000000 m  
reg. translation: 4.221481 1.225712 1.23386 m (translation: 6.4167 1.64167 1.00000 m)  
reg. rotation: 0.000000 0.000000 0.252015 rad (rotation: 0.252015 0.000000 0.000000 rad)  
reg. deviation: 0.000000 m  
EHE data profile: 10 (meters)  
0.008 0.254 0.000 -42.716  
0.254 0.254 0.000 3.944  
0.000 0.254 0.000 4.839  
0.000 0.254 0.000 0.000
```

Level system info: dynamic compensator available.



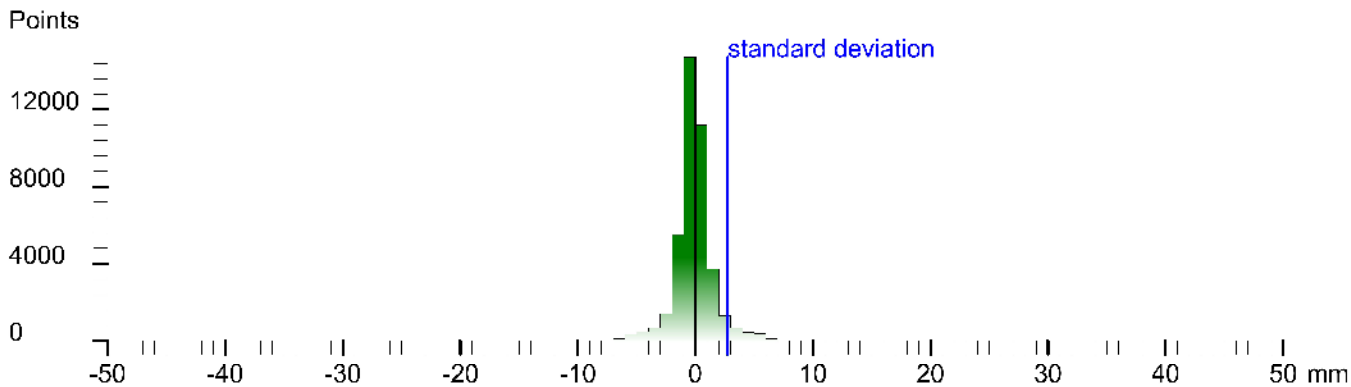
Scan position '174'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.772481 -0.634946 -0.011085 6.1601 m  
0.634981 0.772532 -0.000444 7.2325 m  
0.008846 -0.006694 0.999939 0.0594 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.8 mm

Deviation histogram



Scan '174'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata Value comment operator

Scanned on 2023-09-19 11:24:15 (UTC) at 10.0.1.100 (10.0.1.100) in 30.00 s (0.115 Hz) with 1024 x 1024 pixels (10.00 x 10.00 m) resolution (0.115 Hz) with 1024 x 1024 pixels (10.00 x 10.00 m) resolution. The scan data is stored in the folder '174' under the path 'C:\Users\user\Documents\174'.
Date and time: 2023-09-19 11:24:15 (UTC)
Scan resolution: 0.115 Hz
Scan quality: High
Scan mode: Normal
Scan area: 10.00 x 10.00 m
Scan range: 0.100 to 0.100 m
Scan speed: 1.000 m/s
Scan distance: 10.000 m
Scan angle: 0.000 degrees
Scan height: 10.000 m

Level system info: dynamic compensator available.



Scan position '176'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
-0.983641 -0.179786  0.011570  5.8001 m
 0.179864 -0.983676  0.006055  7.2021 m
 0.010294  0.008036  0.999915 -2.6797 m
 0.000000  0.000000  0.000000  1.0000
```

Scan '176'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

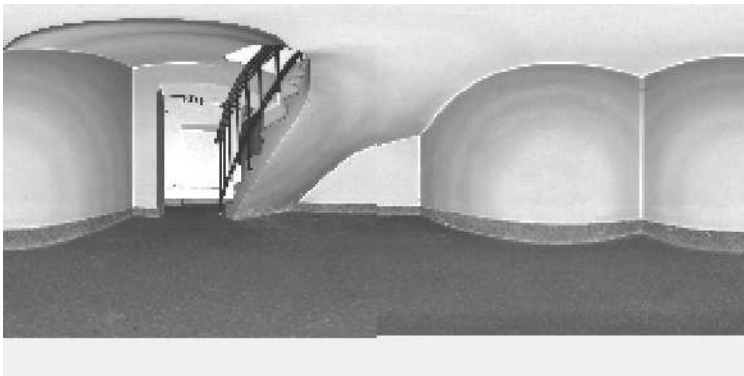
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Source: https://www.zf.com/Products/Services/Imaging-Systems/zf-imager-5016/zf-imager-5016-technical-specifications/2024-en/updates/2024-03-20-10123h-10123h-10123h-10123h

```
Parameter: 085 - 3D scanner resolution in cm
Parameter: 176/10123h - 0.983641
fov translation: 1.1605 m -0.4936 m -0.4520 m accuracy: 7.2377 m 7.2377 m 0.0100 m
fov resolution: 0.0000 0.0000 -0.0000 used: 0.0000 0.0000 0.0000
operator:
Parameter: 085 (3D scanner)
0.983641 0.179786 0.011570 -5.8001
0.179864 -0.983676 0.006055 -7.2021
0.010294 0.008036 0.999915 2.6797
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '177'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
0.456144 0.889833 -0.011457 1.7502 m  
-0.889906 0.456120 -0.004789 8.9521 m  
0.000965 0.012381 0.999923 2.0231 m  
0.000000 0.000000 0.000000 1.0000
```

Scan '177'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scan name: '177' File name: '177' Scan position: '177' Registration: '10123h' Scanner: 'Z+F IMAGER 5016' Serial number: '5016-0100' Firmware: '9.0.3.6562-0' Quality: 'High' Resolution: 'Normal' Comment: '' Operator: ''

```
Parameter: 005 - Scanner resolution in cm  
Elevation: 1.157 m (0.00157 m)  
Max translation: 2.000 m (0.00200 m)  
Max rotation: 0.0000 0.0000 72.449 2.0000 0.0000 0.0000 -5.0000  
Operator: ''  
Registration: 10123h  
Elevation position: 0.0000 m  
0.002 0.000 0.000 -0.000  
0.000 0.000 0.000 0.000  
0.000 0.000 0.000 0.000
```

Level system info: dynamic compensator available.



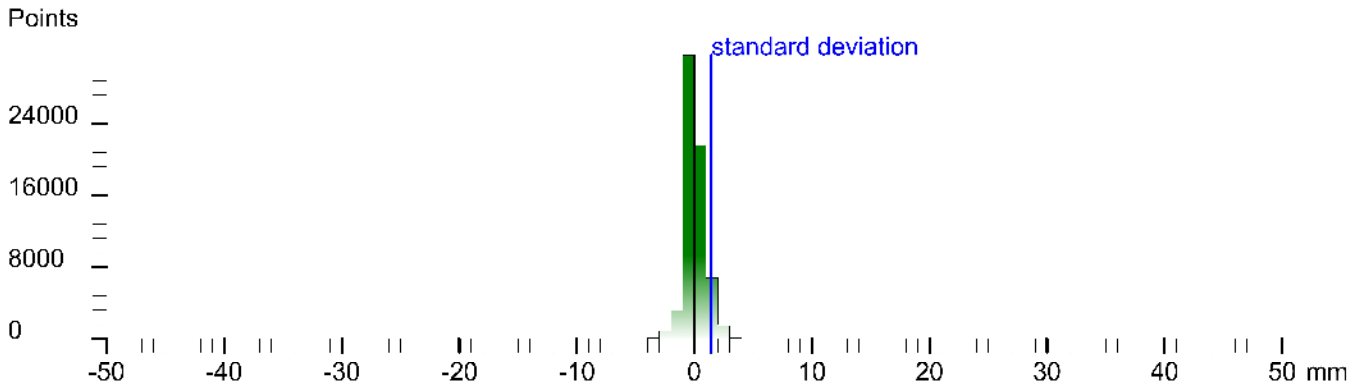
Scan position '179'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.527398  0.849536  -0.011895  -0.9457 m
-0.849558  -0.527476  -0.004617  9.2096 m
-0.010197  0.007671  0.999919  2.0978 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



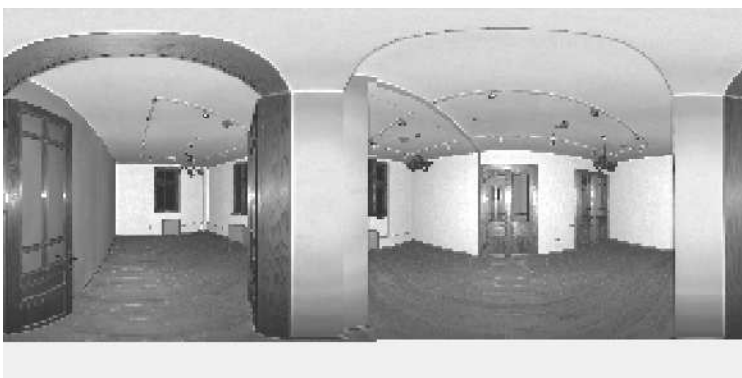
Scan '179'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned with Z+F Imager 5016 on 2023-10-17 10:00:00.000. Scan position: 179. Scan resolution: High. Quality: Normal.
Comment:
operator: 10871
Registration matrix:
Registration matrix:
-0.527398  0.849536  -0.011895  -0.9457 m
-0.849558  -0.527476  -0.004617  9.2096 m
-0.010197  0.007671  0.999919  2.0978 m
0.000000  0.000000  0.000000  1.0000
Registration matrix:
-0.527398  0.849536  -0.011895  -0.9457 m
-0.849558  -0.527476  -0.004617  9.2096 m
-0.010197  0.007671  0.999919  2.0978 m
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '18'

Scan position is member of group(s):

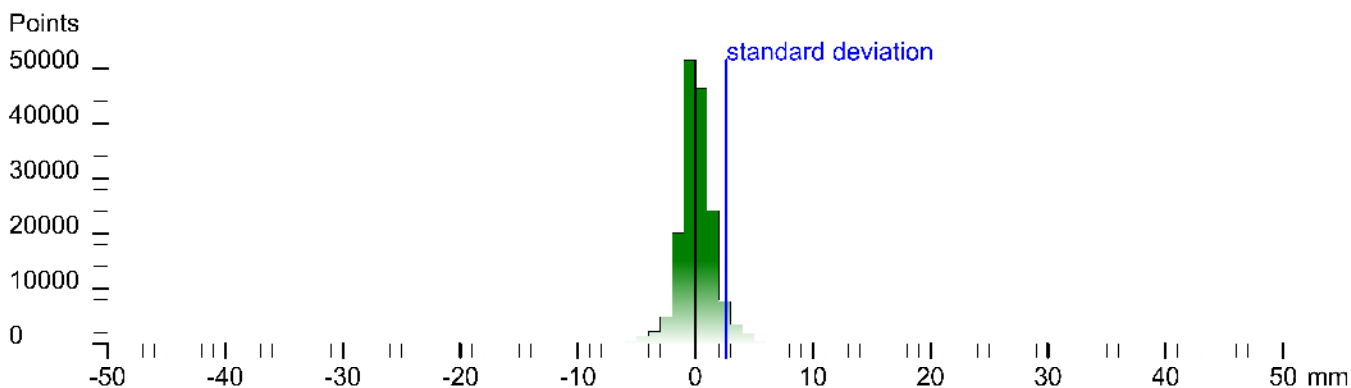
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.756486 0.654010 0.000982 20.7517 m
-0.654010 -0.756486 0.000348 25.9885 m
0.000971 -0.000379 1.000000 1.0462 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:2.6 mm

Deviation histogram



Scan '18'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scan position: [102h] registered with cloud to cloud
Scanner: Z+F IMAGER 5016
Serial number: 5016-0100
Firmware: 9.0.3.6562-0
Scan resolution: High
Quality: Normal
Level system info: dynamic compensator available.
Metadata:
comment:
operator:
```

Level system info: dynamic compensator available.



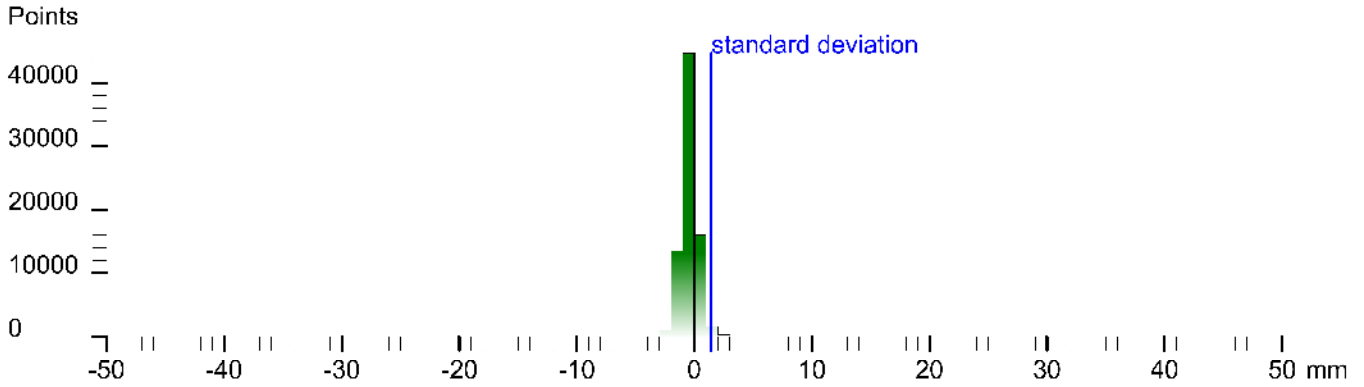
Scan position '180'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.466482  0.884454  -0.011750  -1.1641 m  
-0.884476  -0.466560  -0.005002  7.8226 m  
-0.009906  0.008061  0.999919  2.0918 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram



Scan '180'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 on 2024-08-14 10:22:45. The scan was performed in a room with a carpeted floor and white walls. The scan area is approximately 10m x 10m.

```
Registration: 102h  
Error matrix: 0.016568 0.017733 0  
Registration: 0.009906 0.008061 0.999919 2.0918 m  
Registration: 0.000000 0.000000 0.000000 1.000000  
Registration: 0.000000 0.000000 0.000000 1.000000  
Registration: 0.000000 0.000000 0.000000 1.000000
```

Level system info: dynamic compensator available.



Scan position '182'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

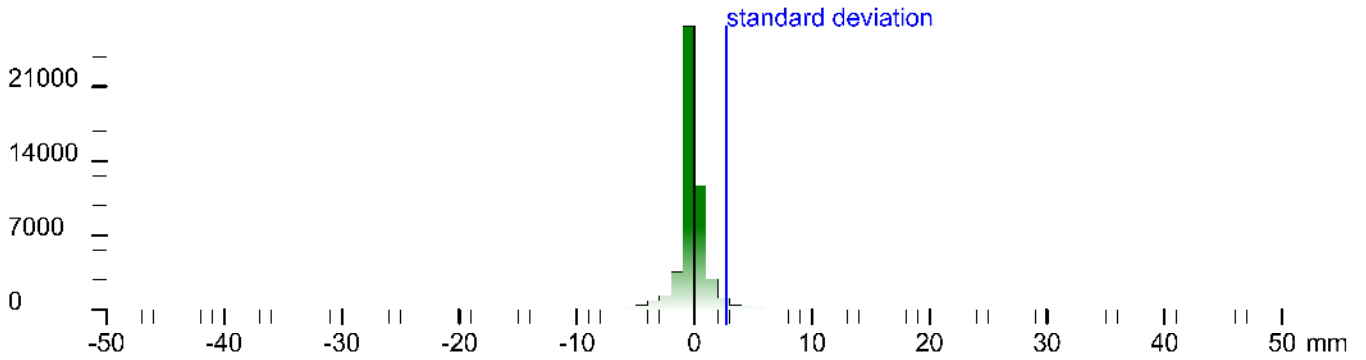
Registration matrix:

```
0.154168 -0.987955 -0.013374 -0.6603 m
0.988030 0.154226 -0.003426 12.3635 m
0.005448 -0.012686 0.999905 2.1084 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram

Points



Scan '182'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00436m x 3.07416m (area: 12.308m²) [102h] registered with cloud to cloud. Registration matrix: [0.154168 -0.987955 -0.013374 -0.6603; 0.988030 0.154226 -0.003426 12.3635; 0.005448 -0.012686 0.999905 2.1084; 0.000000 0.000000 0.000000 1.0000]

```
Registration: 102h [102h] registered with cloud to cloud
Error matrix: [0.154168 -0.987955 -0.013374 -0.6603; 0.988030 0.154226 -0.003426 12.3635; 0.005448 -0.012686 0.999905 2.1084; 0.000000 0.000000 0.000000 1.0000]
Registration: 102h [102h] registered with cloud to cloud
Error matrix: [0.154168 -0.987955 -0.013374 -0.6603; 0.988030 0.154226 -0.003426 12.3635; 0.005448 -0.012686 0.999905 2.1084; 0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



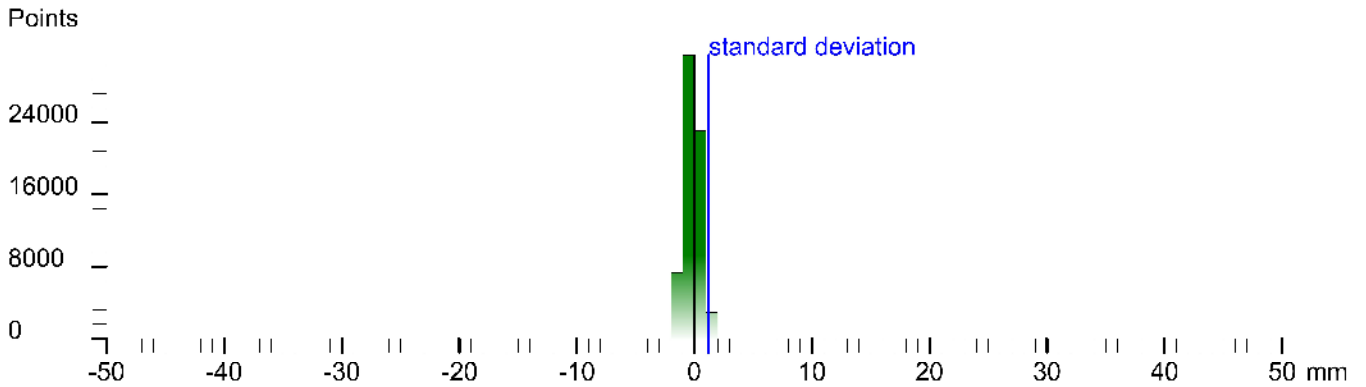
Scan position '183'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.751923 -0.659120 -0.013192 -1.1565 m
0.659210 -0.751950 -0.003855 15.8181 m
-0.007380 -0.011595 0.999906 2.1146 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

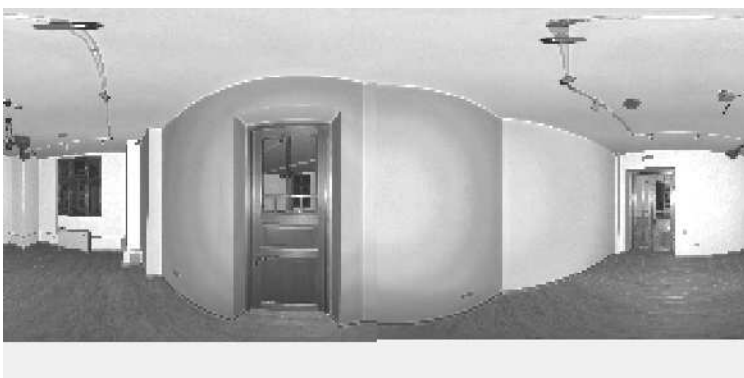


Scan '183'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2017-10-26 10:40:00 UTC at 40.748322N 11.337185E (Zurich Airport, Switzerland) with the Z+F Imager 5016. Scan position: 183.
Scanner: 5016
Scan position: 183
Registration matrix:
-0.751923 -0.659120 -0.013192 -1.1565 m
0.659210 -0.751950 -0.003855 15.8181 m
-0.007380 -0.011595 0.999906 2.1146 m
0.000000 0.000000 0.000000 1.0000
Standard deviation: 1.2 mm
Level system info: dynamic compensator available.
```



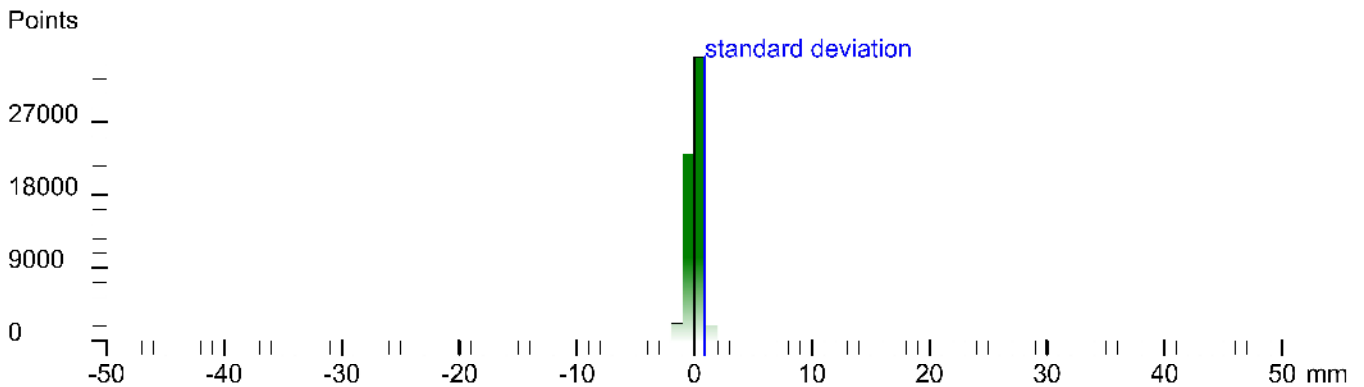
Scan position '184'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.954352 -0.298391 -0.013335 -3.3743 m
0.298474 -0.954407 -0.004752 14.1439 m
-0.011310 -0.008516 0.999900 2.0810 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 0.9 mm

Deviation histogram



Scan '184'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned: 2024-09-02 10:41:00 (UTC) | File: 20240902_104100_184 | Path: /data/scan/20240902_104100_184 | Size: 1.2 GB | Points: 27000 | Cloud-to-Cloud: 0.9 mm | Quality: High | Resolution: Normal | Operator: [redacted] | Comment: [redacted] | Registration: Cloud-to-Cloud | Matrix: [[-0.954352, -0.298391, -0.013335, -3.3743, 0.298474, -0.954407, -0.004752, 14.1439, -0.01131, -0.008516, 0.9999, 2.081, 0, 0, 0, 1]] | Status: Registered with cloud-to-cloud
```

Level system info: dynamic compensator available.



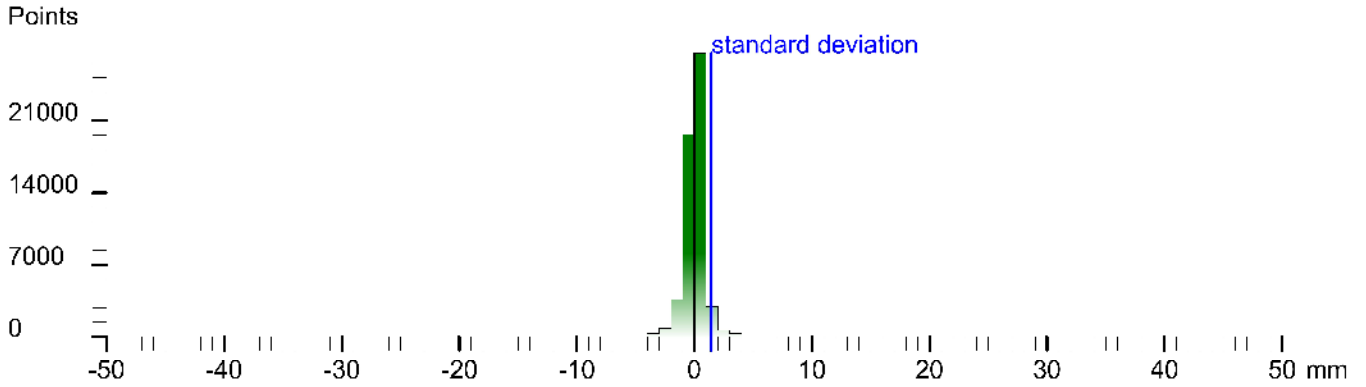
Scan position '185'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

0.811879	-0.583687	-0.012754	1.9994	m
0.583703	0.811963	-0.002905	12.0981	m
0.012052	-0.005087	0.999915	2.1407	m
0.000000	0.000000	0.000000	1.0000	

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



Scan '185'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2021-08-23 12:00:00 with scanner 'Z+F IMAGER 5016' serial number '5016-0100' firmware '9.0.3.6562-0' at position '185'.

Registration: 10871 (parameter: transition: record-0)
 Base rotation: 0.016121, Euler: -8.8749 m
 Translation: -0.00031, -0.00031, -0.00031, -0.00031, -0.00031, -0.00031, -0.00031, -0.00031, -0.00031
 Registration matrix:
 0.811879 -0.583687 -0.012754 1.9994
 0.583703 0.811963 -0.002905 12.0981
 0.012052 -0.005087 0.999915 2.1407
 0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



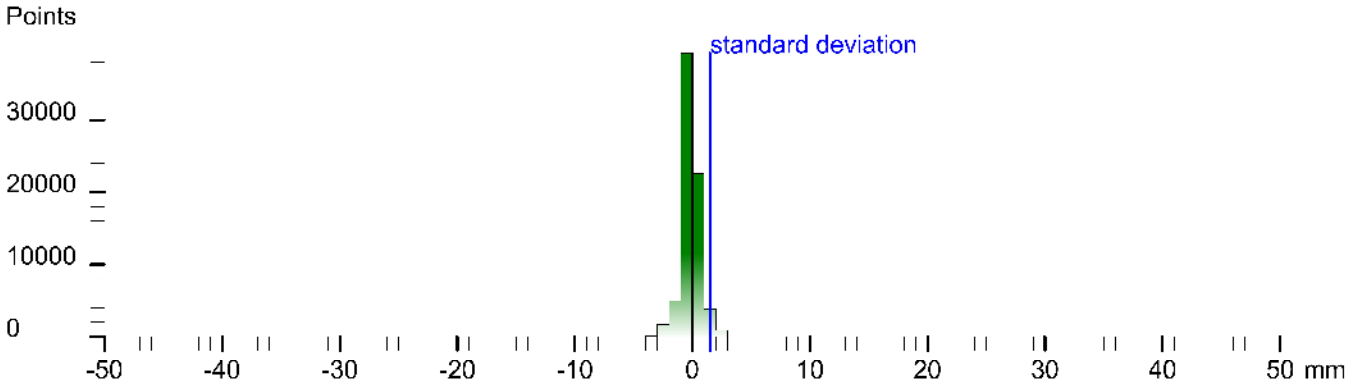
Scan position '186'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.920663 -0.390160 -0.012473 2.6097 m
0.390154 0.920745 -0.003014 15.5536 m
0.012662 -0.002092 0.999918 2.1605 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



Scan '186'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scanned at: 2010-05-06 10:24:00 [UTC+01:00] Scan position: 186 [102h] registered with cloud to cloud  
Sector:  
position: 108 [102h] registered with transition recorded  
Barcode: '121014' [102h] 0358 m  
rev: 108 [102h] 1.1984 m [-2.9-21] [-484.8970] [0.0018] [0.0215] [1.1001]  
rev: 108 [102h] 0.0000 [0.0000] [0.0000] [0.0000] [0.0000] [0.0000] [0.0000] [0.0000]  
operator: [102h]  
PH: data profile: [102h]  
1248 0.0000 0.0000 0.0000  
1252 0.0000 0.0000 0.0000  
1256 0.0000 0.0000 0.0000  
1260 0.0000 0.0000 0.0000
```

Level system info: no information about the level system stored in the zfs header



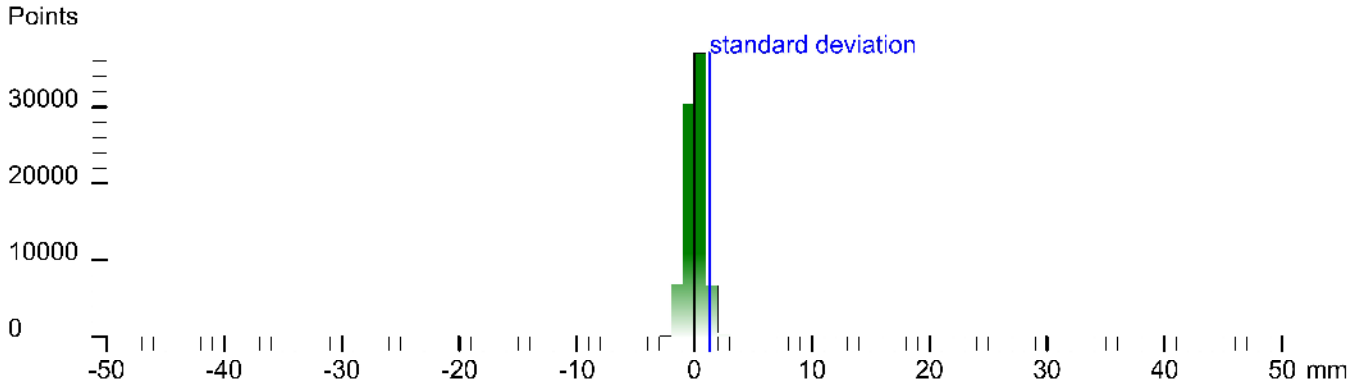
Scan position '187'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.217680 0.975958 -0.011101 6.5732 m  
-0.976020 0.217650 -0.003847 12.5285 m  
-0.001338 0.011673 0.999931 2.1989 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



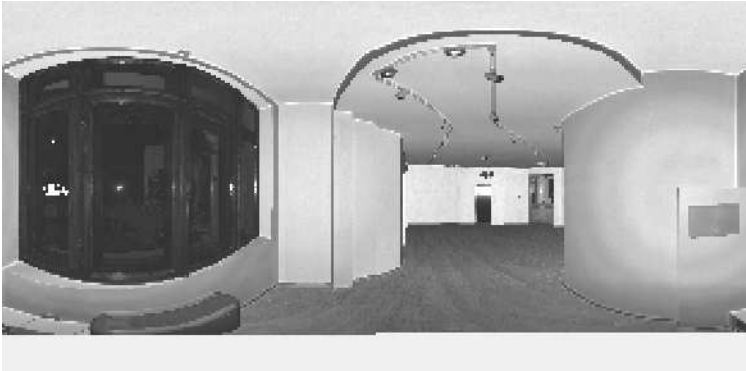
Scan '187'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F Imager 5016 at 2024-10-10 10:20:00. Scan position: 187. Scan area: 1.0000 m x 1.0000 m. Scan resolution: High. Scan quality: Normal. Scan status: Success. Scan time: 0:00:00. Scan date: 2024-10-10 10:20:00. Scan location: 50.0000 N, 10.0000 E. Scan altitude: 100.0000 m. Scan temperature: 20.0000 C. Scan humidity: 50.0000 %. Scan operator: [redacted]. Scan comment: [redacted]. Scan matrix: 0.217680 0.975958 -0.011101 6.5732 m -0.976020 0.217650 -0.003847 12.5285 m -0.001338 0.011673 0.999931 2.1989 m 0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



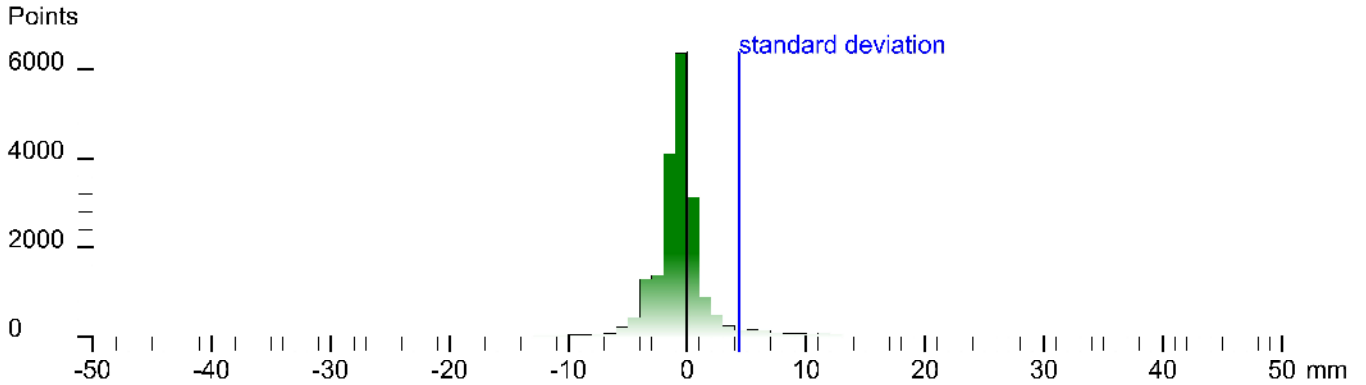
Scan position '189'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.798911 -0.601318 -0.012658  3.9127 m
 0.601392 -0.798951 -0.002806 10.7523 m
-0.008427 -0.009855  0.999916  2.1622 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:4.3 mm

Deviation histogram



Scan '189'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2016-05-16 10:24:00 (UTC) File: 010189_01_102h.ctb File Size: 102400000 Bytes File Type: CTB File Location: C:\Users\...
Sensor:
  Resolution: 1080 x 1080 (mm)
  Base Matrix: [0.002806 0.012658 0.601318 0.798911]
  New Matrix: [0.002806 0.012658 0.601318 0.798911]
  Registration: 0.000000 0.000000 0.000000 0.000000
  Registration: 0.000000 0.000000 0.000000 0.000000
  Registration: 0.000000 0.000000 0.000000 0.000000
  Registration: 0.000000 0.000000 0.000000 0.000000
```

Level system info: dynamic compensator available.



Scan position '19'

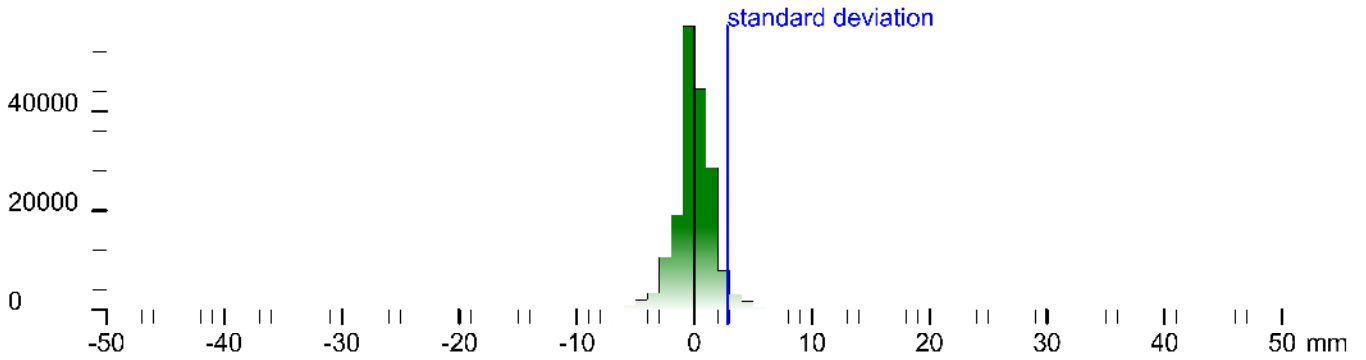
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.993827  0.110940  0.000445  15.9721 m
-0.110940 -0.993827  0.000098  25.6741 m
0.000454  0.000048  1.000000  0.2759 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.8 mm

Deviation histogram

Points



Scan '19'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned on: 2023-08-02 10:44:00 (UTC)
Scan name: '19'
Barcode: '012509 0043982'
New position: 42.17871, -42.6381, 4.6422 m (altitude: 6.775 m, 6.7475 m @ 0.0101 m)
New position: 0.00000, 0.00000, 0.00000 m (altitude: 0.00000, 0.00000, 0.00000)
Operator: '...'
GPS: 45.475181, 12.065111, 461.000000 m (altitude: 461.000000 m, 461.000000 m @ 0.000000 m)
GPS: 45.475181, 12.065111, 461.000000 m (altitude: 461.000000 m, 461.000000 m @ 0.000000 m)
Level system info: (operator)
Level system info: (operator)
Level system info: (operator)
Level system info: (operator)
```

Level system info: dynamic compensator available.



Scan position '192'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

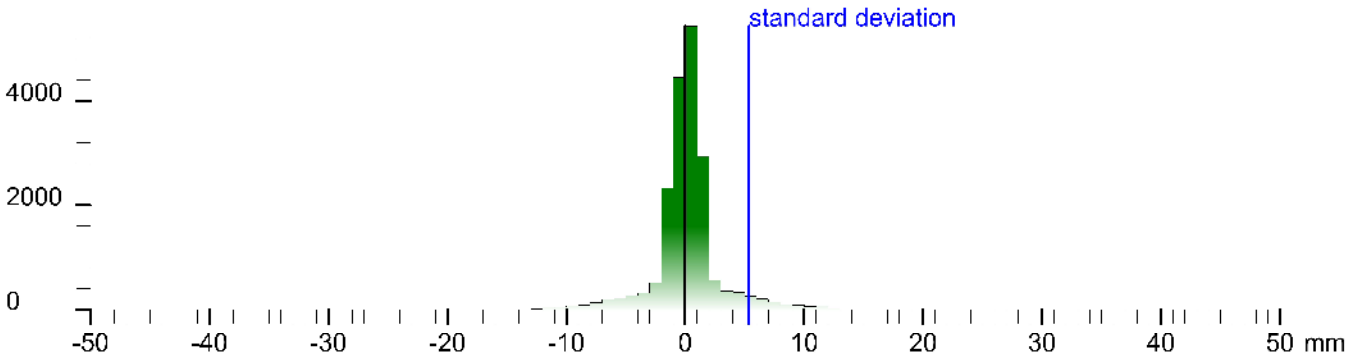
```

-0.428956 -0.903237 -0.012705 3.2489 m
 0.903326 -0.428928 -0.004969 8.9989 m
-0.000962 -0.013609  0.999907 2.1386 m
 0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 5.4 mm

Deviation histogram

Points



Scan '192'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```

Scanned at 2011-07-29 12:41:00 UTC on a Z+F Imager 5016 (serial number 5016-0100) with firmware 9.0.3.6562-0.
Scanner:
  model: 10871 (parameter transmission record #)
  bare metal: 1216211 ba -24.3185 m
  raw data size: 174231 -422847 (428,0072) - accuracy: 8.1259 m 8.1259 m 11.0011
  resolution: 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
  operator:
  F-Info pointer: 00000000
  0.0000 0.0000 0.0000 -28.618
  0.0000 0.0000 0.0000 -44.618
  0.0000 0.0000 0.0000 -48.618
  0.0000 0.0000 0.0000 0.0000
    
```

Level system info: dynamic compensator available.



Scan position '194'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

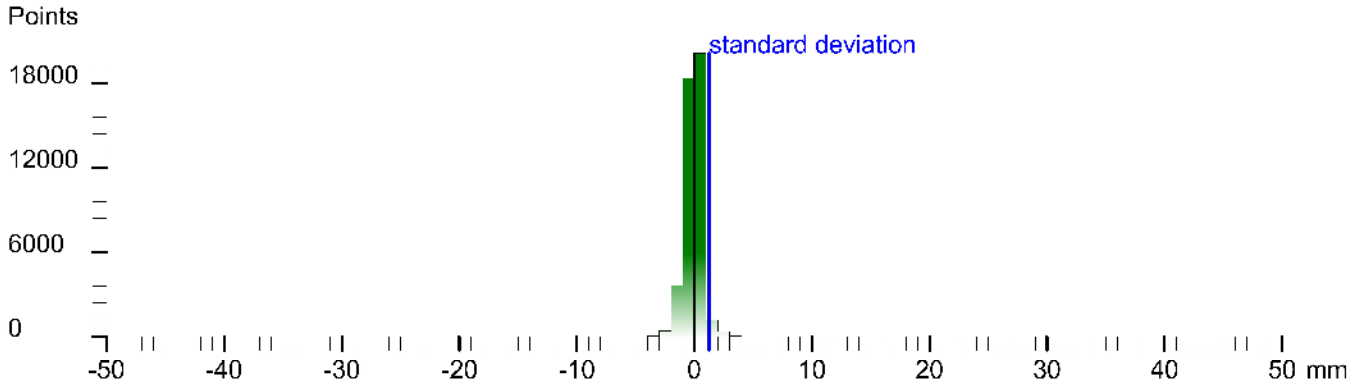
```

-0.018644  0.999827  -0.000044  3.4704 m
-0.999826  -0.018643  0.001735  6.0625 m
 0.001734  0.000077  0.999999  2.1319 m
 0.000000  0.000000  0.000000  1.0000

```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '194'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

System: [unreadable]

```

Registration matrix recorded
Base motion: [unreadable] m
New rotation: [unreadable]
New rotation: [unreadable]
Registration matrix: [unreadable]
FH data profile: [unreadable]
[unreadable]
[unreadable]
[unreadable]
[unreadable]

```

Level system info: dynamic compensator available.



Scan position '195'

Scan position is member of group(s):

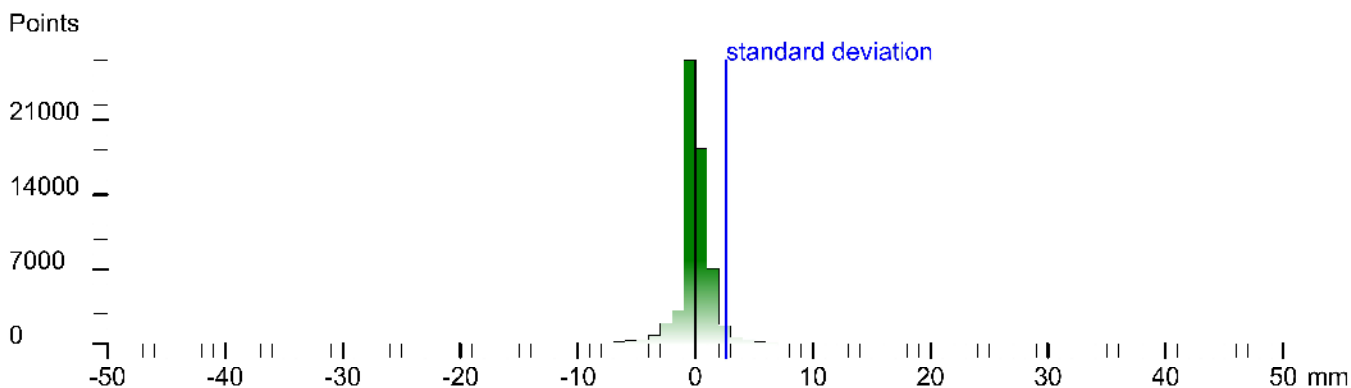
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

0.403181	-0.915121	0.000566	4.4837 m
0.915120	0.403182	0.001474	17.8897 m
-0.001576	-0.000077	0.999999	5.4884 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.6 mm

Deviation histogram



Scan '195'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000000 m x 3.000000 m (area = 12.000000 m²) | Position: 51.024600° N, 12.483700° E, 5.520700 m | Accuracy: 6.3207 m | 0.0001

Station:

Registration: 10870 | Parameter: transition: recorded

Base station: 216246 | E: 12.4837 m

Height: 5.5207 m | Accuracy: 6.3207 m | 0.0001

Resolution: 6.3207 m | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001

Operator: operator

Comment: comment

Operator: operator

Comment: comment

Operator: operator

Level system info: dynamic compensator available.



Scan position '196'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

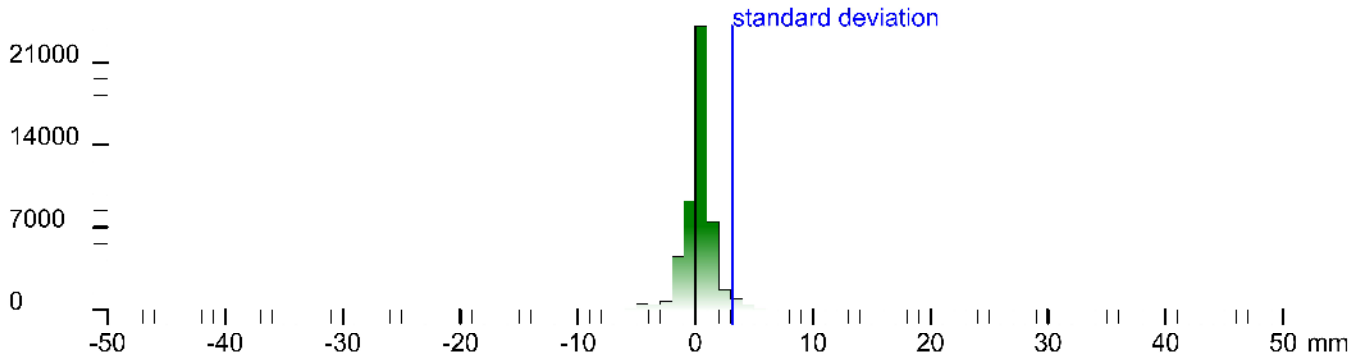
Registration matrix:

```
-0.904620 -0.426219 0.000752 1.7736 m  
0.426219 -0.904621 0.000500 19.6839 m  
0.000466 0.000771 1.000000 5.4873 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:3.1 mm

Deviation histogram

Points



Scan '196'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00 x 3.00 m (13.12 x 9.84 ft) Scan resolution: 0.25 mm (0.01 in) Scan range: 0.25 m (10 in) Scan speed: 0.25 m/s (10 in/s) Scan time: 0.25 s (10 ms) Scan date: 2013-10-15 10:00:00

Registration: 10871 (cloud to cloud) registration

Registration: 21921 (to 24.0412 m)

Registration: 21921 (to 24.0412 m) Accuracy: 9.8150 m (32.190 ft) 0.0001

Registration: 21921 (to 24.0412 m) Accuracy: 9.8150 m (32.190 ft) 0.0001

Registration: 21921

Registration: 21921

Registration: 21921

Registration: 21921

Registration: 21921

Registration: 21921

Level system info: dynamic compensator available.



Scan position '197'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

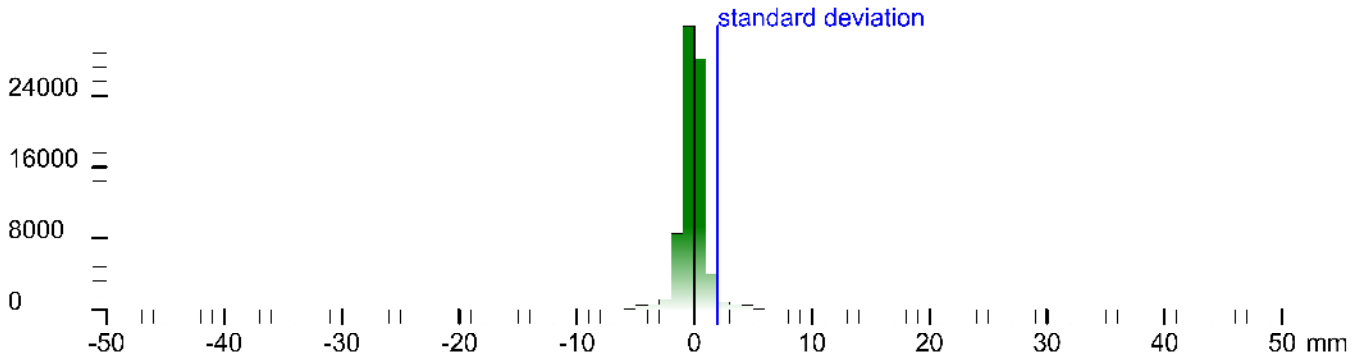
Registration matrix:

```
-0.956140  0.292914  0.000714  -1.8274 m
-0.292914 -0.956140 -0.000390  18.4300 m
0.000567 -0.000583  1.000000  5.4916 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram

Points



Scan '197'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2017-08-10 12:44:00 (UTC)
Scan ID: 102h
Registration matrix:
-0.956140  0.292914  0.000714  -1.8274 m
-0.292914 -0.956140 -0.000390  18.4300 m
0.000567 -0.000583  1.000000  5.4916 m
0.000000  0.000000  0.000000  1.0000
Standard deviation: 2.0 mm
Scan resolution: High
Scan quality: Normal
```

Level system info: dynamic compensator available.



Scan position '198'

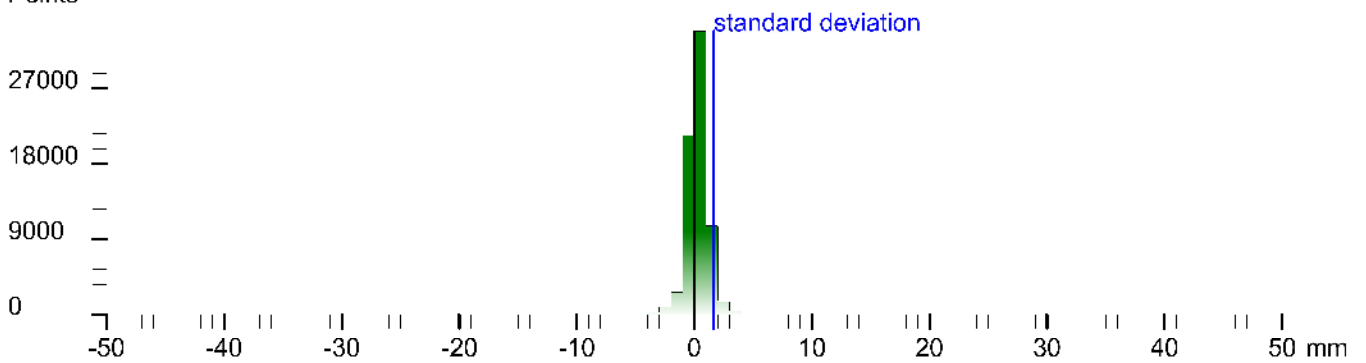
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.855111 -0.518446 0.000093 -3.1957 m
0.518446 -0.855111 0.001365 21.9333 m
-0.000629 0.001213 1.000000 5.4924 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '198'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00 x 3.50 m (13.12 x 11.48 ft) Scan resolution: 0.25 mm (0.01 in) Scan quality: High Scan mode: Normal Scan resolution: 0.25 mm (0.01 in) Scan quality: High Scan mode: Normal

```
Registration: 102h [102h] registered with cloud to cloud
Registration matrix:
-0.855111 -0.518446 0.000093 -3.1957 m
0.518446 -0.855111 0.001365 21.9333 m
-0.000629 0.001213 1.000000 5.4924 m
0.000000 0.000000 0.000000 1.0000
Standard deviation: 1.6 mm
```

Level system info: dynamic compensator available.



Scan position '2'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

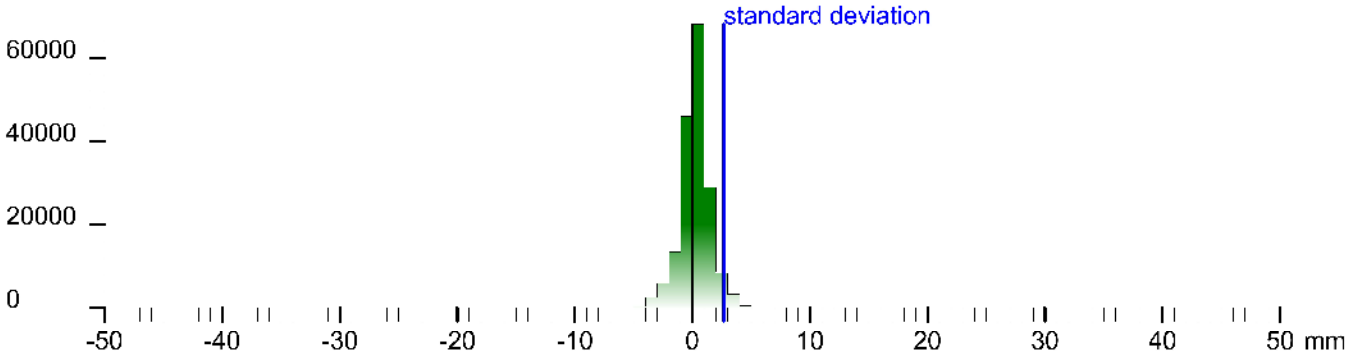
Registration matrix:

-0.696200 0.717848 0.000345 -0.2178 m
-0.717848 -0.696200 -0.000048 -2.7284 m
0.000206 -0.000281 1.000000 0.0572 m
0.000000 0.000000 0.000000 1.0000

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram

Points



Scan '2'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scanned: 4.11.2024 10:44:56 (1:25) File: ZFImager5016-Serie_5016-0100-Scan_001-0102.ply | Position: 41.104701 46.794311 62.898155 | Orientation: 0.0100 0.0000 0.0000 0.0000 | Date: 4.11.2024 10:44:56  
Series:  
Registration: 102h | Parameter: transition | registration:  
Euler matrix: 0.12197 0.57773 0  
ref: translation: 41.104701 46.794311 62.898155 m | scale: 0.0100 0.0100 0.0100 m  
ref: rotation: 0.0100 0.0000 0.0000 | rotation: 0.0100 0.0000 0.0000  
registration:  
RS: 102h | 4.11.2024 10:44:56 | resolution: height: 100.000 | step: 2 | index: 1.000 | start: 1.000 | end: 4.000 | band: 1 | color: 2D | roll: 0 |  
pitch: 0.000 | yaw: 0.000 | zone: 360  
File: registration: (operator)  
operator: Carli | C.C. | 1965  
operator: Carli | C.C. | 1965  
operator: Carli | C.C. | 1965  
operator: Carli | C.C. | 1965
```

Level system info: dynamic compensator available.



Scan position '20'

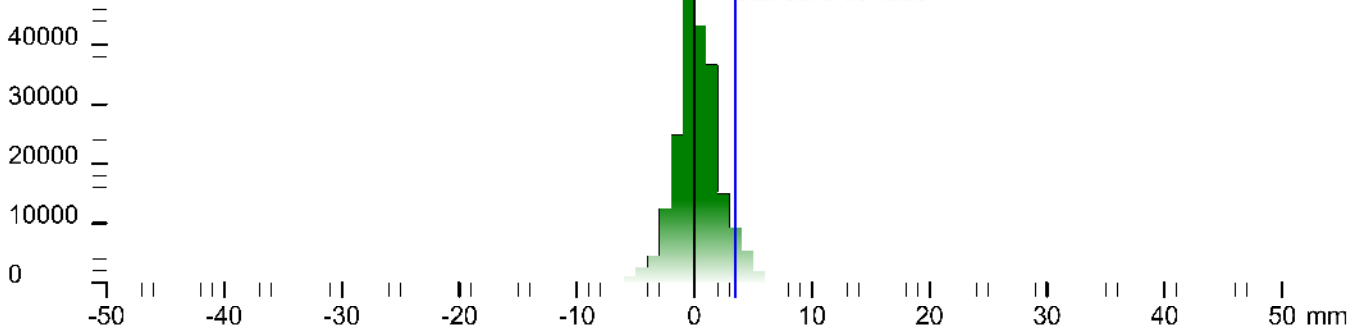
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

0.513460	0.858113	0.001124	12.4835 m
-0.858114	0.513459	0.001091	27.1176 m
0.000359	-0.001525	0.999999	0.6005 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 3.5 mm

Deviation histogram

Points

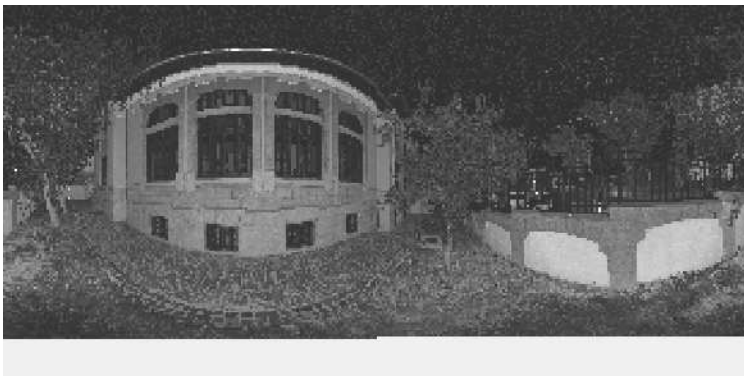


Scan '20'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2023-08-04 10:00:00 (UTC+02:00) [102h] registered with cloud to cloud  
Scan position: 20  
Scan matrix: [0.513460 0.858113 0.001124 12.4835 m  
-0.858114 0.513459 0.001091 27.1176 m  
0.000359 -0.001525 0.999999 0.6005 m  
0.000000 0.000000 0.000000 1.000000]  
Registration matrix:  
0.513460 0.858113 0.001124 12.4835 m  
-0.858114 0.513459 0.001091 27.1176 m  
0.000359 -0.001525 0.999999 0.6005 m  
0.000000 0.000000 0.000000 1.000000  
Level system info: dynamic compensator available.
```



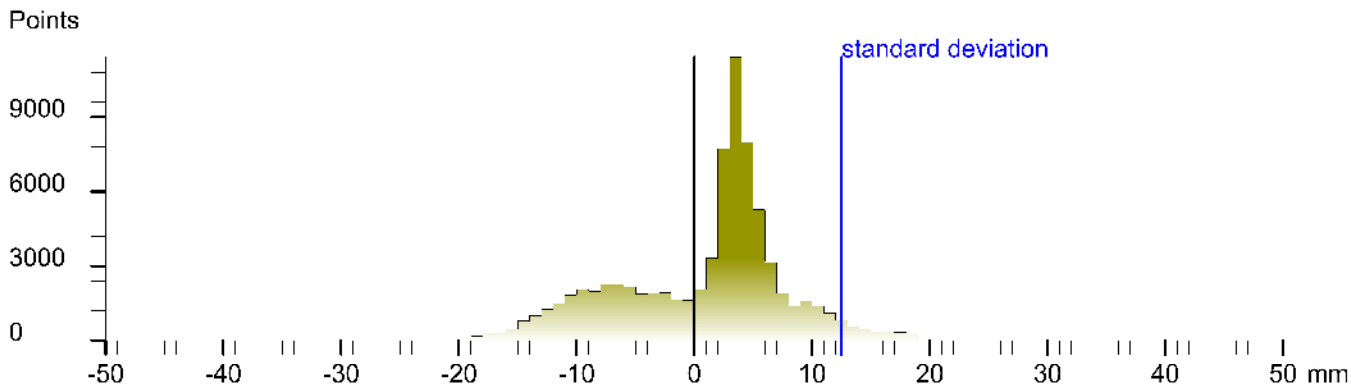
Scan position '201'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.724901 -0.688853 -0.000946 18.9133 m
0.688854 -0.724902 0.000187 21.4248 m
-0.000815 -0.000518 1.000000 5.4847 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 12.5 mm

Deviation histogram



Scan '201'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position '201' is member of group(s): [102h] registered with cloud to cloud

```
Registration matrix:
0.688854 -0.724902 0.000187 21.4248 m
-0.724901 -0.688853 -0.000946 18.9133 m
-0.000815 -0.000518 1.000000 5.4847 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



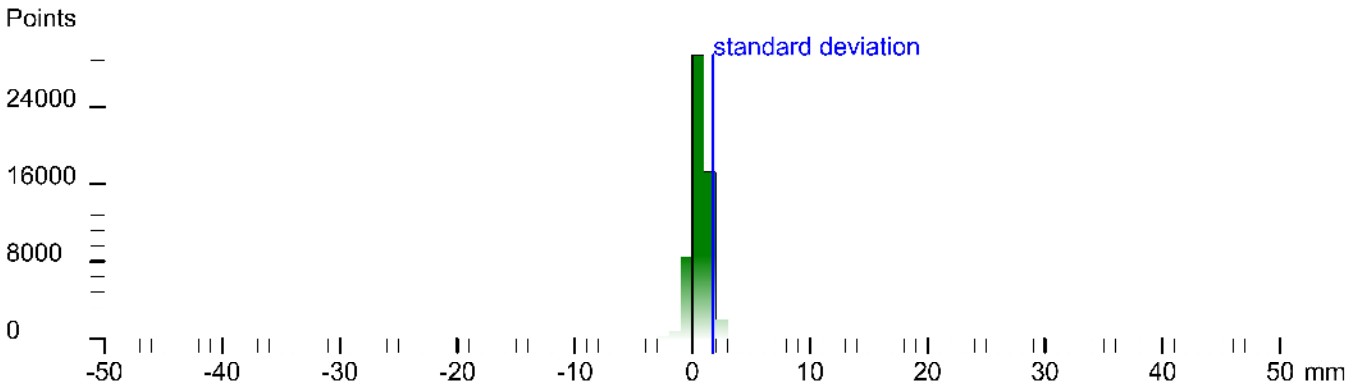
Scan position '203'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.510684 0.859769 0.000614 20.9777 m  
-0.859770 -0.510684 0.000277 19.6417 m  
0.000551 -0.000385 1.000000 5.4912 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram



Scan '203'

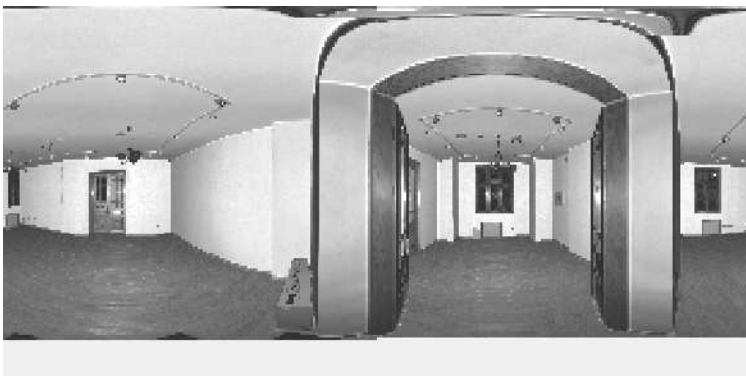
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned at 2024-10-23 11:02:41.000000 [UTC+02:00] by [redacted]  
Sector
```

```
Registration: 10871 [Parameter: transition recorded]  
Error matrix: [0.510684 0.859769 0.000614 20.9777 m]  
Registration: 10872 [Parameter: transition recorded]  
Error matrix: [0.859770 -0.510684 0.000277 19.6417 m]  
Registration: 10873 [Parameter: transition recorded]  
Error matrix: [0.000551 -0.000385 1.000000 5.4912 m]  
Registration: 10874 [Parameter: transition recorded]  
Error matrix: [0.000000 0.000000 0.000000 1.000000]
```

Level system info: dynamic compensator available.



Scan position '204'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

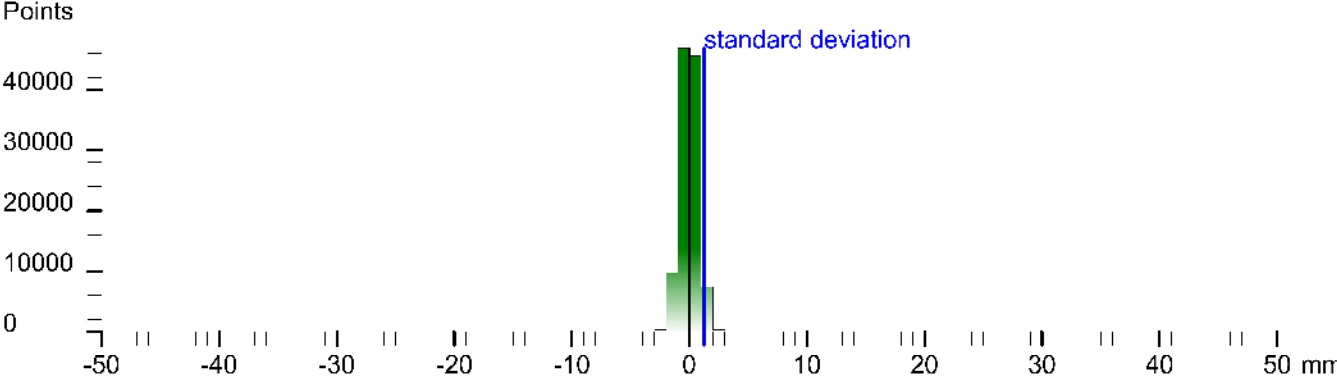
```

-0.487597  0.873070  0.000528  24.2389 m
-0.873071 -0.487597 -0.000643  16.1248 m
-0.000305 -0.000773  1.000000   5.4946 m
0.000000  0.000000  0.000000   1.0000

```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram



Scan '204'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned: 2025-06-10 12:14:15.121
Point cloud: 119894 points
Scan resolution: 0.25 mm
Registration: cloud to cloud
Registration matrix:
-0.487597  0.873070  0.000528  24.2389 m
-0.873071 -0.487597 -0.000643  16.1248 m
-0.000305 -0.000773  1.000000   5.4946 m
0.000000  0.000000  0.000000   1.0000

```

Level system info: dynamic compensator available.



Scan position '205'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

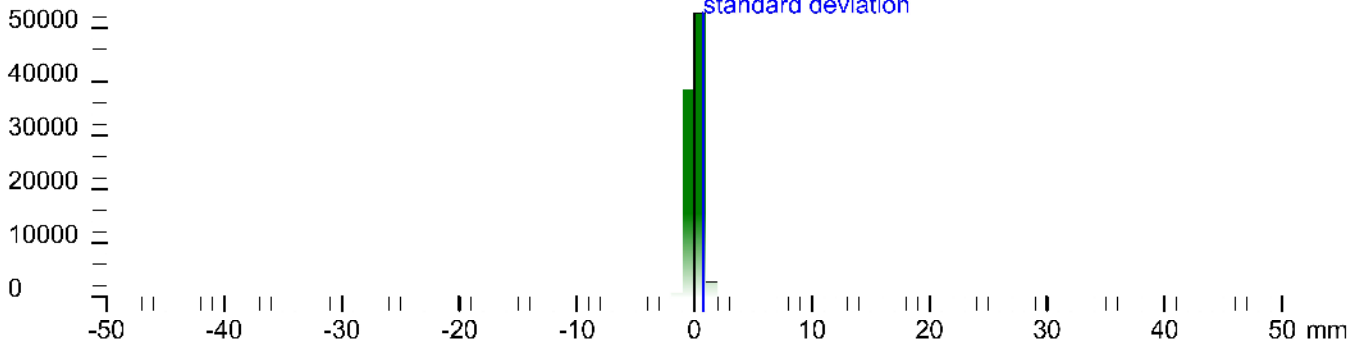
Registration matrix:

```
-0.674265  0.738490  0.000722  21.6725 m  
-0.738491  -0.674265  -0.000933  15.2538 m  
-0.000204  -0.001162  1.000000  5.4962 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 0.8 mm

Deviation histogram

Points



Scan '205'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

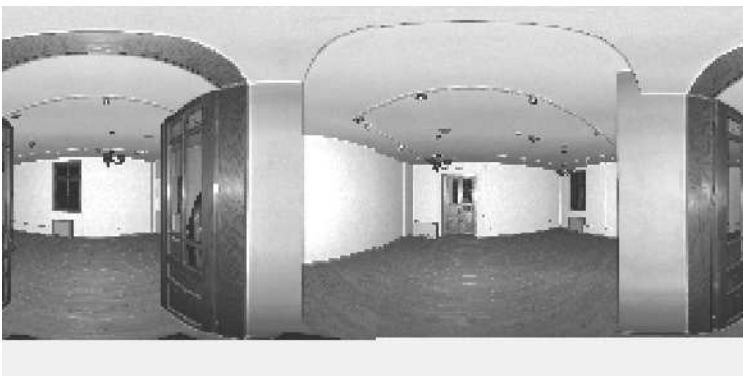
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 102h registered with cloud to cloud standard deviation: 0.8 mm

```
Registration matrix:  
-0.674265  0.738490  0.000722  21.6725 m  
-0.738491  -0.674265  -0.000933  15.2538 m  
-0.000204  -0.001162  1.000000  5.4962 m  
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '206'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

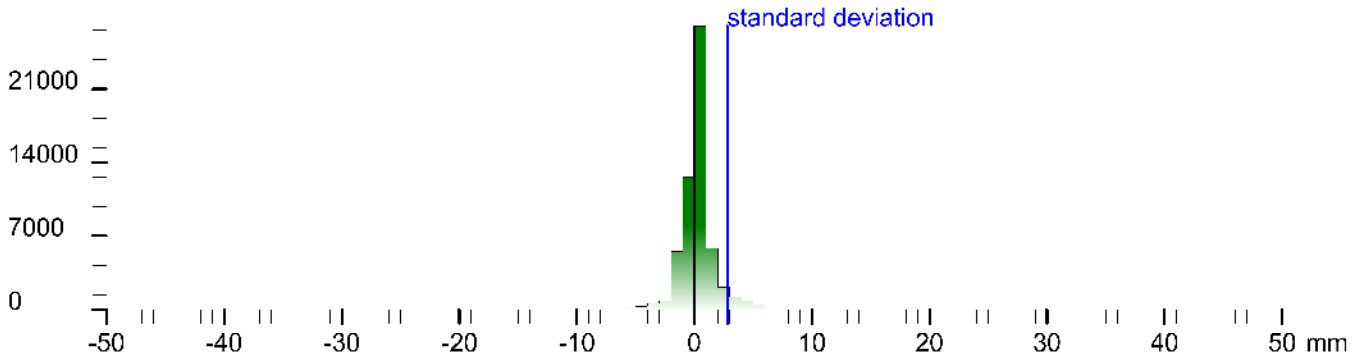
Registration matrix:

0.572041	0.820226	0.001204	24.5463 m
-0.820227	0.572041	0.000259	11.8053 m
-0.000475	-0.001134	1.000000	5.4924 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.8 mm

Deviation histogram

Points



Scan '206'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

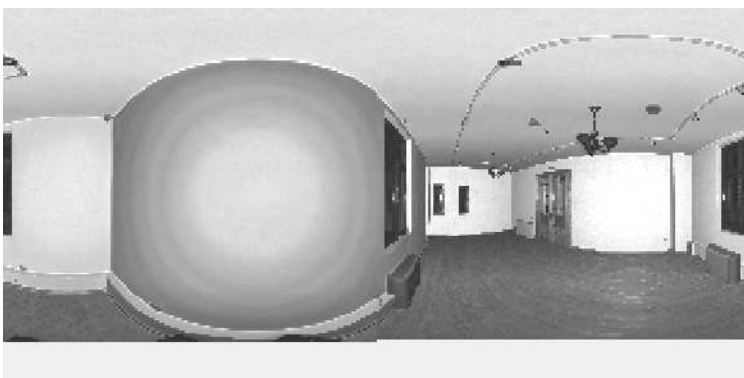
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00 m x 4.00 m (20.00 m x 20.00 m) [102h] registered with cloud to cloud

Registration matrix: 0.572041 0.820226 0.001204 24.5463 m
-0.820227 0.572041 0.000259 11.8053 m
-0.000475 -0.001134 1.000000 5.4924 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



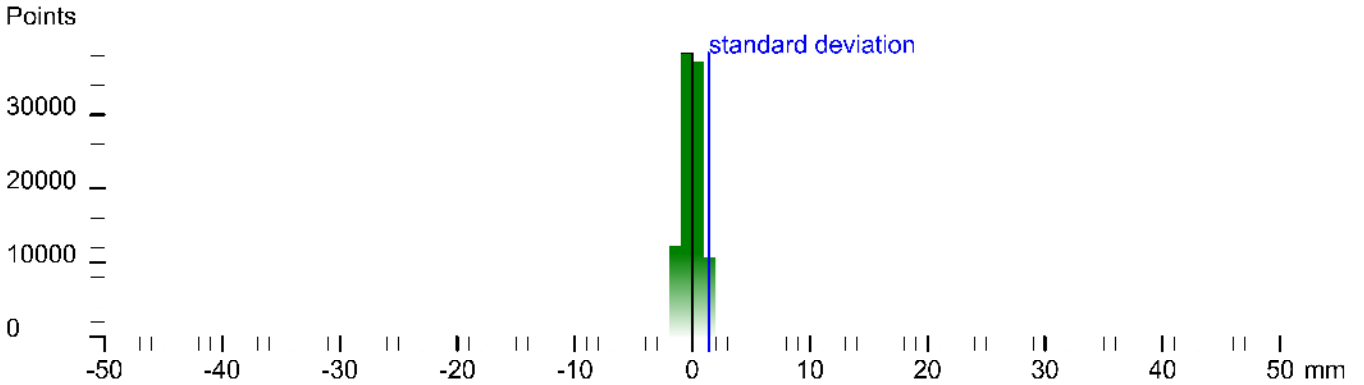
Scan position '207'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.997075 -0.076429 -0.000225 20.1791 m  
0.076430 -0.997077 -0.000534 13.6905 m  
-0.000186 -0.000549 1.000000 5.4949 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram



Scan '207'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 102h registered with cloud to cloud

```
Registration matrix:  
-0.997075 -0.076429 -0.000225 20.1791 m  
0.076430 -0.997077 -0.000534 13.6905 m  
-0.000186 -0.000549 1.000000 5.4949 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '208'

Scan position is member of group(s):

Status registration '[10023h] preregistered, manually'

Registration matrix:

```
-0.628685 -0.777662 0.000001 12.7748 m
0.777662 -0.628685 0.000000 22.0205 m
0.000000 0.000000 1.000000 -1.1398 m
0.000000 0.000000 0.000000 1.0000
```

Scan '208'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

Scan position: [10023h] preregistered, manually
Scan position: [10023h] preregistered, manually

```
Parameter: 005 - Scanner serial number: 5016-0100
Parameter: 010 - Scanner resolution: 0.150000 m
Scan position: 11851 m - 5.2721 m - 20.3831 m axis order: 123/43 m - 29/43 m - 1.0001 m
Scan resolution: 0.0000 0.0000 251.3459 axis order: 0.0000 0.0000 15.0000
Operator: [10023h] preregistered, manually
0.628685 0.777662 0.000000 12.7748
0.777662 -0.628685 0.000000 22.0205
0.000000 0.000000 1.000000 -1.1398
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '209'

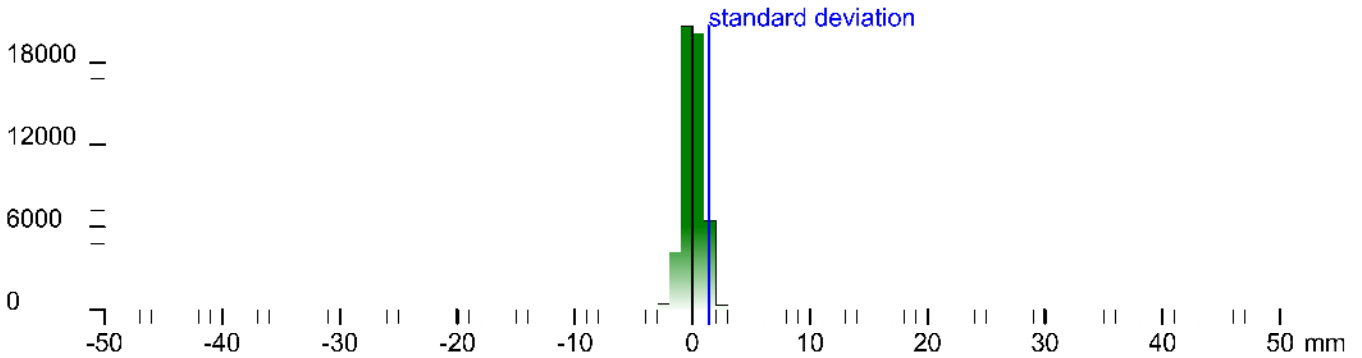
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.595160  0.803609  0.000580  13.0633 m
-0.803609 -0.595160 -0.000458  19.0505 m
-0.000024 -0.000738  1.000000  0.4211 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '209'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with: 2023-08-10 10:21:00 (UTC+02:00) File: C:\Users\user\Documents\Scans\209\209_2023-08-10_10:21:00.ctb
Sensor:
  Resolution: 1080 x 1080 (mm)
  Base rotation: 216216 (°)
  Horizontal range: 2.15477 m
  Vertical range: 0.97035 m
  Horizontal accuracy: ±0.000458 m
  Vertical accuracy: ±0.000580 m
  Horizontal resolution: 0.000458 m
  Vertical resolution: 0.000580 m
  Horizontal accuracy: ±0.000458 m
  Vertical accuracy: ±0.000580 m
  Horizontal resolution: 0.000458 m
  Vertical resolution: 0.000580 m
```

Level system info: dynamic compensator available.



Scan position '21'

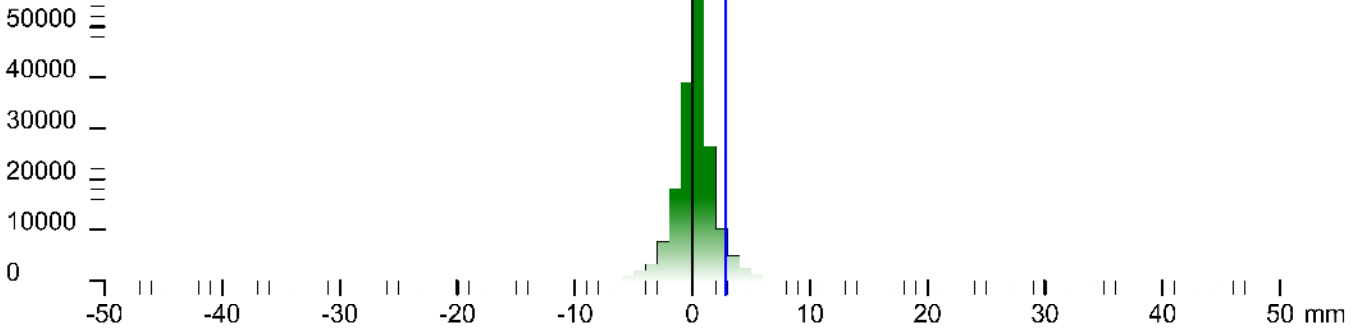
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.958069  0.286537  0.000669  6.9907 m  
-0.286537 -0.958069 -0.000082 24.9916 m  
0.000617 -0.000270 1.000000  0.1729 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.9 mm

Deviation histogram

Points



Scan '21'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2010-02-01 14:40:10 (UTC) File: C:\Program Files (x86)\Z+F\Imager 5016\Scans\2010-02-01 14:40:10\Scan_21_0100.ctb  
Series:  
  Name: '21' (102h) registration matrix:  
  Base station: 012580 East 3,4989 m  
  Rev. station: 018085 - 432748 m SW282 m (altitude: 67.982 m 67.982 m 0.010 m)  
  Rev. station: 020010 018085 - 652945 East station: 020010 East 15.0630 m  
  Registration matrix:  
  [0.958069, 0.286537, 0.000669, 6.9907, 0.000617, -0.000270, 1.000000, 0.1729, 0.000000, 0.000000, 0.000000, 1.000000]  
  File operator: (operator)  
  File: C:\Program Files (x86)\Z+F\Imager 5016\Scans\2010-02-01 14:40:10\Scan_21_0100.ctb  
  File: C:\Program Files (x86)\Z+F\Imager 5016\Scans\2010-02-01 14:40:10\Scan_21_0100.ctb  
  File: C:\Program Files (x86)\Z+F\Imager 5016\Scans\2010-02-01 14:40:10\Scan_21_0100.ctb
```

Level system info: dynamic compensator available.



Scan position '210'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

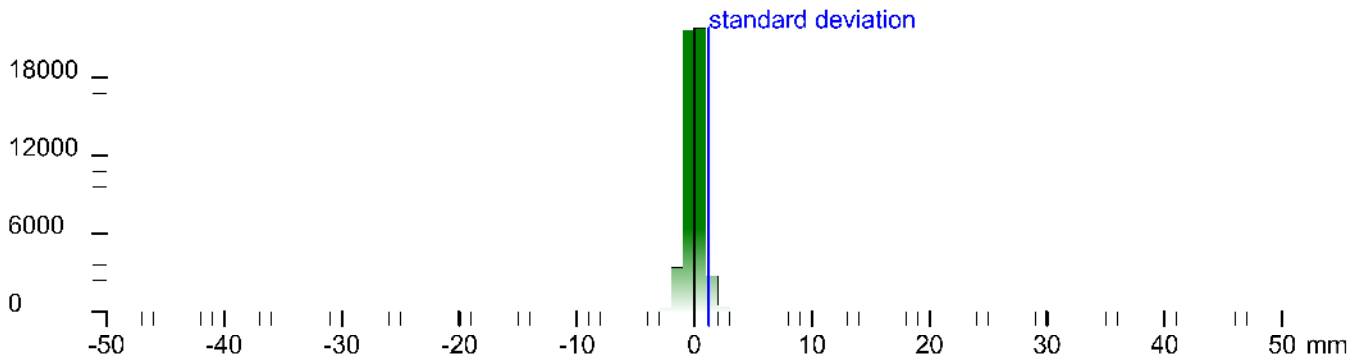
Registration matrix:

```
-0.848806 -0.528708 -0.000739 11.7655 m
 0.528708 -0.848805 -0.000500 18.4913 m
-0.000364 -0.000816  1.000000  1.1066 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



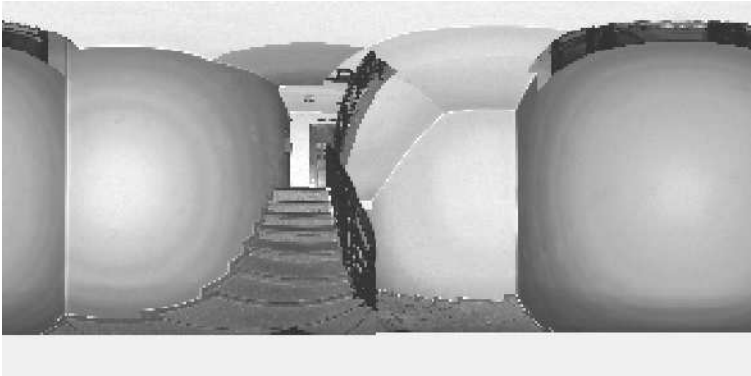
Scan '210'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2020-10-29 15:50:55  
Scanner: Z+F IMAGER 5016  
Scan position: 210  
Registration matrix: -0.848806 -0.528708 -0.000739 11.7655 m  
0.528708 -0.848805 -0.000500 18.4913 m  
-0.000364 -0.000816 1.000000 1.1066 m  
0.000000 0.000000 0.000000 1.0000  
Resolution: High  
Quality: Normal  
Level system info: dynamic compensator available.
```



Scan position '211'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

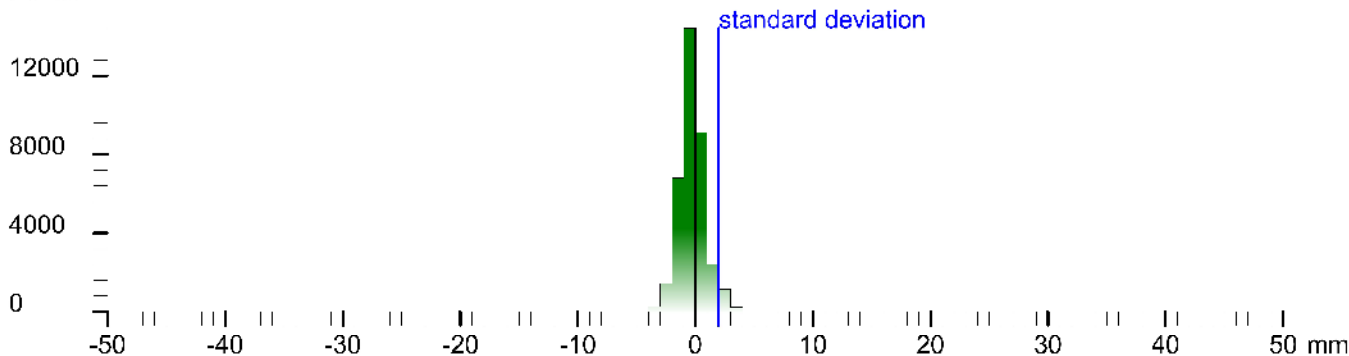
Registration matrix:

```
-0.947989  0.318311  -0.000083  11.4665 m
-0.318311  -0.947988  -0.000274  21.8566 m
-0.000168  -0.000233  1.000000   2.6386 m
0.000000   0.000000   0.000000   1.0000
```

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram

Points



Scan '211'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned on: 2015-10-02 14:58:00 (UTC+02:00)
Scanner: Z+F IMAGER 5016
Scan resolution: High
Scan quality: Normal
Scan position: 211
Registration matrix:
-0.947989  0.318311  -0.000083  11.4665 m
-0.318311  -0.947988  -0.000274  21.8566 m
-0.000168  -0.000233  1.000000   2.6386 m
0.000000   0.000000   0.000000   1.0000
Standard deviation: 2.0 mm

```

Level system info: dynamic compensator available.



Scan position '213'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

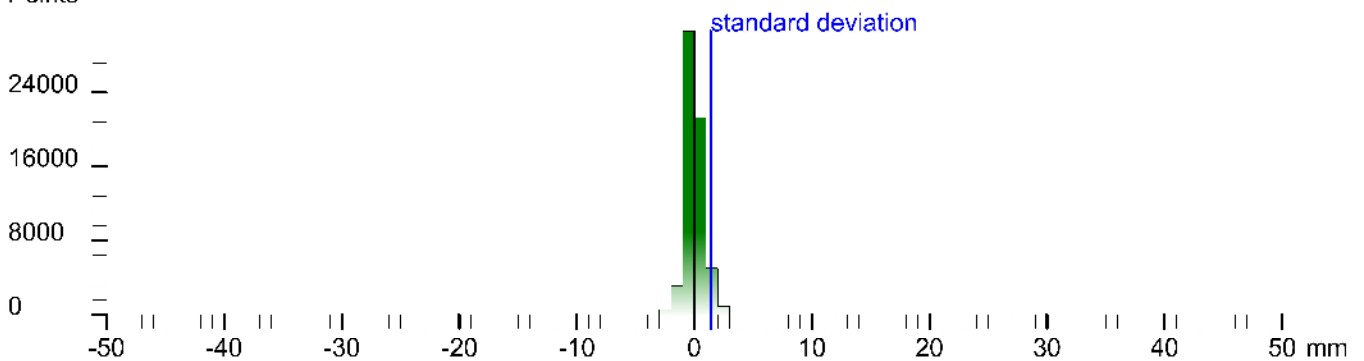
Registration matrix:

```
-0.846148 -0.532952 -0.000272 11.9245 m  
0.532952 -0.846147 -0.000430 18.5250 m  
-0.000002 -0.000510 1.000000 4.5440 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '213'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

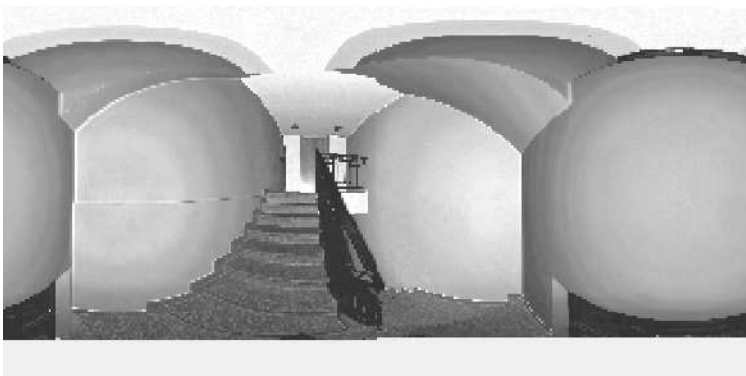
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan area: 4.000000 m x 3.000000 m (Scan ID: 213) Scan date: 2023-08-10 10:00:00 (Scan ID: 213) Scan time: 00:00:00 (Scan ID: 213) Scan resolution: 0.250000 mm (Scan ID: 213) Scan quality: Normal (Scan ID: 213) Scan status: Registered (Scan ID: 213) Scan registration: Cloud to cloud (Scan ID: 213) Scan registration standard deviation: 1.400000 mm (Scan ID: 213)

```
Registration matrix:  
-0.846148 -0.532952 -0.000272 11.9245 m  
0.532952 -0.846147 -0.000430 18.5250 m  
-0.000002 -0.000510 1.000000 4.5440 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '215'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

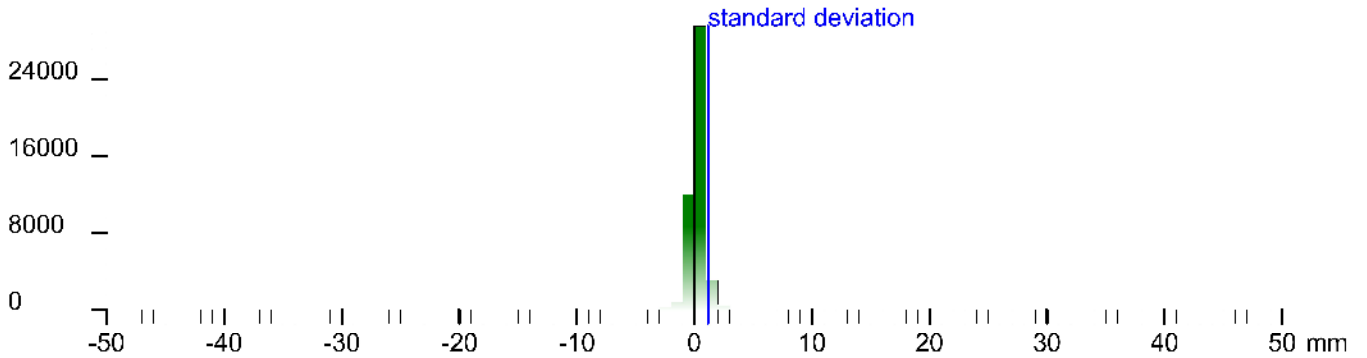
Registration matrix:

```
0.713310 -0.700852 -0.000511 12.0628 m
0.700851 0.713309 0.001367 22.8584 m
-0.000593 -0.001334 0.999999 6.0918 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



Scan '215'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned Area: 4.00 x 3.00 m (13.12 x 9.84 ft) | DTG: 2024-10-09 10:30:00 | File: S:\01_2024_10\09_10_2024_10_09_10_30_00\215_0100_2024_10_09_10_30_00\215_0100_2024_10_09_10_30_00_Scan.pnt

```
Registration: 100% (no manual intervention required)
Base Station: 216180; 127.3052 m
New Station: 216181; 12.102 m; 0.1177 m; 0.0000; 0.0000; 0.0000; 0.0000 m; 0.0000 m
New Station: 0.0000; 0.0000; 0.0000; 0.0000; 0.0000; 0.0000; 0.0000; 0.0000
Registration:
Euler's rotation (degrees):
0.847 6.235 0.000 -26.476
0.887 0.267 0.000 26.298
0.000 0.000 1.000 0.000
0.000 0.000 0.000 1.000
```

Level system info: dynamic compensator available.



Scan position '217'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
-0.720503 -0.693453 0.000115 0.5134 m
0.693452 -0.720503 0.000842 7.7918 m
-0.000501 0.000687 1.000000 -2.7350 m
0.000000 0.000000 0.000000 1.0000
```

Scan '217'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

```
Scan position: [10123h] preregistered with cloud to cloud, manually'
Scan position: [10123h] preregistered with cloud to cloud, manually'
```

```
Resolution: 0.05 mm/pixel resolution to cloud
Resolution: 0.17/0.25 mm/pixel to cloud
Scan position: [10123h] preregistered with cloud to cloud, manually'
Scan position: [10123h] preregistered with cloud to cloud, manually'
Resolution: 0.05 mm/pixel resolution to cloud
Resolution: 0.17/0.25 mm/pixel to cloud
Scan position: [10123h] preregistered with cloud to cloud, manually'
Scan position: [10123h] preregistered with cloud to cloud, manually'
```

Level system info: no information about the level system stored in the zfs header



Scan position '219'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

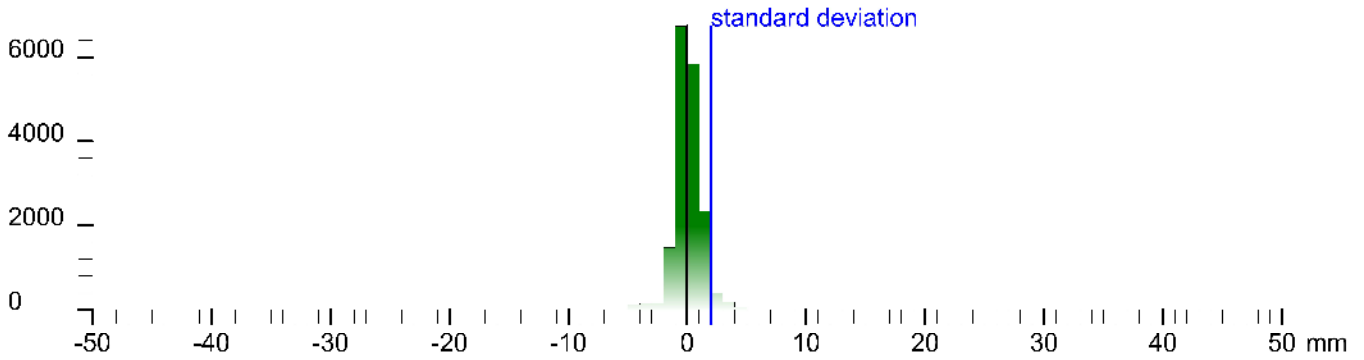
Registration matrix:

-0.511606	0.859104	0.014136	1.5909 m
-0.859203	-0.511632	-0.001986	4.9170 m
0.005526	-0.013161	0.999899	-2.7742 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:2.0 mm

Deviation histogram

Points



Scan '219'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

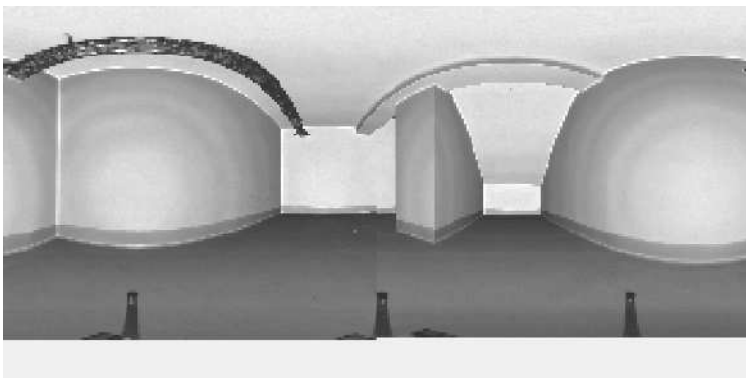
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Some data is not available in this scan, please refer to the data for the level system information in the zfs header

registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h
 registration: 102h

Level system info: no information about the level system stored in the zfs header



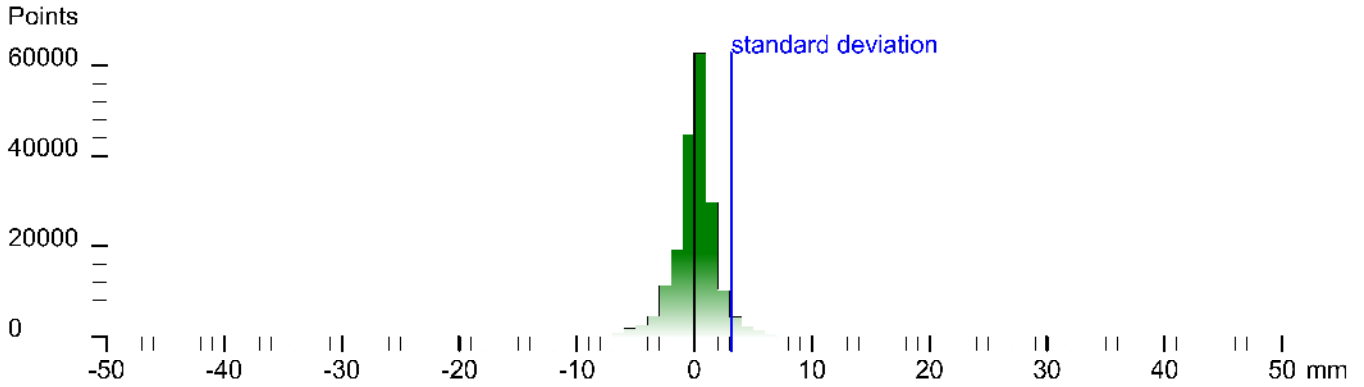
Scan position '22'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.936200 0.351468 0.000927 3.6312 m
-0.351469 0.936199 0.001397 26.3203 m
-0.000377 -0.001634 0.999999 0.3255 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 3.1 mm

Deviation histogram



Scan '22'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned: 4/10/2024 12:41:51.000 [0.000000, 0.000000, 0.000000] [0.000000, 0.000000, 0.000000] [0.000000, 0.000000, 0.000000] [0.000000, 0.000000, 0.000000]
Sensor:
Resolution: 140" (3.5mm) horizontal resolution
Error matrix: 0.12584 0.07306 0.00000
New rotation: 2.181 0.122342 2.25378 0.000000 6.1901 0.67590 0.00100 m
New rotation: 0.000000 0.000000 26.6221 0.000000 0.000000 0.000000 0.000000
Registration:
RST: R(45.478527) t(35.000783) s(0.000000) height: 0.2m from 0.0m step: 0.4m max: 17.0m width: 12.0m range: 30.0m from: 0.0m to: 17.0m
Level system: (operator)
L: 0.000000 0.000000 0.000000
A: 0.000000 0.000000 0.000000
T: 0.000000 0.000000 0.000000
0.000000 0.000000 1.000000
```

Level system info: dynamic compensator available.



Scan position '220'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

0.682960	-0.730455	0.000044	-0.3357 m
0.730455	0.682961	0.000050	8.3530 m
-0.000066	-0.000003	1.000000	1.7396 m
0.000000	0.000000	0.000000	1.0000

Scan '220'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

Scan position: [10123h] preregistered with cloud to cloud, manually'

Scanner: Z+F IMAGER 5016 serial number: 5016-0100
Firmware: 9.0.3.6562-0
Resolution: 2,7825 mm x 2,7825 mm x 4,6576 mm accuracy: 7,7216 mm x 7,6216 mm x 0,0100 m
Scan resolution: 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000
Quality: High
Operator: [10123h] preregistered with cloud to cloud, manually'
Comment: [10123h] preregistered with cloud to cloud, manually'

Level system info: dynamic compensator available.



Scan position '223'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

-0.004062	-0.999992	0.000000	-2.1349 m
0.999992	-0.004062	0.000000	6.7560 m
0.000000	0.000000	1.000000	1.7232 m
0.000000	0.000000	0.000000	1.0000

Scan '223'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scan position: [10123h] preregistered with cloud to cloud, manually'  
Sensor:  
Resolution: 0.05 mm/pixel (horizontal resolution)  
Field of view: 3.131071 m x 2.17 m  
Max. distance: 14.765 m (1.200°) (max. distance: 1.1875 m (7.2970°) (0.000°) m  
Resolution: 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
Registration:  
Registration position: (0.000000)  
0.000000 0.000000 0.000000  
1.000000 0.000000 0.000000  
0.000000 0.000000 0.000000
```

Level system info: dynamic compensator available.



Scan position '224'

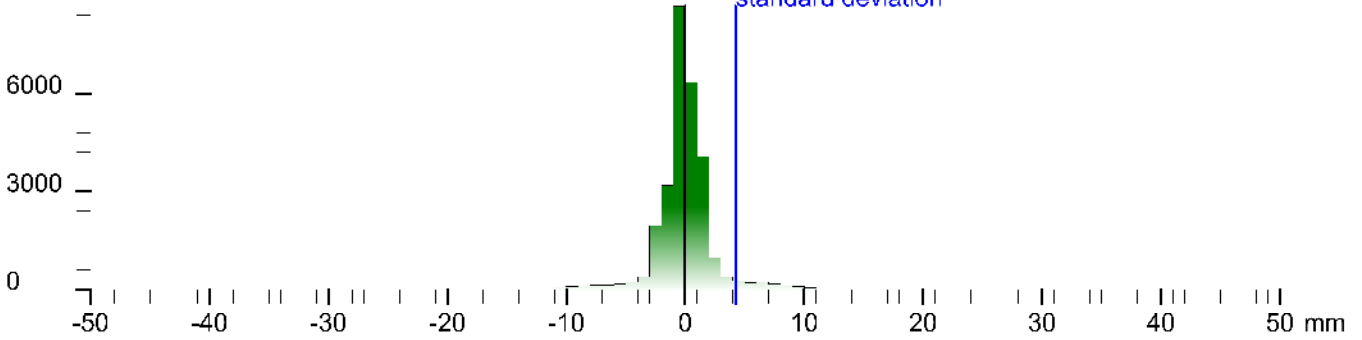
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.295413 -0.955370 -0.000188 -3.7803 m  
0.955370 -0.295413 -0.000098 6.8445 m  
0.000037 -0.000208 1.000000 1.7211 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:4.2 mm

Deviation histogram

Points



Scan '224'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 at 2014-08-15 14:23:12. Scan position: 224. Scan resolution: High. Scan quality: Normal. Scan status: Registered with cloud to cloud. Standard deviation: 4.2 mm. Scan area: 1.7211 m x 6.8445 m.

```
Registration matrix:  
0.295413 0.955370 0.000188 3.7803 m  
-0.955370 0.295413 0.000098 -6.8445 m  
-0.000037 0.000208 1.000000 1.7211 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '225'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

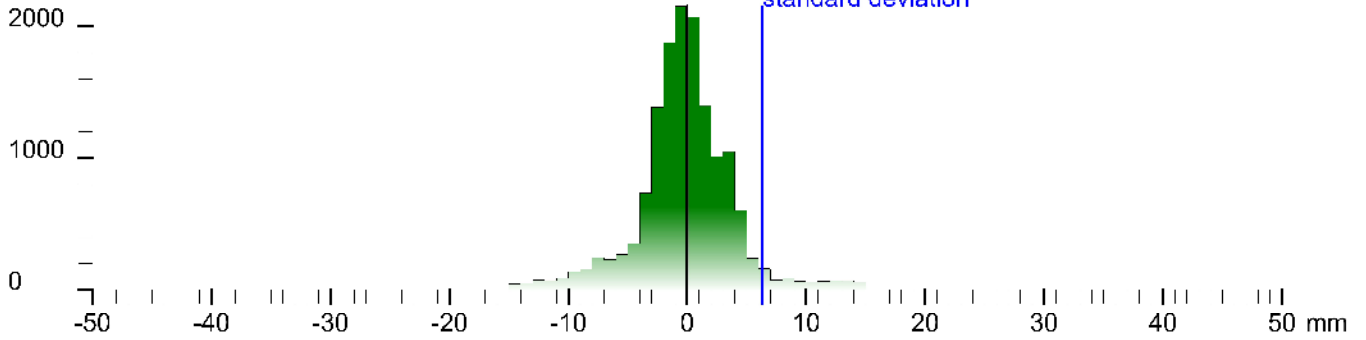
Registration matrix:

```
0.112681 -0.993632 -0.000098 -2.7569 m
0.993631 0.112681 -0.000568 7.4919 m
0.000574 -0.000034 1.000000 0.3382 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:6.3 mm

Deviation histogram

Points



Scan '225'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

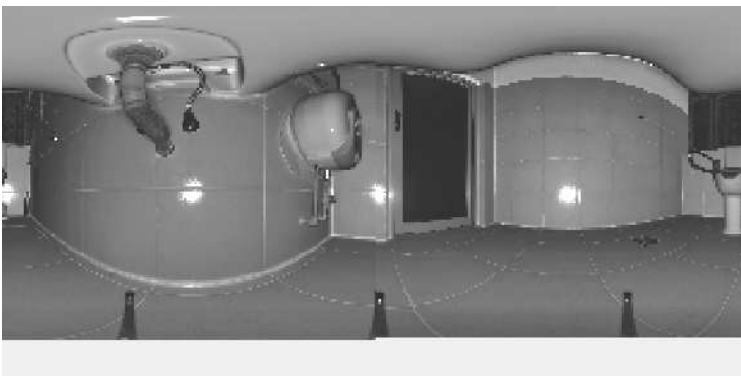
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 on 2019-10-23 10:23:00. Scan resolution: High, quality: Normal, scan mode: Cloud to cloud, registration: Cloud to cloud, standard deviation: 6.3 mm, scan area: 1.0 m x 1.0 m, scan range: 1.0 m, scan speed: 1.0 m/s, scan time: 1.0 s, scan date: 2019-10-23 10:23:00

```
point cloud: 1087138 points, registration: cloud to cloud
Error matrix: 0.112681 -0.993632 -0.000098 -2.7569 m
min. translation: 2.6959 m, 7.2802 m, 8.2390 m, max. translation: 8.2390 m, 7.2802 m, 2.6959 m
min. rotation: 0.000000 0.000000 0.000000, max. rotation: 0.000000 0.000000 0.000000
operator:
FH: data provider: Z+F Imager
CA04-0-010-0-00-00-0000
CA10-0-004-0-0-0-00-00-0000
CA10-0-004-0-0-0-00-00-0000
CA10-0-004-0-0-0-00-00-0000
```

Level system info: no information about the level system stored in the zfs header



Scan position '226'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

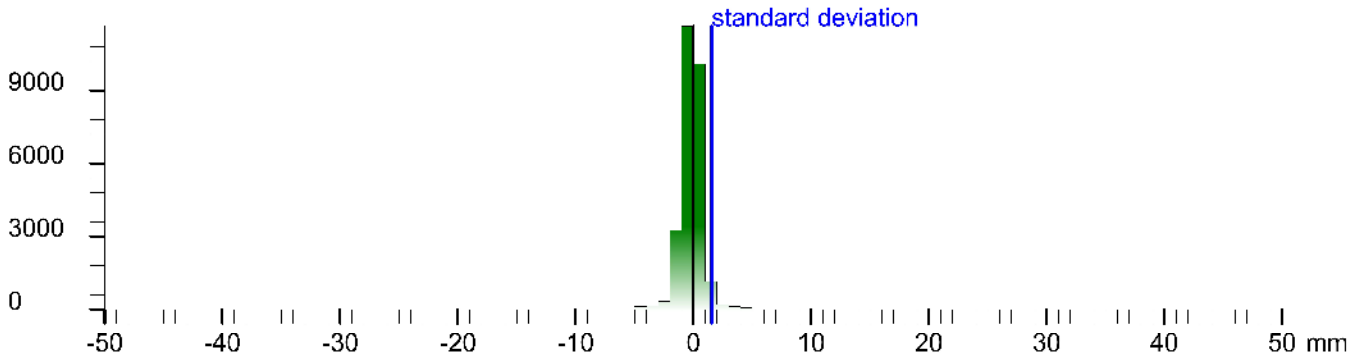
Registration matrix:

```
-0.135280 -0.990808 0.000116 -1.3455 m
0.990808 -0.135279 -0.000303 5.1527 m
0.000315 0.000074 1.000000 1.7339 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '226'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

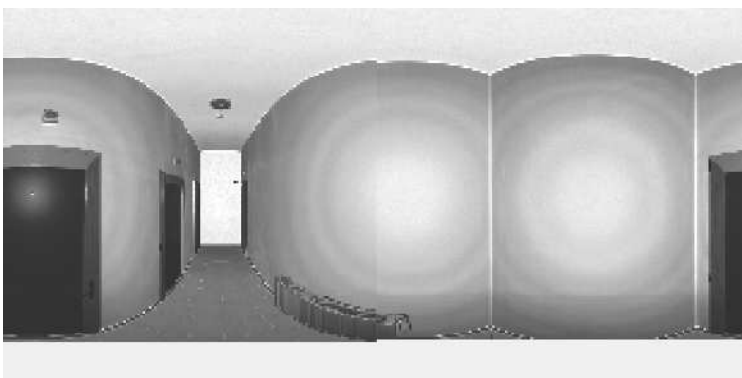
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned on 2023-09-08 10:24:00 (UTC) at 10:24:00 (UTC) with 102h registration with cloud to cloud standard deviation: 1.6 mm

```
Registration: 102h registration with cloud to cloud  
Error matrix: 0.14508 0.000116 -1.3455 m  
reg. translation: 4.1527 5.1527 -0.000303 m  
reg. rotation: 0.000315 0.000074 1.000000  
operator: [redacted]  
FH data path: [redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]
```

Level system info: dynamic compensator available.



Scan position '227'

Scan position is member of group(s):

Status registration '[10123h] preregistered with cloud to cloud, manually'

Registration matrix:

-0.137791	-0.990460	-0.001907	-2.2335 m
0.990461	-0.137793	0.000999	5.2188 m
-0.001253	-0.001752	0.999998	1.7296 m
0.000000	0.000000	0.000000	1.0000

Scan '227'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment

operator

Scan position: [10123h] preregistered with cloud to cloud, manually
Registration matrix:

```
Registration matrix:
Translation: [-2.2335, -2.2335, -0.001907] m
Rotation: [0.990461, -0.137793, 0.000999]
Scale: [1.000000, 1.000000, 1.000000]
Quality: [High]
Resolution: [Normal]
Scan position: [10123h] preregistered with cloud to cloud, manually
Registration matrix:
Translation: [-2.2335, -2.2335, -0.001907] m
Rotation: [0.990461, -0.137793, 0.000999]
Scale: [1.000000, 1.000000, 1.000000]
Quality: [High]
Resolution: [Normal]
Scan position: [10123h] preregistered with cloud to cloud, manually
```

Level system info: dynamic compensator available.



Scan position '229'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

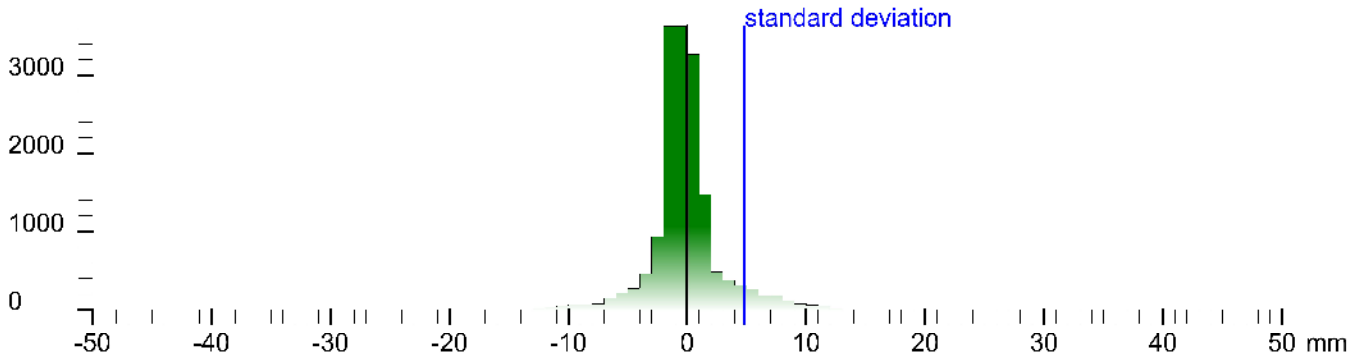
Registration matrix:

```
0.538809 -0.842394 -0.007606 -2.8379 m
0.842428 0.538778 0.005902 5.7926 m
-0.000874 -0.009588 0.999954 0.3444 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:4.8 mm

Deviation histogram

Points



Scan '229'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

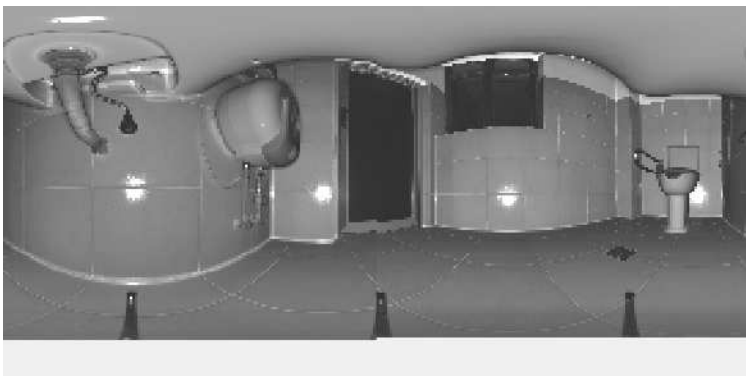
Metadata	Value
comment	
operator	

Scanned on: 2012-08-10 10:44:00 (UTC) File: 20120810_104400_001.zif File size: 107.4 MB File type: zif File format: zif File version: 1.0 File creation: 2012-08-10 10:44:00

Registration: 10871 (cloud to cloud) registration result:
Error matrix: [0.538809 -0.842394 -0.007606 -2.8379 m
0.842428 0.538778 0.005902 5.7926 m
-0.000874 -0.009588 0.999954 0.3444 m
0.000000 0.000000 0.000000 1.0000]

File info per file: 10871
0.538809 -0.842394 -0.007606 -2.8379 m
0.842428 0.538778 0.005902 5.7926 m
-0.000874 -0.009588 0.999954 0.3444 m
0.000000 0.000000 0.000000 1.0000

Level system info: no information about the level system stored in the zfs header



Scan position '230'

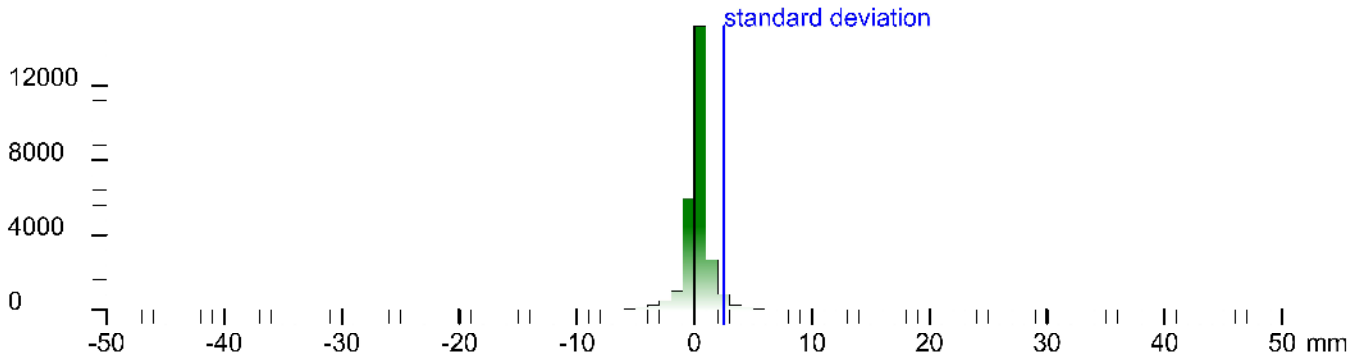
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.015314 -0.999883 -0.000439 1.7145 m  
0.999882 -0.015314 0.001471 8.7533 m  
-0.001479 -0.000417 0.999999 1.7291 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.5 mm

Deviation histogram

Points



Scan '230'

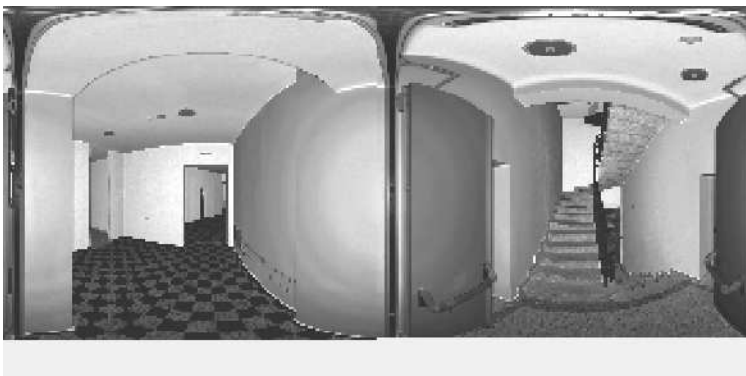
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2023-09-15 10:24:00 (UTC+02:00) Scan ID: 230 Scan Name: 230 Scan Location: 230 Scan Date: 2023-09-15 10:24:00 Scan Time: 2023-09-15 10:24:00 Scan Status: Success Scan File: 230 Scan Size: 15.16 MB Scan Resolution: 0.25 mm Scan Quality: Normal Scan Type: Cloud to Cloud

```
Registration: 102h  
Error matrix: 0.01472 0.001471 0.000439 1.7145 m  
0.999882 -0.015314 -0.000417 8.7533 m  
-0.001479 -0.000417 0.999999 1.7291 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



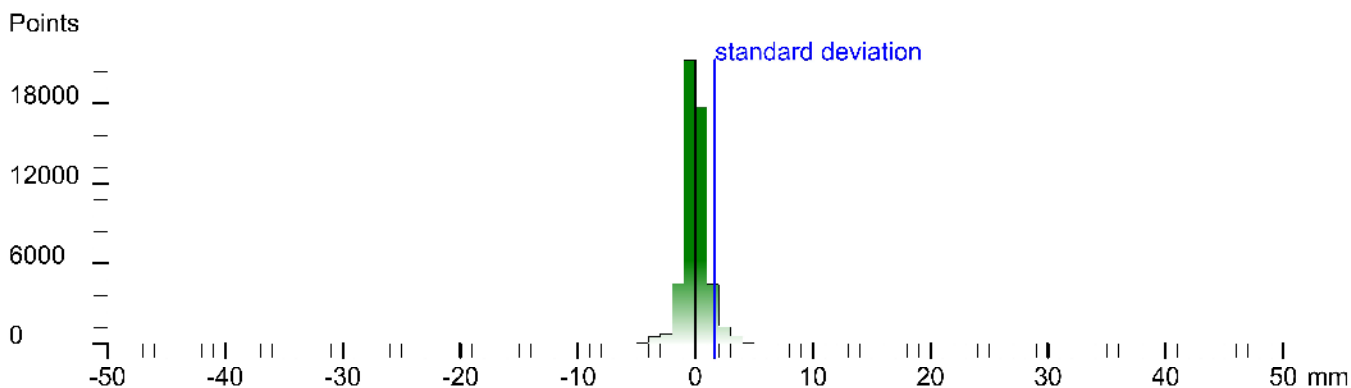
Scan position '231'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.877843 -0.478948 -0.000290 -0.7929 m
0.478949 -0.877843 0.000047 11.4051 m
-0.000278 -0.000097 1.000000 1.7269 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram



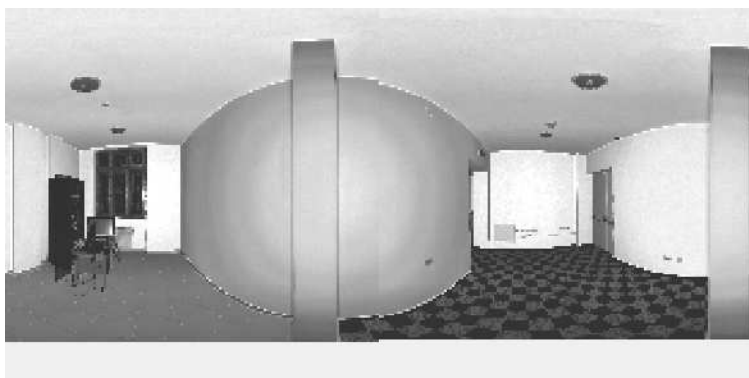
Scan '231'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F IMAGER 5016 serial number 5016-0100 Firmware 9.0.3.6562-0
Scanner
Resolution: 1080 x 1080 pixels
Barcode: 218998 137-518358 m
New registration: 47.7027 -42.9083 m (rotation: 7.3873 / 7.2573 in 0.0107 m
New registration: 500.000000 207.1659 m (rotation: 0.0000 0.0000 15.1630)
operator:
PH: data path: 0.0000
0.290 -0.457 0.000 -86.494
0.464 -0.290 0.000 -1.039
0.000 0.000 1.000 14.217
0.000 0.000 0.000 1.000
```

Level system info: dynamic compensator available.



Scan position '232'

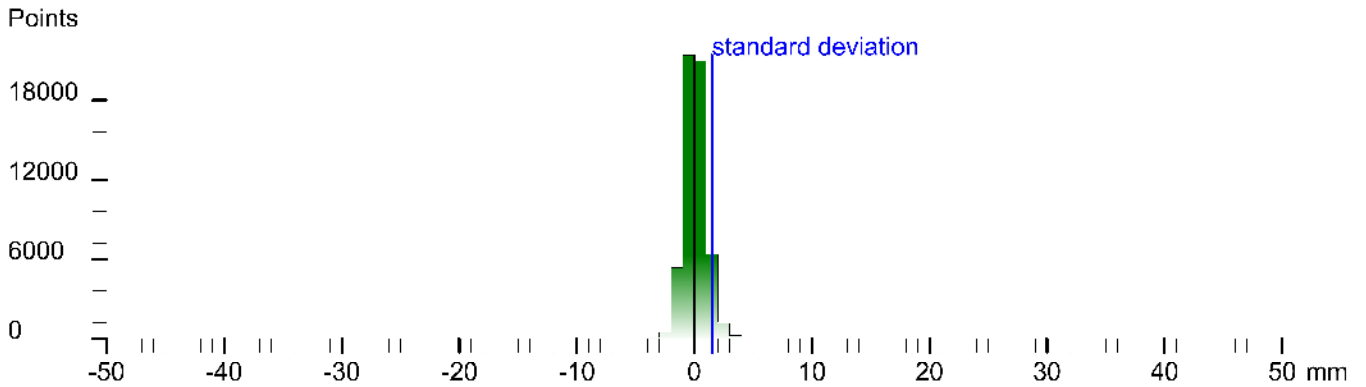
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

-0.946934  0.321429  0.000263  -3.4277 m
-0.321428 -0.946934  0.000462  12.0198 m
0.000398  0.000354  1.000000  1.7227 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



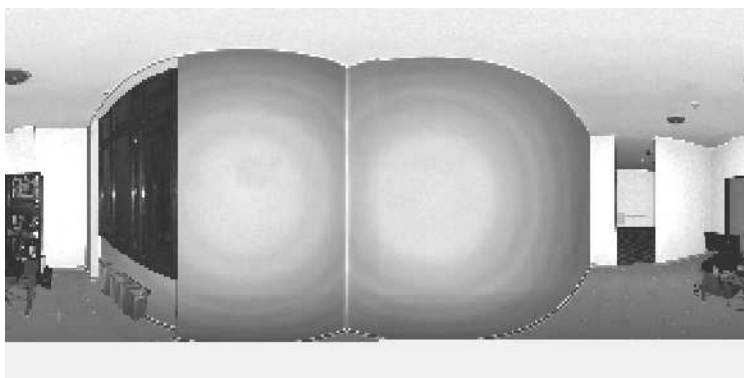
Scan '232'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned at 2023-09-22 10:14:00 (UTC)
Scanner: Z+F IMAGER 5016
Registration: cloud to cloud
Registration matrix:
-0.946934  0.321429  0.000263  -3.4277 m
-0.321428 -0.946934  0.000462  12.0198 m
0.000398  0.000354  1.000000  1.7227 m
0.000000  0.000000  0.000000  1.0000
Standard deviation: 1.5 mm
Level system info: dynamic compensator available.
    
```



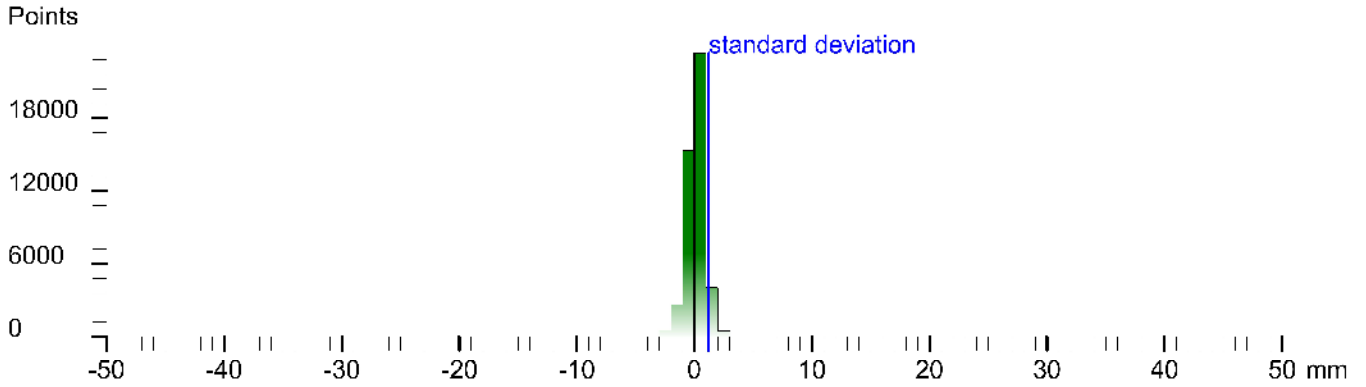
Scan position '233'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
0.466127 -0.884718 -0.000586 2.1382 m
0.884717 0.466127 0.001047 12.5062 m
-0.000654 -0.001008 0.999999 1.7260 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram



Scan '233'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata Value

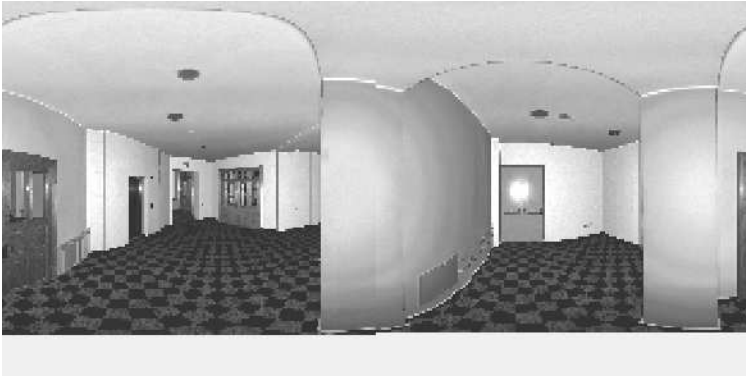
comment
operator

```

Scan name: '233'
Scan date: '2024-07-10 10:00:00'
Scan time: '10:00:00'
Scan location: '...'
Scan status: '...'
Scan resolution: 'High'
Scan quality: 'Normal'
Scan comment: '...'
Scan operator: '...'

```

Level system info: dynamic compensator available.



Scan position '234'

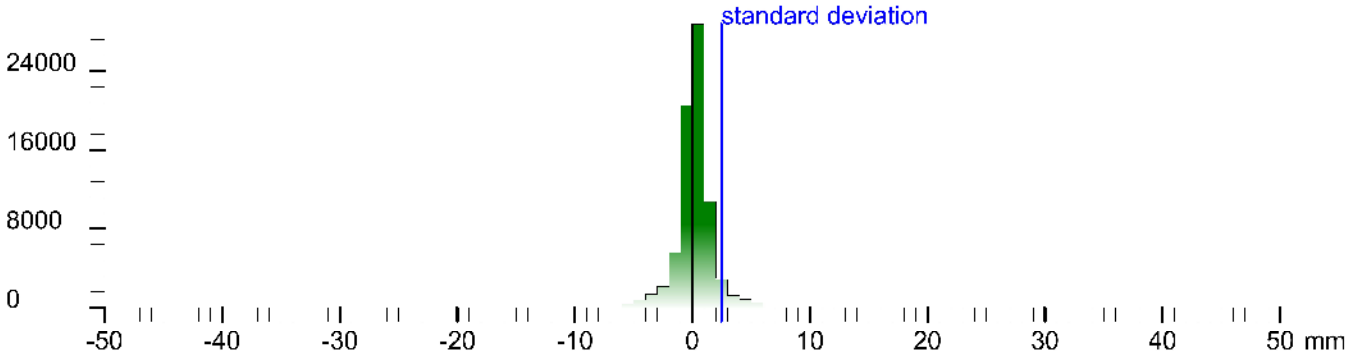
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.894122 -0.447825 -0.000495 0.9788 m
0.447826 -0.894121 -0.000439 13.4500 m
-0.000247 -0.000613 1.000000 1.7320 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.5 mm

Deviation histogram

Points



Scan '234'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 on 2023-10-27 14:02:00. Scan position: 234. Scan resolution: High. Scan quality: Normal. Scan status: Success. Scan time: 00:01:15. Scan date: 2023-10-27 14:02:00.

```
Registration matrix:
-0.894122 -0.447825 -0.000495 0.9788 m
0.447826 -0.894121 -0.000439 13.4500 m
-0.000247 -0.000613 1.000000 1.7320 m
0.000000 0.000000 0.000000 1.0000

Registration matrix:
-0.894122 -0.447825 -0.000495 0.9788 m
0.447826 -0.894121 -0.000439 13.4500 m
-0.000247 -0.000613 1.000000 1.7320 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '237'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

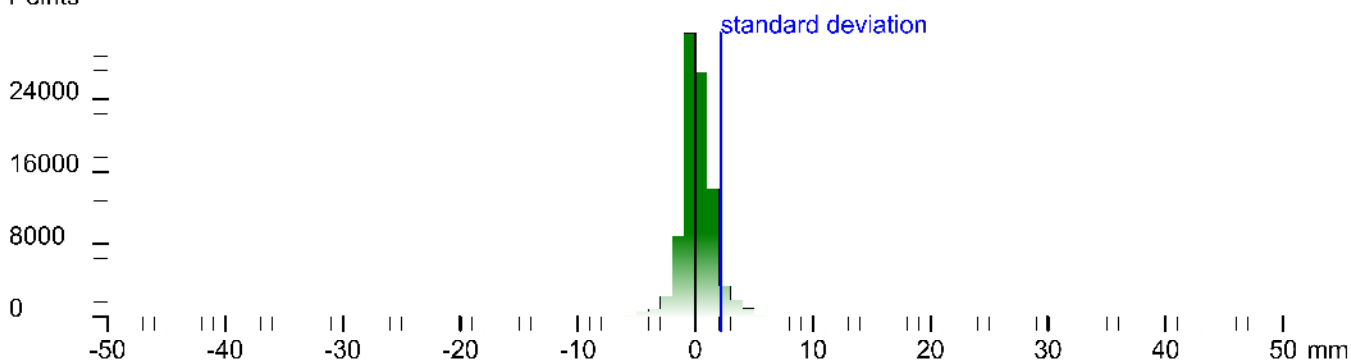
Registration matrix:

```
0.185459 0.982652 0.000569 6.1419 m
-0.982652 0.185458 0.000855 12.3054 m
0.000737 -0.000717 1.000000 1.7195 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.2 mm

Deviation histogram

Points



Scan '237'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment	operator
---------	----------

=====

position: 108713

Barcode: 513394

Registration matrix: 0.185459 0.982652 0.000569 6.1419 m

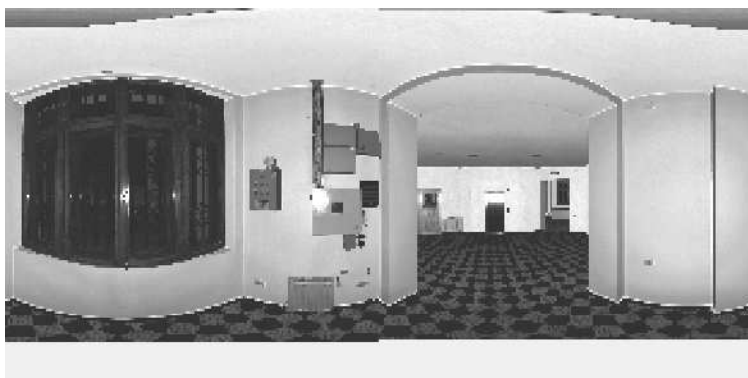
-0.982652 0.185458 0.000855 12.3054 m

0.000737 -0.000717 1.000000 1.7195 m

0.000000 0.000000 0.000000 1.0000

=====

Level system info: dynamic compensator available.



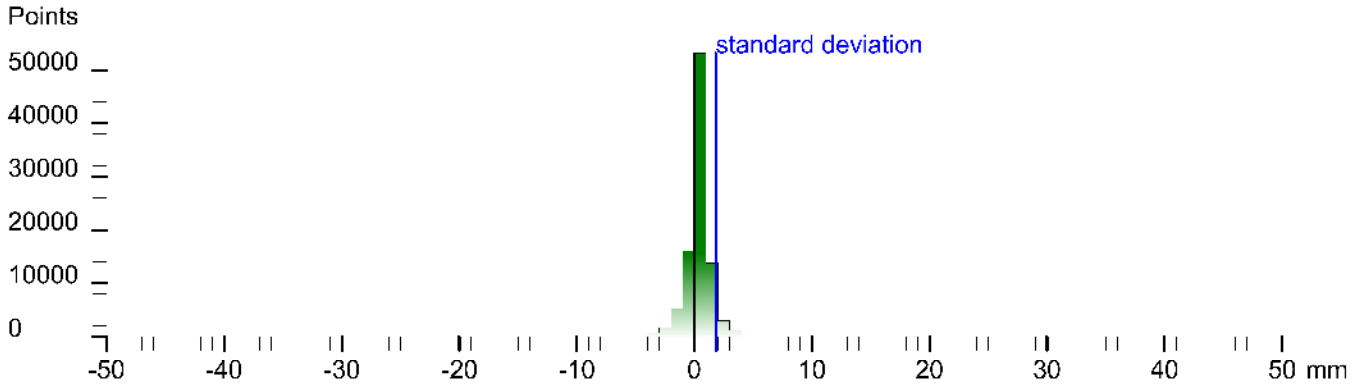
Scan position '238'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.299721  0.954027  0.000528  3.6176 m
-0.954027 -0.299722  0.000633  12.4072 m
0.000763  -0.000313  1.000000  1.7190 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram



Scan '238'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2023-08-10 12:41:00 (UTC) | 238 scan | 102h registered with cloud to cloud | Registration matrix: [102h] registered with cloud to cloud | Status registration: [102h] registered with cloud to cloud | Result registration: cloud to cloud standard deviation: 1.8 mm | Scan resolution: High | Quality: Normal |
Scanner: Z+F IMAGER 5016 | Serial number: 5016-0100 | Firmware: 9.0.3.6562-0 |
Scan resolution: High | Quality: Normal |
Registration matrix: [102h] registered with cloud to cloud |
Status registration: [102h] registered with cloud to cloud |
Result registration: cloud to cloud standard deviation: 1.8 mm |
Scan resolution: High | Quality: Normal |
Comment: |
Operator: |
```

Level system info: dynamic compensator available.



Scan position '24'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

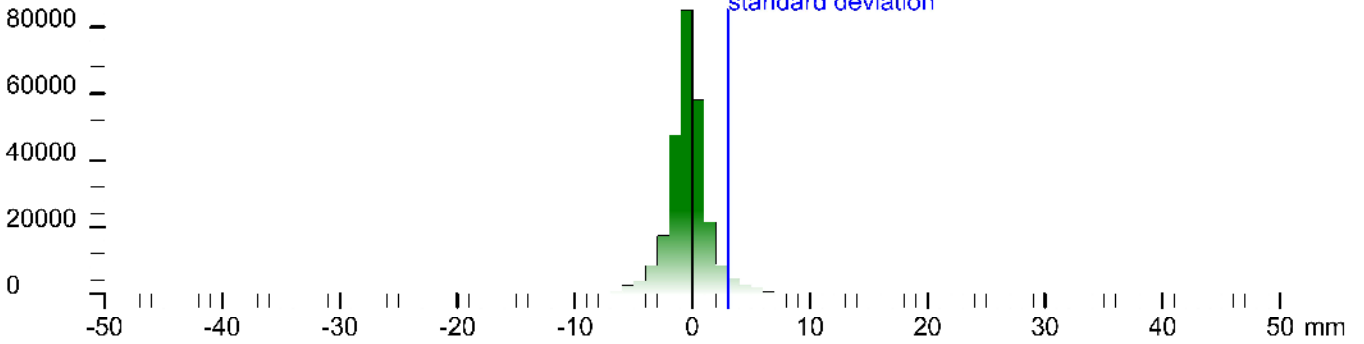
Registration matrix:

```
0.482341 0.875984 0.000994 -3.1597 m
-0.875984 0.482340 0.001471 26.4834 m
0.000809 -0.001581 0.999998 -0.0104 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:3.0 mm

Deviation histogram

Points



Scan '24'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scan time: 4/11/2023 10:24:10 AM | Scan length: 27.51 m | Height: 4.1 m | Field of view: 1.0 m x 1.0 m | Distance to target: 10.0 m | Scan rate: 10.0 points/s | Scan resolution: 0.1 mm | Scan quality: High | Scan mode: Normal

Point cloud: 140714 points (registration: 10.0%)
 Base station: 121296 B at 2.1114 m
 New station: 2.2574 m | 42.3527 m | 7.7774 m | distance: 6.4211 m | 9.2114 m | 0.0101 m
 New station: 2.2574 m | 42.3527 m | 7.7774 m | distance: 6.4211 m | 9.2114 m | 0.0101 m
 Registration matrix:
 0.482341 0.875984 0.000994 -3.1597 m
 -0.875984 0.482340 0.001471 26.4834 m
 0.000809 -0.001581 0.999998 -0.0104 m
 0.000000 0.000000 0.000000 1.0000 m
 Level system info: (Available)
 121296 B at 2.1114 m
 2.2574 m | 42.3527 m | 7.7774 m | distance: 6.4211 m | 9.2114 m | 0.0101 m
 0.482341 0.875984 0.000994 -3.1597 m
 -0.875984 0.482340 0.001471 26.4834 m
 0.000809 -0.001581 0.999998 -0.0104 m
 0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '241'

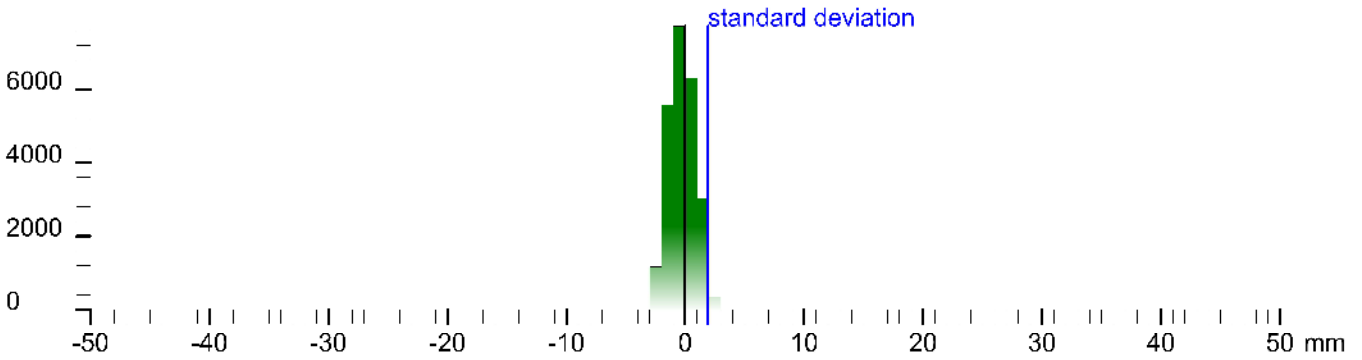
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

0.999800	0.020042	-0.000048	4.7607 m
-0.020042	0.999800	-0.000271	10.3786 m
0.000043	0.000270	1.000000	1.7263 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '241'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2023-09-08 10:24:00 (UTC) at 2023-09-08 10:24:00 (UTC) in the folder 'C:\Users\user\AppData\Local\Temp\Z+F\2023-09-08_10:24:00\241' with the scanner 'Z+F IMAGER 5016' and the camera 'Z+F IMAGER 5016'.

Registration: 100% (no transformation required)
Registration matrix: [0.999800, 0.020042, -0.000048, 4.7607, -0.020042, 0.999800, -0.000271, 10.3786, 0.000043, 0.000270, 1.000000, 1.7263, 0.000000, 0.000000, 0.000000, 1.000000]
Registration quality: 1.9 mm
Registration method: Cloud-to-Cloud
Registration points: 100000
Registration time: 0.000000 s
Registration date: 2023-09-08 10:24:00

Level system info: dynamic compensator available.



Scan position '242'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

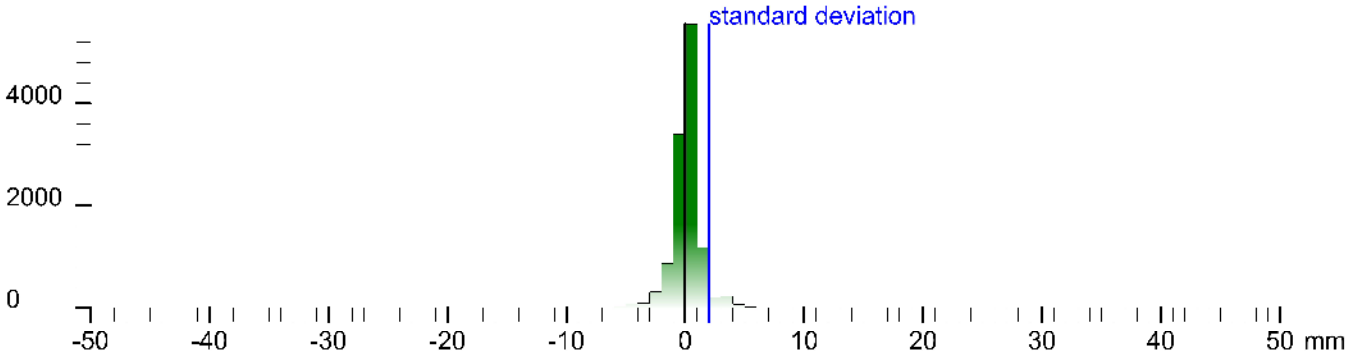
```

0.986371  0.164389  -0.007022  4.8282 m
-0.164411 0.986389  -0.002560  10.4218 m
0.006506  0.003678  0.999972  0.3490 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram

Points



Scan '242'

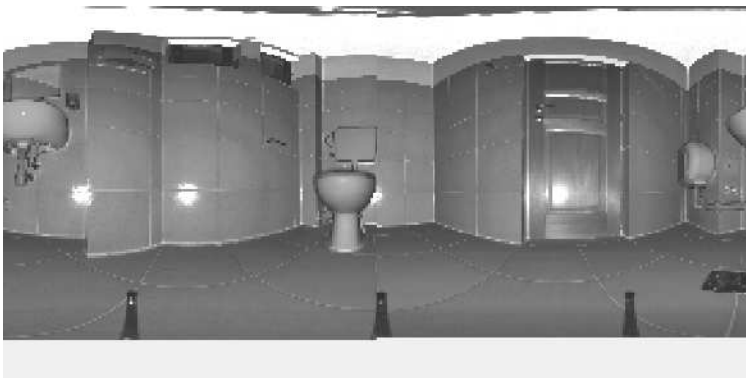
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Z+F Imager 5016: 102h registered with cloud to cloud
Scanner
  registration: 102h registered with cloud to cloud
  Base rotation: 0.1419° Base translation: 0 m
  new translation: 4.8282 m new rotation: -0.007022 m new rotation: 6.0982 m 0.0000 m
  new rotation: 0.003678 m new rotation: 0.999972 m new rotation: 0.3490 m
  registration: 102h
  FH data profile: 102h
  0.986371 0.164389 -0.007022 4.8282 m
  -0.164411 0.986389 -0.002560 10.4218 m
  0.006506 0.003678 0.999972 0.3490 m
  0.000000 0.000000 0.000000 1.0000
    
```

Level system info: no information about the level system stored in the zfs header



Scan position '244'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
-0.400853  0.916019  0.015071  3.1249 m
-0.916101 -0.400938  0.002968  6.5936 m
 0.008762 -0.012615  0.999882  1.7503 m
 0.000000  0.000000  0.000000  1.0000
```

Scan '244'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

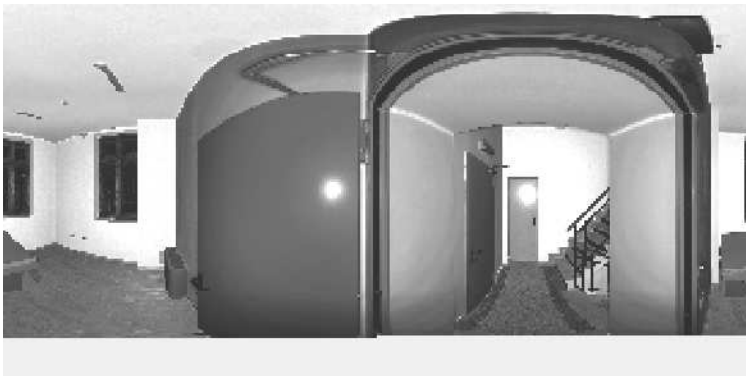
comment

operator

Scanned area: 4.111024m x 3.021116m (width x height) Scan area: 12.494571m x 10.000000m (width x height) Scan area: 12.494571m x 10.000000m (width x height) Scan area: 12.494571m x 10.000000m (width x height)

```
File name: 2025-02-27_10:00:00_244.zif
File size: 1.1001 MB (1100100 bytes)
File format: ZIF
File creation date: 2025-02-27 10:00:00
File modification date: 2025-02-27 10:00:00
File permissions: -rwxr-xr-x
File owner: root
File group: root
File mode: 755
```

Level system info: no information about the level system stored in the zifs header



Scan position '245'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

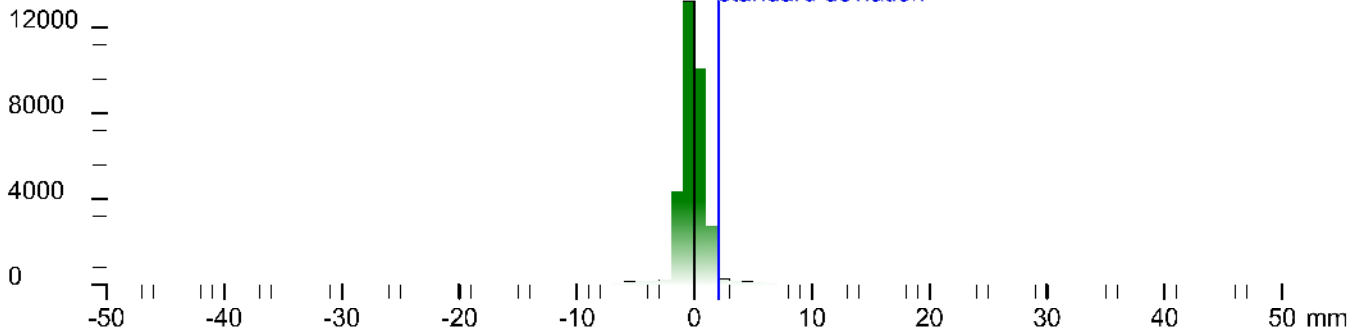
Registration matrix:

```
-0.145380 0.989266 0.014790 3.8537 m
-0.989365 -0.145435 0.002677 4.7349 m
0.004801 -0.014242 0.999887 1.7400 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.0 mm

Deviation histogram

Points



Scan '245'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 on 2024-07-15 10:15:15. Scan position: 245. Scan resolution: High. Scan quality: Normal. Scan status: Success. Scan result: Cloud to cloud registration. Standard deviation: 2.0 mm.

```
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)  
Registration: 100% (cloud to cloud registration)
```

Level system info: dynamic compensator available.



Scan position '246'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

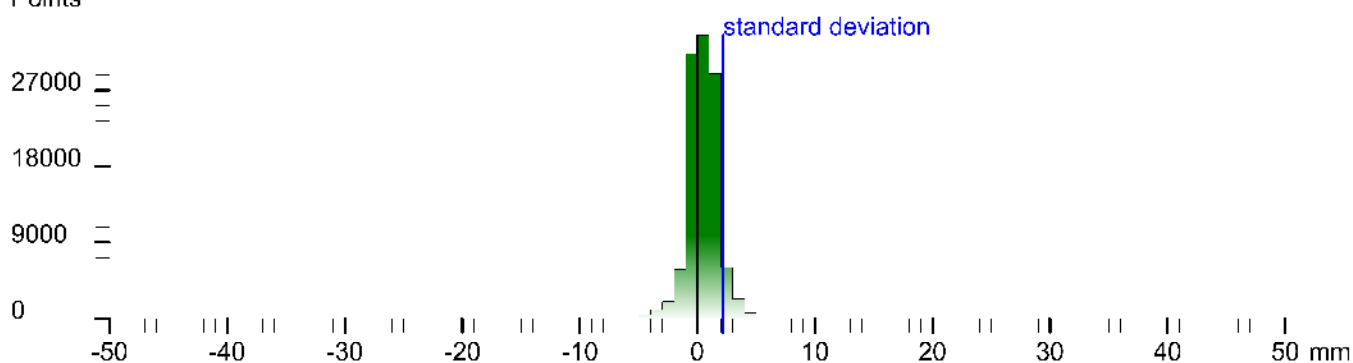
Registration matrix:

0.216114	-0.976369	-0.000708	4.5759 m
0.976368	0.216114	0.001045	17.8142 m
-0.000869	-0.000918	0.999999	1.7310 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.2 mm

Deviation histogram

Points



Scan '246'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

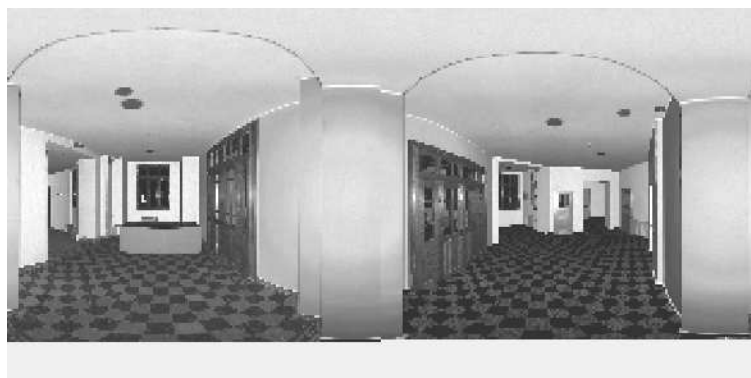
Metadata Value

comment

operator

```
Scanned: 2023-07-20 11:11:11.258 (UTC)
ScanName: 10877
Barcode: 014246
Bar: 0.32 m
Resolution: 500000
Quality: High
ScanTime: 2023-07-20 11:11:11.258 (UTC)
ScanDate: 2023-07-20 11:11:11.258 (UTC)
ScanTime: 2023-07-20 11:11:11.258 (UTC)
ScanDate: 2023-07-20 11:11:11.258 (UTC)
```

Level system info: dynamic compensator available.



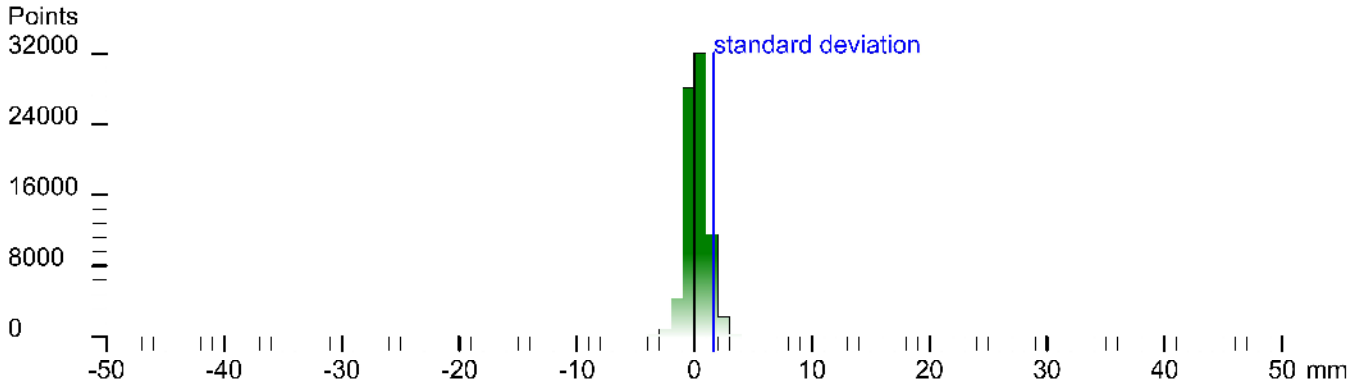
Scan position '247'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.150039 -0.988681 -0.000790 2.1463 m
0.988681 -0.150039 0.000850 20.3907 m
-0.000960 -0.000654 0.999999 1.7213 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram



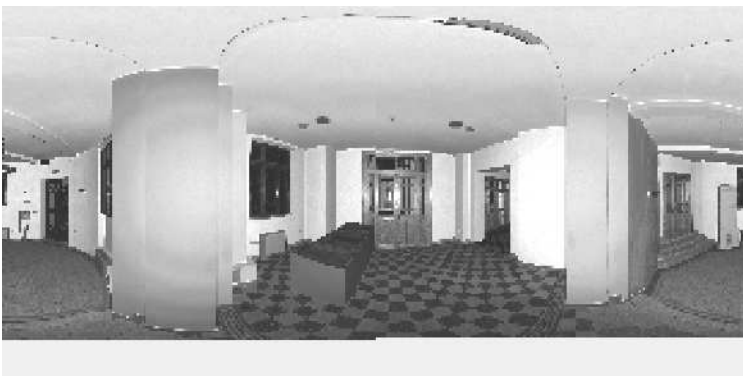
Scan '247'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned with Z+F Imager 5016 on 2023-09-15 10:27:00.000. Scan position: 247. Scan resolution: High. Quality: Normal. Scan status: Success. Scan result: Success. Scan time: 2023-09-15 10:27:00.000.
Scan position: 247. Scan resolution: High. Quality: Normal. Scan status: Success. Scan result: Success. Scan time: 2023-09-15 10:27:00.000.
Registration matrix:
-0.150039 -0.988681 -0.000790 2.1463 m
0.988681 -0.150039 0.000850 20.3907 m
-0.000960 -0.000654 0.999999 1.7213 m
0.000000 0.000000 0.000000 1.0000
Registration matrix:
-0.150039 -0.988681 -0.000790 2.1463 m
0.988681 -0.150039 0.000850 20.3907 m
-0.000960 -0.000654 0.999999 1.7213 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '248'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

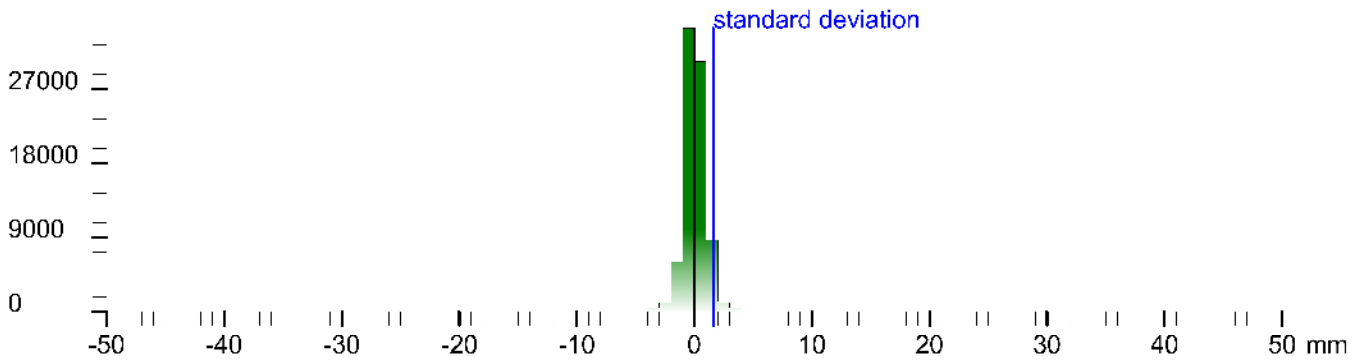
Registration matrix:

0.945935	0.324359	0.000126	3.3813 m
-0.324360	0.945934	0.001421	22.1761 m
0.000343	-0.001387	0.999999	1.7238 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '248'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000 m x 3.000 m (24.000 sq. m) | 248 scan position: 102h registered with cloud to cloud | Registration matrix: 0.945935 0.324359 0.000126 3.3813 m | -0.324360 0.945934 0.001421 22.1761 m | 0.000343 -0.001387 0.999999 1.7238 m | 0.000000 0.000000 0.000000 1.0000

Registration matrix: 0.945935 0.324359 0.000126 3.3813 m
-0.324360 0.945934 0.001421 22.1761 m
0.000343 -0.001387 0.999999 1.7238 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



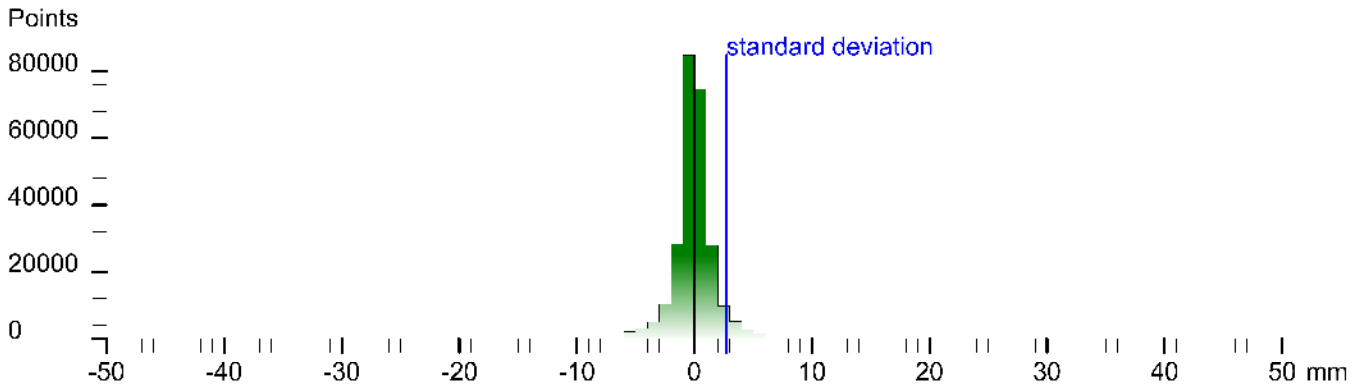
Scan position '25'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.040821  0.999167  0.000959  -6.6299 m  
-0.999167 -0.040822  0.000893  26,0596 m  
0.000931 -0.000922  0.999999  -0.1545 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram



Scan '25'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned on: 2023-09-27 10:00:00  
Scan name: '1400' (dynamic compensation recording)  
Elevation: 218706 [m] (1,39147 m)  
Resolution: 1400 [mm] (1.40000 m) (2/20) (multiples: 11925 / 170325) (0.0100 m)  
Resolution: 5000.0 [mm] (5.00000 m) (1844) (multiples: 62500 / 113000)  
Registration:  
RST: R(45.4785522) rot(50.00000) elevation height: 6.6299 m (1.1) (step: 2) (max: 4) (min: 0.8) (step: 5) (standard deviation: 0.0100 m)  
RCH: 000480 (30 m) (60.0641817) (m) (0.1935)  
Elevation: (operator)  
L: 0.040821 0.999167  
R: -0.999167 -0.040822  
T: 0.000931 -0.000922  
S: 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '250'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

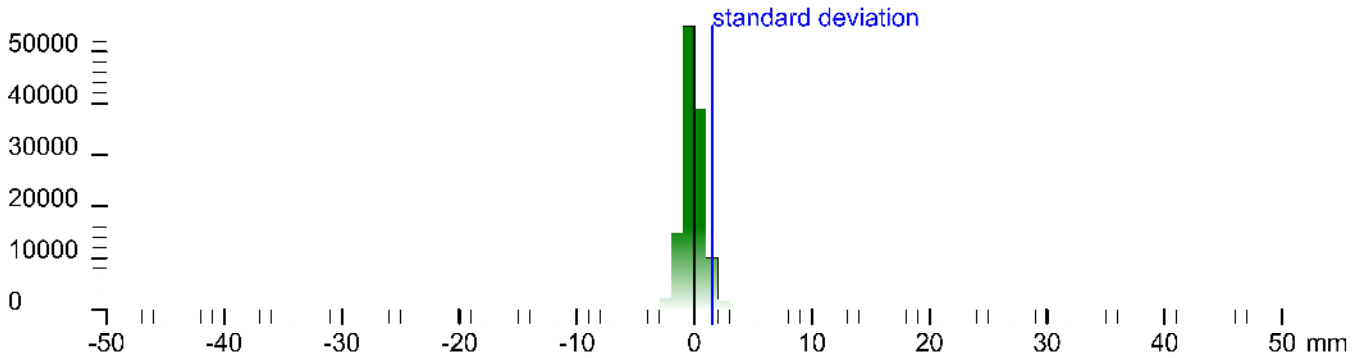
Registration matrix:

```
-0.857244 -0.514912 -0.000491 -1.4763 m
0.514913 -0.857243 0.000196 18.9181 m
-0.000523 -0.000084 1.000000 1.0280 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram

Points



Scan '250'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment	operator
---------	----------

```
Scanned with Z+F Imager 5016 at 2023-09-15 10:00:00. Scan position: 250. Scan resolution: High. Scan quality: Normal. Scan status: 102h. Scan registration: cloud to cloud. Scan standard deviation: 1.5 mm. Scan position: 250. Scan resolution: High. Scan quality: Normal. Scan status: 102h. Scan registration: cloud to cloud. Scan standard deviation: 1.5 mm.
```

```
Registration matrix:
-0.857244 -0.514912 -0.000491 -1.4763 m
0.514913 -0.857243 0.000196 18.9181 m
-0.000523 -0.000084 1.000000 1.0280 m
0.000000 0.000000 0.000000 1.0000

Metadata path:
C:\Users\operator\Desktop
C:\Users\operator\Desktop
C:\Users\operator\Desktop
C:\Users\operator\Desktop
```

Level system info: dynamic compensator available.



Scan position '251'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

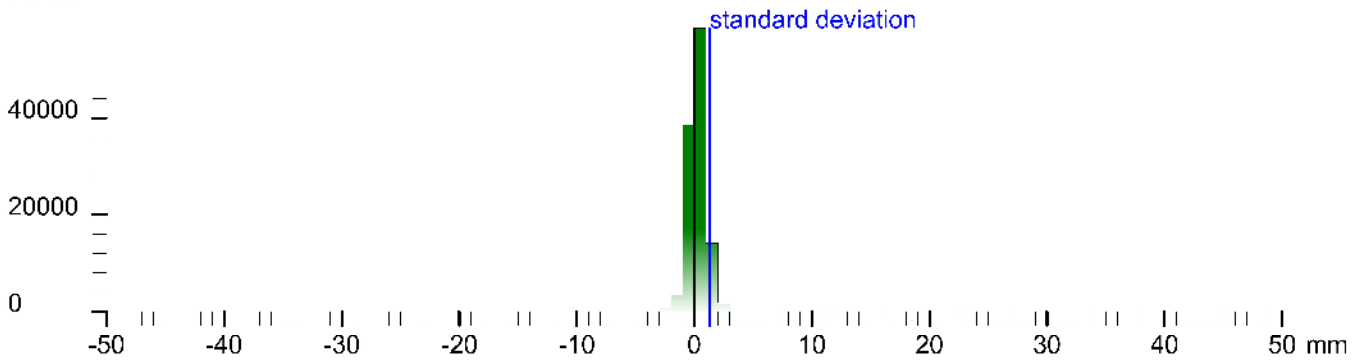
Registration matrix:

```
-0.821624 -0.570032 -0.000707 -2.6385 m
0.570032 -0.821623 0.000304 21.0917 m
-0.000755 -0.000152 1.000000 1.0256 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '251'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2019-08-01 10:44:00 (UTC+02:00) by 3D Scanner [102h] registered with cloud to cloud. Registration matrix: [-0.821624 -0.570032 -0.000707 -2.6385 m; 0.570032 -0.821623 0.000304 21.0917 m; -0.000755 -0.000152 1.000000 1.0256 m; 0.000000 0.000000 0.000000 1.0000]. Standard deviation: 1.3 mm.

```
Registration: 108711 (no parameter transition recorded)
Base matrix: [-0.821624 -0.570032 -0.000707 -2.6385 m;
0.570032 -0.821623 0.000304 21.0917 m;
-0.000755 -0.000152 1.000000 1.0256 m;
0.000000 0.000000 0.000000 1.0000]
Operator: 3D Scanner
FH: 108711 (no parameter transition recorded)
[-0.821624 -0.570032 -0.000707 -2.6385 m;
0.570032 -0.821623 0.000304 21.0917 m;
-0.000755 -0.000152 1.000000 1.0256 m;
0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



Scan position '252'

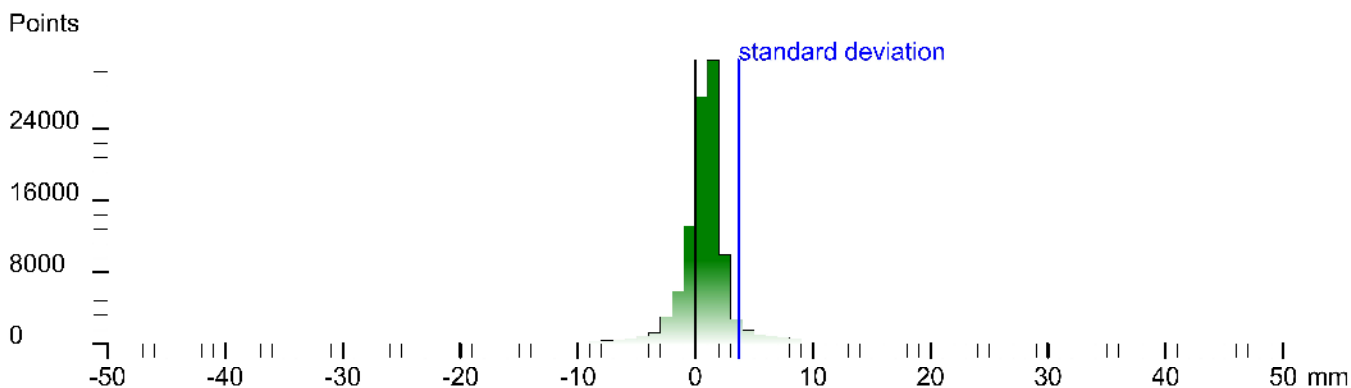
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.924973  0.380035  0.000108  6.3683 m
-0.380035  0.924971  0.001608  15.9045 m
0.000513  -0.001529  0.999999  1.7182 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 3.7 mm

Deviation histogram



Scan '252'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned at: 2024-10-24 10:14:00 (UTC) | 2024-10-24 10:14:00 (UTC) | 2024-10-24 10:14:00 (UTC) | 2024-10-24 10:14:00 (UTC) | 2024-10-24 10:14:00 (UTC)
Scanner:
Resolution: 1080 x 1080 (mm) | 4096 x 4096 (mm)
Base station: 0.18896 East 0.30496 m
New station: 0.27582 m | 0.27712 m | 0.27582 m | 0.00000 m
New station: 0.00000 m | 0.27582 m | 0.27712 m | 0.00000 m
Registration:
Initial position: 0.00000
CE8: 0.478 0.000 -47.028
CA 12 CA28: 0.000 -4.288
CA 10 CA20: 0.000 -4.287
CA 10 CA20: 0.000 0.000
    
```

Level system info: dynamic compensator available.



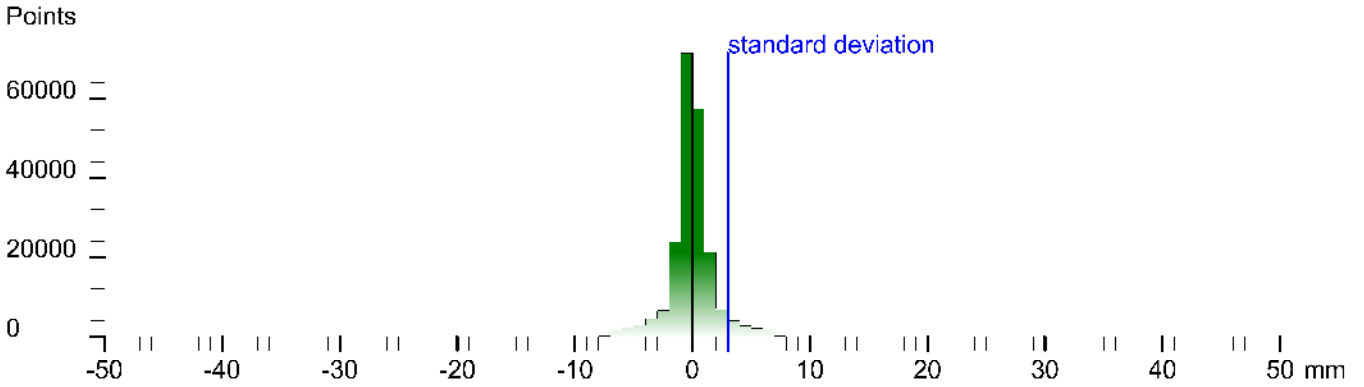
Scan position '253'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

0.539374	0.842067	0.000571	9.3909	m
-0.842067	0.539373	0.000965	13.6023	m
0.000506	-0.001002	0.999999	1.7294	m
0.000000	0.000000	0.000000	1.0000	

Result registration cloud to cloud standard deviation: 3.0 mm

Deviation histogram



Scan '253'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2024-12-12 10:01:00 (UTC) | 2024-12-12 10:01:00 (UTC) | Project: 2024-12-12-10-01-00 | File: 2024-12-12-10-01-00 | Path: / | Size: 1.2 GB | Resolution: 0.1 mm | Quality: Normal | Operator: | Comment: | Registration: Cloud to Cloud | Standard Deviation: 3.0 mm | Points: 6000000 | Area: 1.5 m² | Volume: 1.5 m³ | Min: -50.0 mm | Max: 50.0 mm | Mean: 0.0 mm | StdDev: 3.0 mm | Histogram: | Metadata: | Comment: | Operator: | Registration: Cloud to Cloud | Standard Deviation: 3.0 mm | Points: 6000000 | Area: 1.5 m² | Volume: 1.5 m³ | Min: -50.0 mm | Max: 50.0 mm | Mean: 0.0 mm | StdDev: 3.0 mm | Histogram: | Metadata: | Comment: | Operator: | Registration: Cloud to Cloud | Standard Deviation: 3.0 mm | Points: 6000000 | Area: 1.5 m² | Volume: 1.5 m³ | Min: -50.0 mm | Max: 50.0 mm | Mean: 0.0 mm | StdDev: 3.0 mm | Histogram: | Metadata: | Comment: | Operator: | Registration: Cloud to Cloud | Standard Deviation: 3.0 mm | Points: 6000000 | Area: 1.5 m² | Volume: 1.5 m³ | Min: -50.0 mm | Max: 50.0 mm | Mean: 0.0 mm | StdDev: 3.0 mm | Histogram:
```

Level system info: dynamic compensator available.



Scan position '255'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

0.984446	-0.175691	0.000909	11.8272 m
0.175689	0.984445	0.001590	22.0497 m
-0.001172	-0.001405	0.999999	1.7358 m
0.000000	0.000000	0.000000	1.0000

Scan '255'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

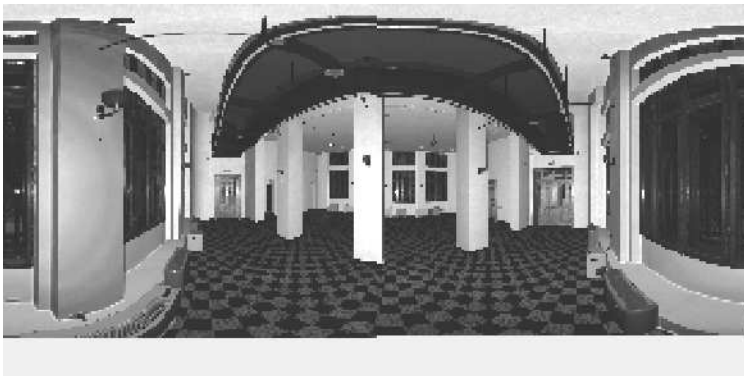
comment

operator

Scan position: [10123h] preregistered with cloud to cloud, manually'

Registration matrix:
0.984446 -0.175691 0.000909 11.8272 m
0.175689 0.984445 0.001590 22.0497 m
-0.001172 -0.001405 0.999999 1.7358 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '256'

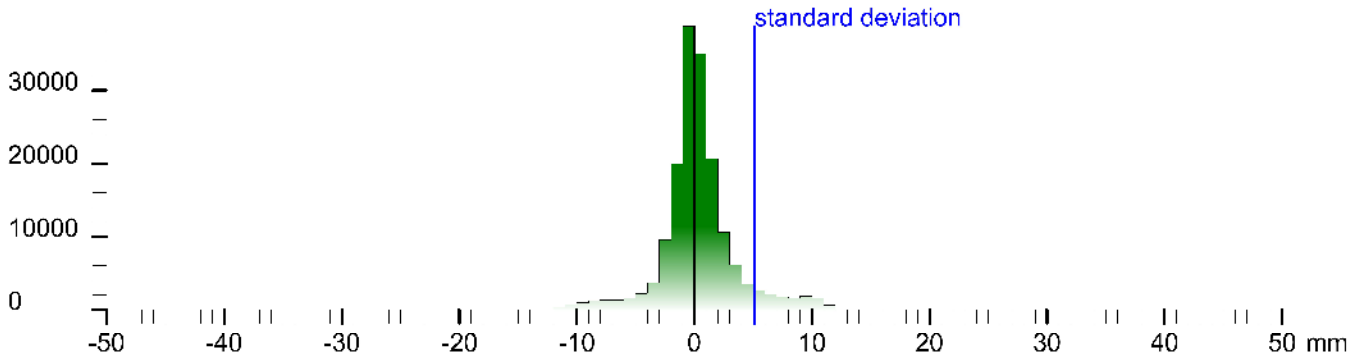
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.966242 0.257632 0.002094 17.5429 m  
-0.257637 0.966241 0.002029 22.1895 m  
-0.001499 -0.002499 0.999997 1.7304 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 5.1 mm

Deviation histogram

Points



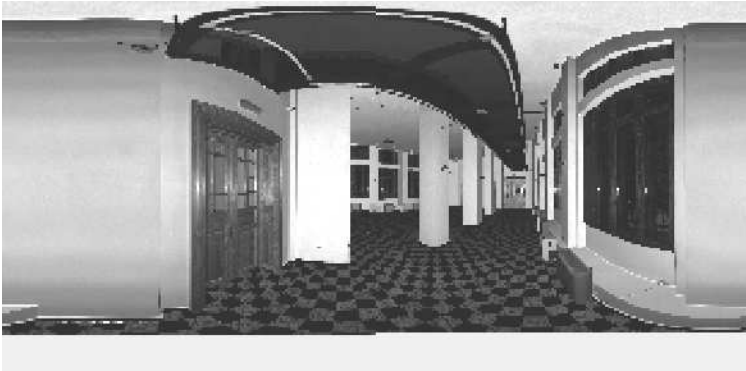
Scan '256'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned on: 2017-08-10 12:41:00  
Scanned by: [redacted]  
Scanned with: Z+F IMAGER 5016  
Scan resolution: High  
Scan quality: Normal  
Scan position: 256  
Scan status: [redacted]  
Scan type: [redacted]  
Scan area: [redacted]  
Scan volume: [redacted]  
Scan time: [redacted]  
Scan date: [redacted]  
Scan time: [redacted]  
Scan date: [redacted]  
Scan time: [redacted]  
Scan date: [redacted]
```

Level system info: dynamic compensator available.



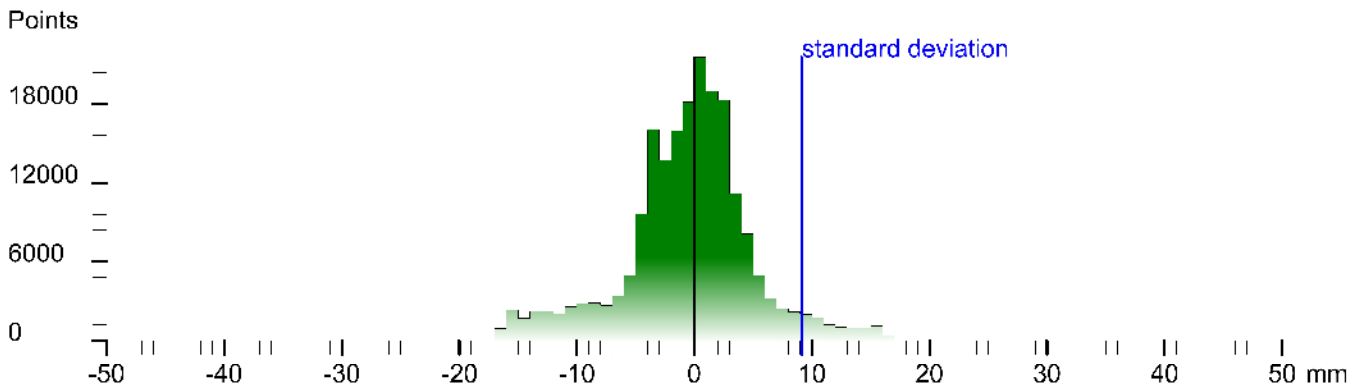
Scan position '257'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.907099 -0.420918 0.001127 13.8376 m  
0.420920 -0.907100 0.000209 20.1728 m  
0.000933 0.000663 1.000000 1.7317 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 9.1 mm

Deviation histogram



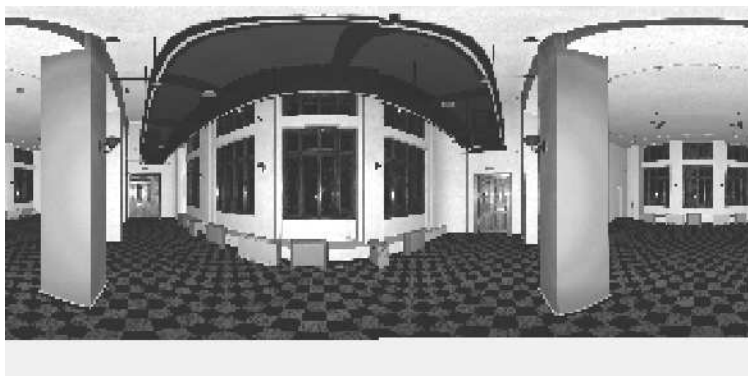
Scan '257'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on 2017-08-01 10:44:00 (UTC) by Z+F Imager 5016 (Serial: 5016-0100) Firmware: 9.0.3.6562-0  
Sensor:  
Resolution: 1080 x 1080 (mm) (Resolution)  
Error matrix: [0.18794 0.0 -4.52334 m  
0.0 0.18794 0.0 -4.52334 m  
0.000933 0.000663 1.000000 1.7317 m  
0.000000 0.000000 0.000000 1.000000]  
Registration:  
Method: Cloud to Cloud  
Standard Deviation: 9.1 mm  
Registration Matrix:  
[0.907099 0.420918 -0.001127 -13.8376 m  
-0.420920 0.907100 -0.000209 -20.1728 m  
-0.000933 -0.000663 -1.000000 -1.7317 m  
0.000000 0.000000 0.000000 1.000000]
```

Level system info: dynamic compensator available.



Scan position '258'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

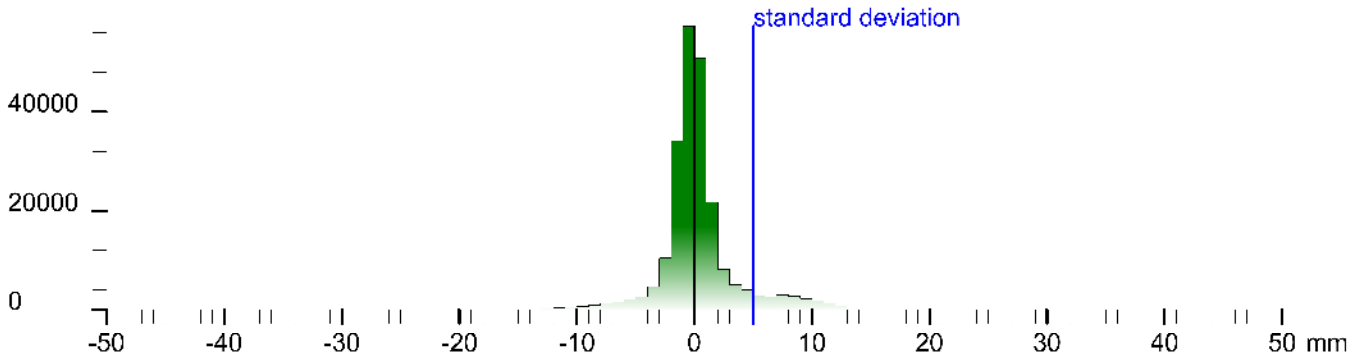
Registration matrix:

-0.694575	-0.719422	0.000812	13.2178 m
0.719422	-0.694575	0.000077	17.4719 m
0.000507	0.000636	1.000001	1.7332 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:5.0 mm

Deviation histogram

Points



Scan '258'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

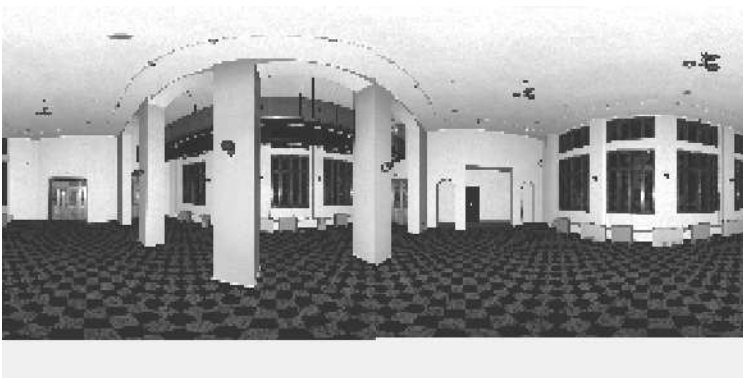
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: [102h] registered with cloud to cloud

Registration matrix:
-0.694575 -0.719422 0.000812 13.2178 m
0.719422 -0.694575 0.000077 17.4719 m
0.000507 0.000636 1.000001 1.7332 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



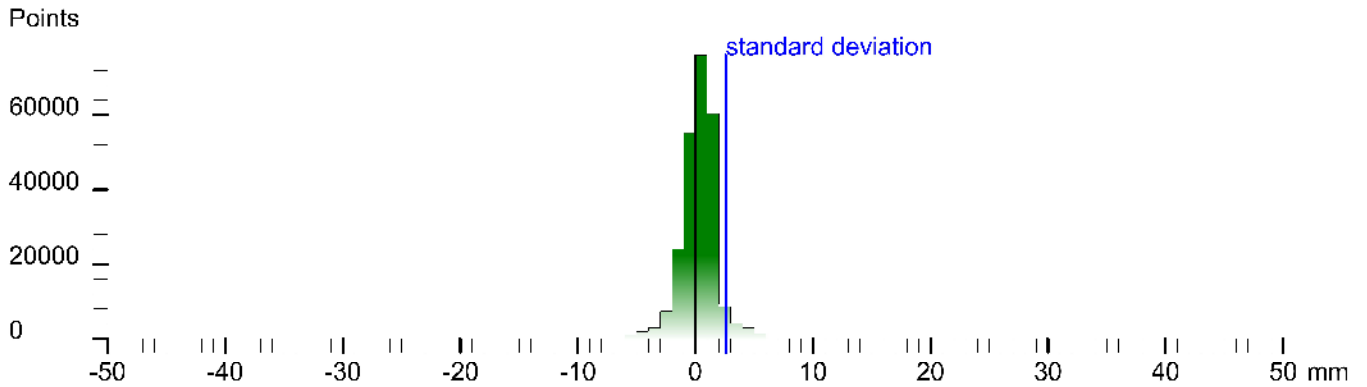
Scan position '259'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.225916  0.974146  0.002248  17.4853 m  
-0.974148 0.225914  0.000682  14.0472 m  
0.000157 -0.002341  0.999998  1.7596 m  
0.000000 0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.6 mm

Deviation histogram



Scan '259'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned on 2017-10-04 14:04:00 with Z+F Imager 5016 in 60° FOV. Scan range: 11.00m - 12.00m. Scan resolution: 0.4mm. Scan quality: High. Scan status: OK.

Registration: [102h] registered with cloud to cloud
Registration matrix:
0.225916 0.974146 0.002248 17.4853 m
-0.974148 0.225914 0.000682 14.0472 m
0.000157 -0.002341 0.999998 1.7596 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '26'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

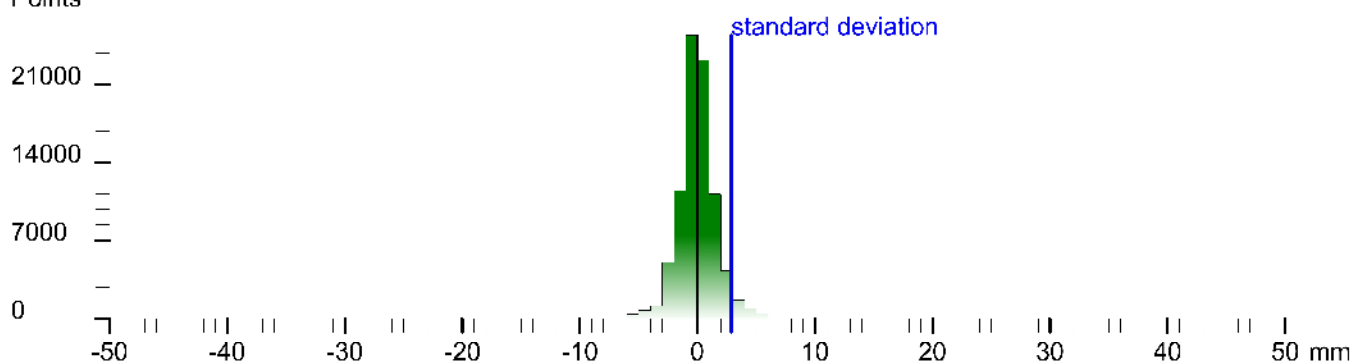
Registration matrix:

```
0.152405  0.988318  0.000951  -3.4607 m
-0.988318  0.152404  0.000963  22.4724 m
0.000807  -0.001087  0.999999  0.9299 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.9 mm

Deviation histogram

Points



Scan '26'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

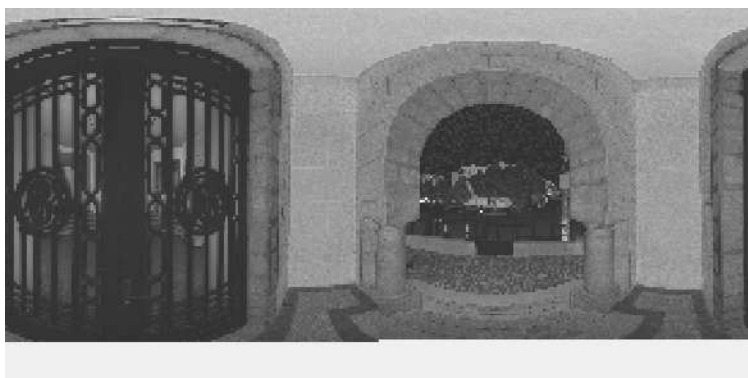
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned at: 2017-10-27 14:00:00.000. Operator: [redacted] File: [redacted]. Scan resolution: High. Quality: Normal. Scan position: 26. Scan group: [redacted]. Scan type: Cloud to cloud. Scan mode: Standard. Scan status: Success. Scan duration: 0:00:02.000. Scan date: 2017-10-27. Scan time: 14:00:00.000. Scan location: [redacted]. Scan operator: [redacted]. Scan comment: [redacted]. Scan operator: [redacted].

Registration: 100% (no transition recorded)
Basic match: 0.12568 (of 0.30-30 m)
Max. distance: 1.2755 m (-2.808 m / 1.6377 m) (min. max. 0.21984 m / 0.6101 m)
Max. scale: 0.00000 (0.00000) (0.00000) (0.00000) (0.00000) (0.00000) (0.00000)
Operator: [redacted]
Histogram profile: (meters)
0.000000 0.000000
0.000000 0.000000
0.000000 0.000000

Level system info: dynamic compensator available.



Scan position '260'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

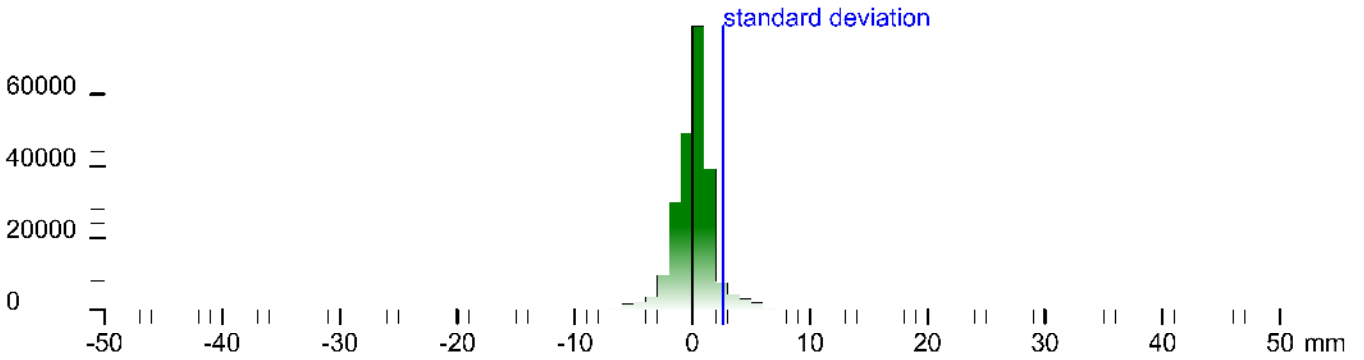
Registration matrix:

```
0,340729  0,940162  0,001392  18,8292 m  
-0,940163 0,340727  0,000819  16,6235 m  
0,000296 -0,001585  1,000000  1,7600 m  
0,000000  0,000000  0,000000  1,0000
```

Result registration cloud to cloud standard deviation: 2.6 mm

Deviation histogram

Points



Scan '260'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

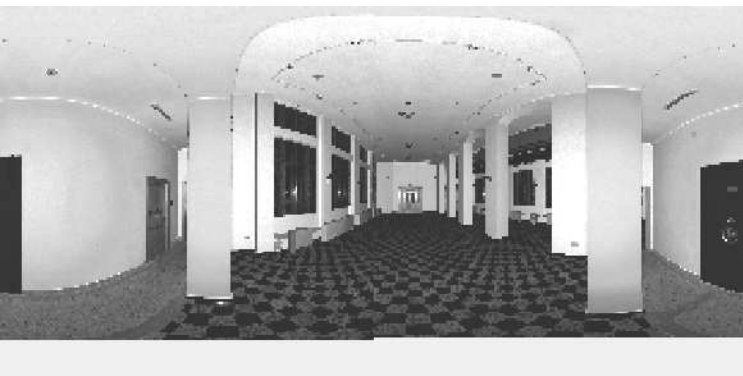
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position '260' registered with cloud to cloud standard deviation: 2.6 mm. The scan is registered with the following registration matrix:
0,340729 0,940162 0,001392 18,8292 m
-0,940163 0,340727 0,000819 16,6235 m
0,000296 -0,001585 1,000000 1,7600 m
0,000000 0,000000 0,000000 1,0000

```
point name: 260  
Eure: matrix: 0,340729 0,940162 0,001392 18,8292 m  
reg: rotation: 0,000296 -0,001585 1,000000 0,000000  
operator: zimmermann  
Eure: pos: 102  
Eure: pos: 102  
Eure: pos: 102
```

Level system info: dynamic compensator available.



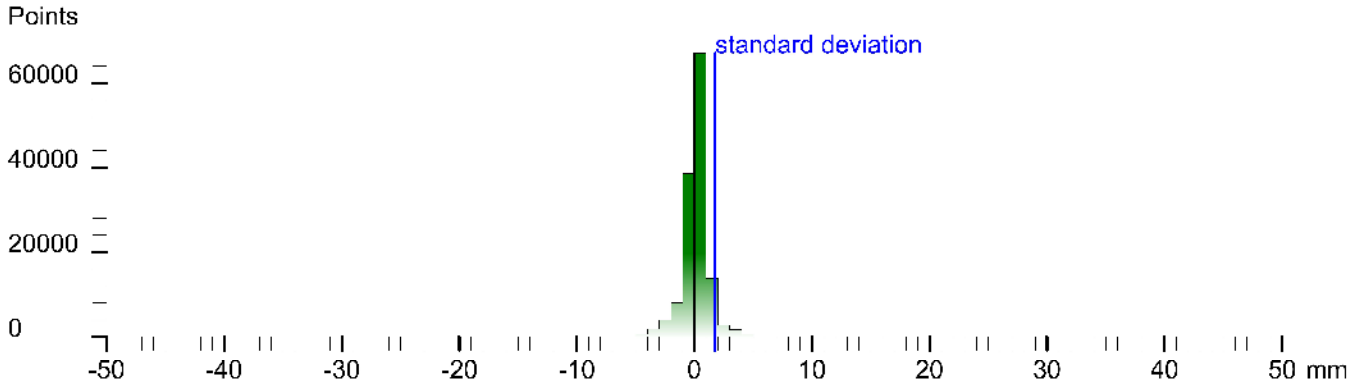
Scan position '261'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.301801 0.953370 0.002252 20.0960 m  
-0.953372 0.301800 0.000255 17.4663 m  
-0.000436 -0.002221 0.999999 1.7540 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram



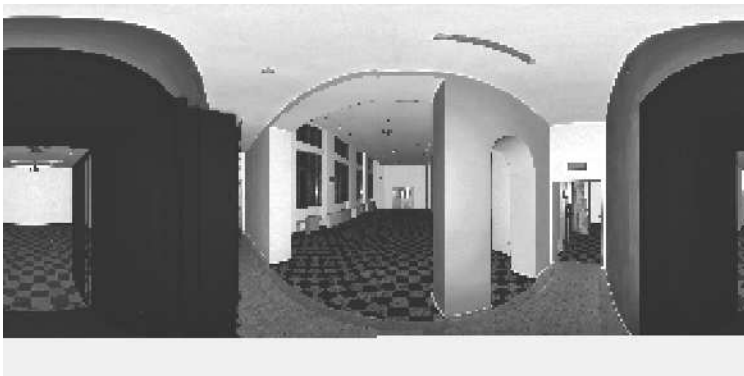
Scan '261'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
----------	-------

comment	operator
operator	operator
operator	operator
operator	operator

Level system info: dynamic compensator available.



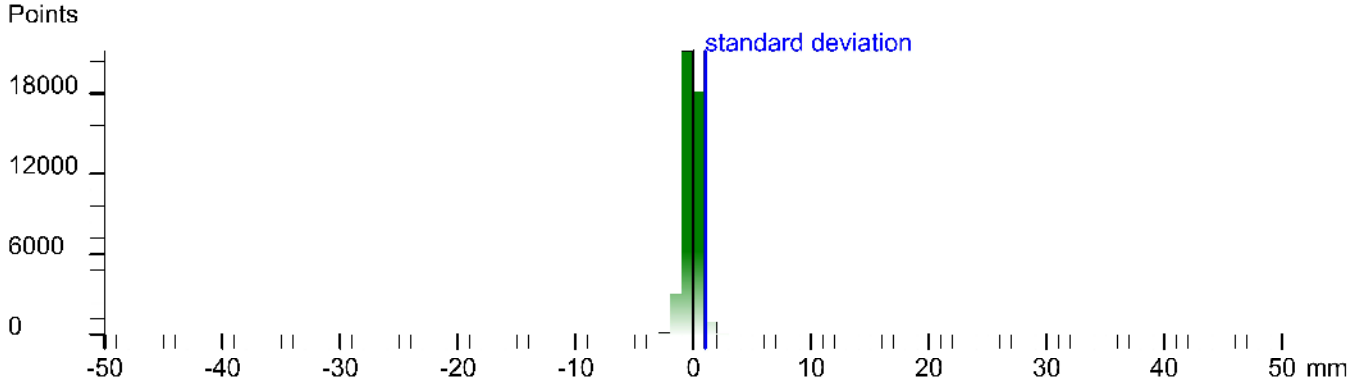
Scan position '262'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

0.984571 0.174986 0.001849 21.6197 m
 -0.174989 0.984572 0.000831 17.4949 m
 -0.001673 -0.001141 0.999999 1.7428 m
 0.000000 0.000000 0.000000 1.0000

Result registration cloud to cloud standard deviation: 1.0 mm

Deviation histogram



Scan '262'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned on: 2014-02-04 10:41:00.000 UTC [UTC]
Scan no.: 1081
Registration matrix:
  Translation: 21.6197 m
  Rotation: 1.749862e-01 1.749862e-02 0.001849
  Registration matrix:
  Translation: 17.4949 m
  Rotation: 9.845712e-01 9.845712e-02 0.000831
  Registration matrix:
  Translation: 1.7428 m
  Rotation: 9.999999e-01 9.999999e-02 0.001673
  Registration matrix:
  Translation: 1.0000 m
  Rotation: 1.000000e+00 1.000000e-02 0.000000
  
```

Level system info: dynamic compensator available.



Scan position '263'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

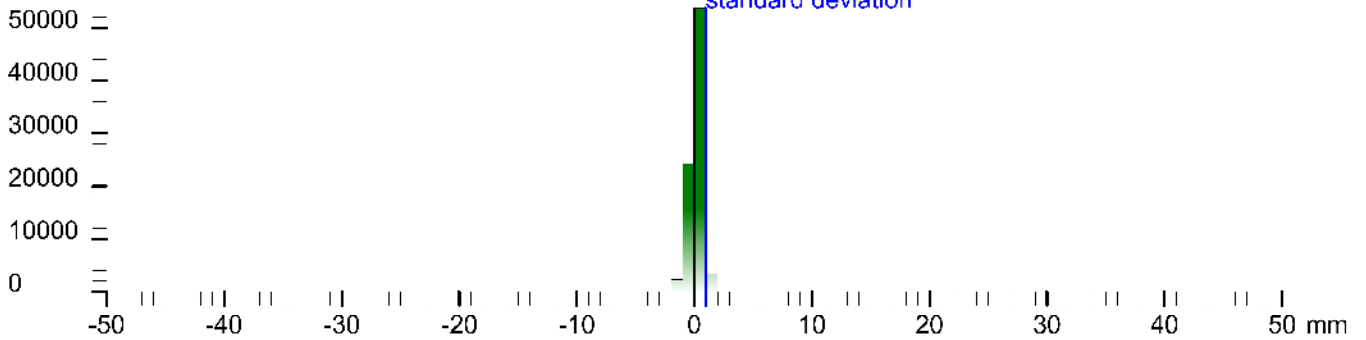
Registration matrix:

```
-0.975245 -0.221126 0.001587 21.5622 m  
0.221127 -0.975247 -0.000648 16.4629 m  
0.001689 -0.000282 1.000000 1.7441 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 0.9 mm

Deviation histogram

Points



Scan '263'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

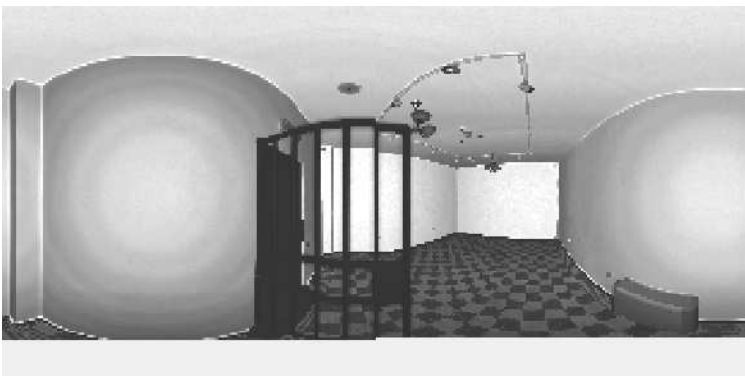
Metadata	Value
comment	
operator	

Scanned area: 4.004384 x 3.284102 x 3.641101 m
Scales: 1.000000 m

Registration: 108110 (cloud to cloud registration)
Error matrix: 0.218738 0.000000 0.000000 0.000000
0.000000 0.218738 0.000000 0.000000
0.000000 0.000000 0.000000 0.000000

Position: 0.000000 0.000000 0.000000
0.000000 0.000000 0.000000
0.000000 0.000000 0.000000
0.000000 0.000000 0.000000

Level system info: dynamic compensator available.



Scan position '264'

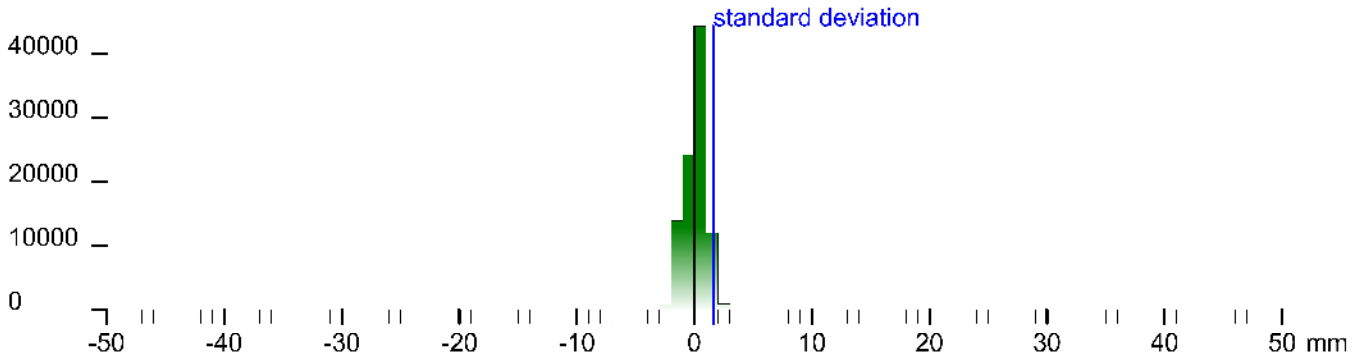
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

0.728477	-0.685071	0.001300	24.7833 m
0.685069	0.728479	0.000919	18.8872 m
-0.001575	0.000219	1.000000	1.7313 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '264'

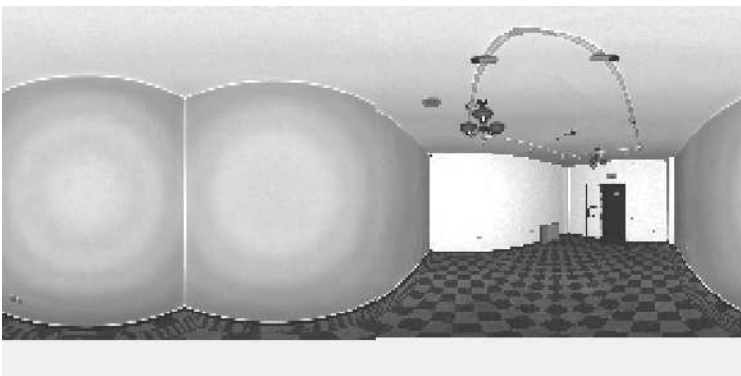
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned with Z+F Imager 5016 on 2014-10-23 10:00:00. The scan was performed with the scanner 'Z+F IMAGER 5016' serial number '5016-0100' firmware '9.0.3.6562-0'.

Registration matrix:
0.728477 -0.685071 0.001300 24.7833 m
0.685069 0.728479 0.000919 18.8872 m
-0.001575 0.000219 1.000000 1.7313 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '265'

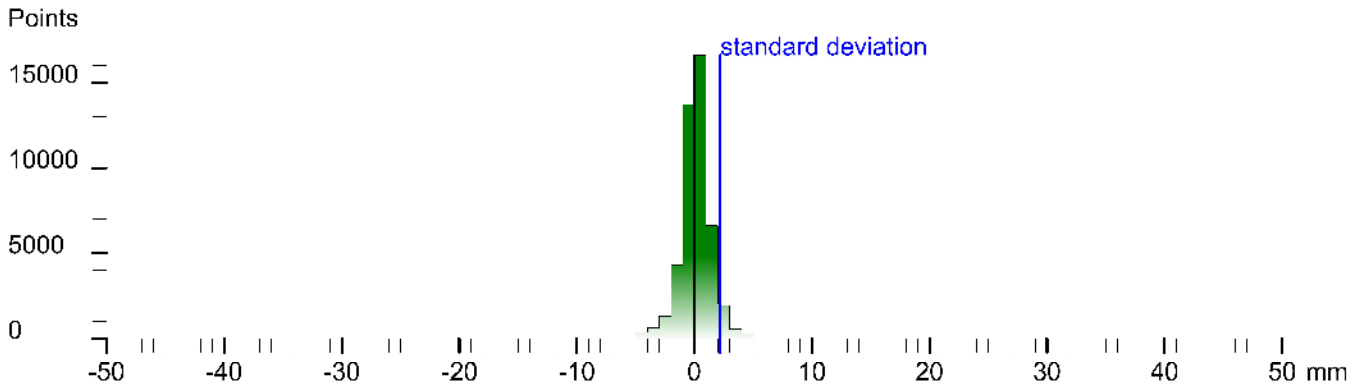
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.462927 -0.886397 0.000655 19.6792 m
0.886398 0.462929 0.000394 19.8129 m
-0.000651 0.000396 1.000001 1.7425 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 2.2 mm

Deviation histogram



Scan '265'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

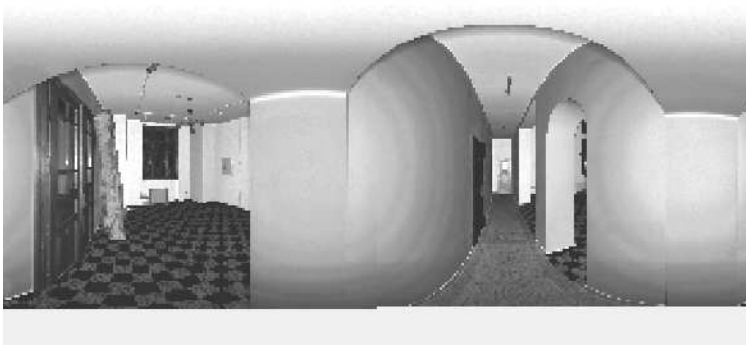
Metadata	Value
comment	
operator	

Scanned with Z+F Imager 5016 on 2023-10-27 at 10:00:00.000. Scan resolution: High. Quality: Normal. Scan area: 1.74 x 1.74 m. Scan range: 1.74 m. Scan speed: 1.74 m/s. Scan time: 1.74 s. Scan date: 2023-10-27. Scan time: 10:00:00.000. Scan location: 1.74 x 1.74 m. Scan range: 1.74 m. Scan speed: 1.74 m/s. Scan time: 1.74 s. Scan date: 2023-10-27. Scan location: 1.74 x 1.74 m.

```

Registration: 102h
Base matrix: 0.462927 0.886398 -0.000651 19.6792
Registration: 0.886398 0.462929 0.000394 19.8129
Registration: -0.000651 0.000396 1.000001 1.7425
Registration: 0.000000 0.000000 0.000000 1.0000
    
```

Level system info: dynamic compensator available.



Scan position '266'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

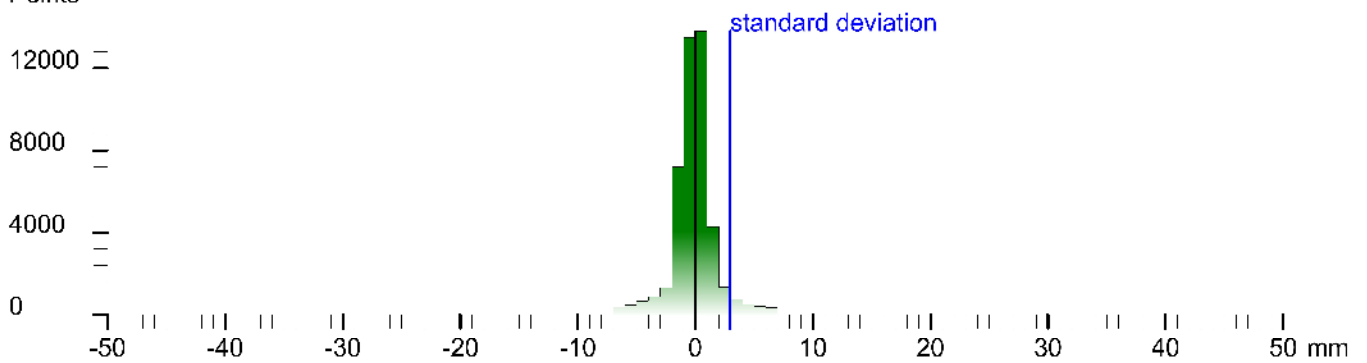
Registration matrix:

0.959500	0.281711	0.001273	21.5757 m
-0.281713	0.959501	0.000402	21.0223 m
-0.001106	-0.000743	1.000000	1.7615 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:3.0 mm

Deviation histogram

Points



Scan '266'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

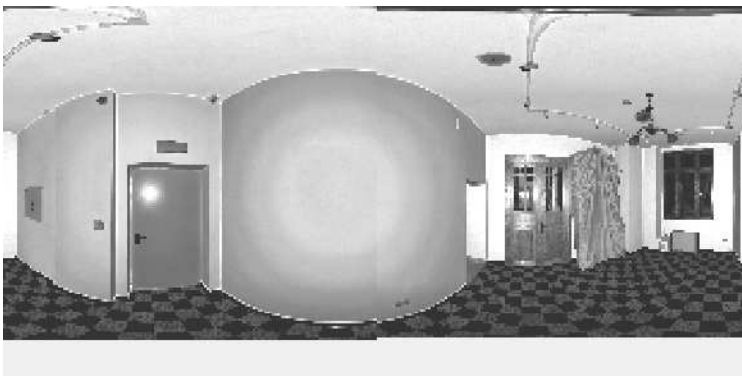
File name: C:\Users\johnd\Documents\Z+F\201607\20160713\001\20160713_001_266.ctb

```

Registration:
Point cloud: 10871386 points, resolution: 0.5 mm
Barcode: 0198801001
Registration matrix:
0.959500 0.281711 0.001273 21.5757 m
-0.281713 0.959501 0.000402 21.0223 m
-0.001106 -0.000743 1.000000 1.7615 m
0.000000 0.000000 0.000000 1.0000

```

Level system info: dynamic compensator available.



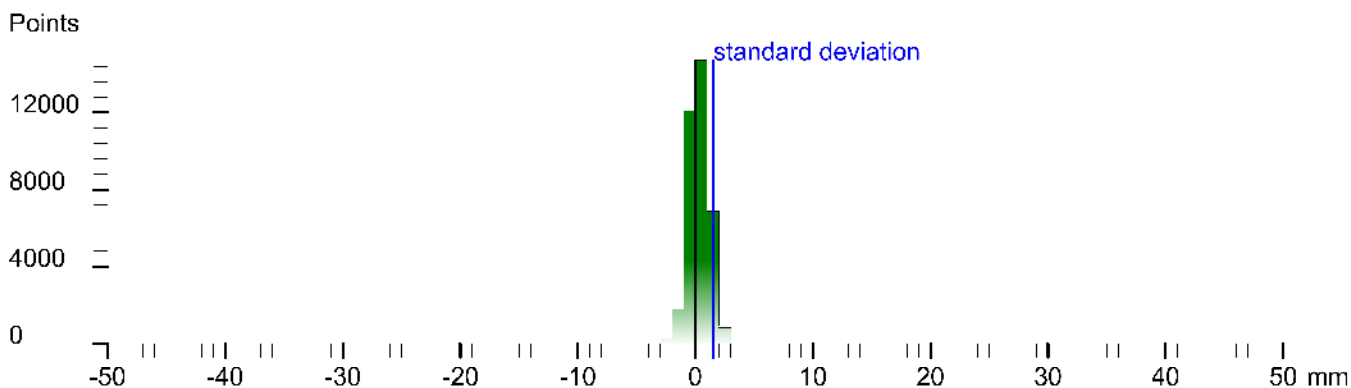
Scan position '268'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.240528 0.970642 0.002003 20.3073 m  
-0.970643 0.240527 0.000048 14.1448 m  
-0.000435 -0.001953 0.999999 1.7563 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram



Scan '268'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F Imager 5016 on 2023-08-14 15:00:00.000. Scan ID: 268. Scan position: 268. Scan status: Success. Scan resolution: High. Scan quality: Normal. Scan registration: Cloud to cloud. Standard deviation: 1.5 mm. Scan registration matrix:  
0.240528 0.970642 0.002003 20.3073 m  
-0.970643 0.240527 0.000048 14.1448 m  
-0.000435 -0.001953 0.999999 1.7563 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '269'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

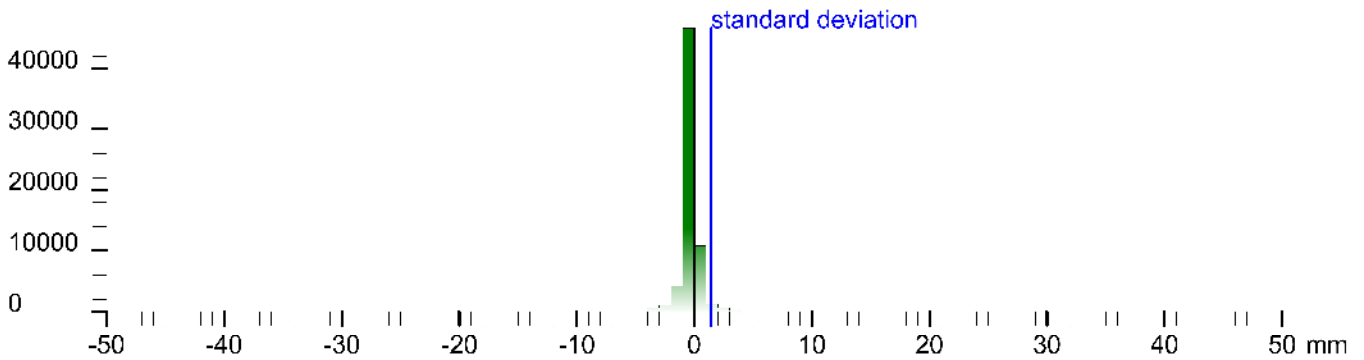
Registration matrix:

```
0.585437 0.810717 0.001922 23.0580 m
-0.810719 0.585438 -0.000134 13.8864 m
-0.001232 -0.001478 0.999999 1.7476 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '269'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2023-08-02 10:41:00 (UTC+02:00) File: 2023-08-02_10:41:00_269.ctb File size: 10.0 MB File type: CTB File format: CTB File version: 1.0 File creation date: 2023-08-02 10:41:00 File modification date: 2023-08-02 10:41:00 File path: C:\Users\user\Documents\2023-08-02_10:41:00_269.ctb

```
Registration: 100% (no manual intervention required)
Error matrix: 0.585437 0.810717 0.001922 23.0580 m
-0.810719 0.585438 -0.000134 13.8864 m
-0.001232 -0.001478 0.999999 1.7476 m
0.000000 0.000000 0.000000 1.0000
Registration: 100% (no manual intervention required)
Error matrix: 0.585437 0.810717 0.001922 23.0580 m
-0.810719 0.585438 -0.000134 13.8864 m
-0.001232 -0.001478 0.999999 1.7476 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '270'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

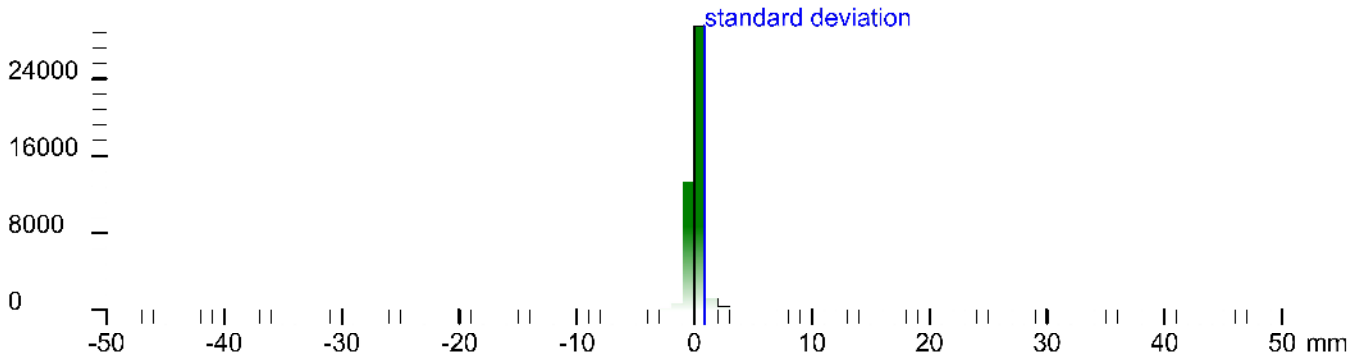
Registration matrix:

0.069080	0.997611	0.001806	21.9248 m
-0.997613	0.069080	-0.000739	11.6498 m
-0.000862	-0.001748	0.999999	1.7514 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 0.9 mm

Deviation histogram

Points



Scan '270'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2023-10-27 10:27:00 (UTC+02:00) Scan location: [102h] registered with cloud to cloud

Registration matrix:

Registration matrix: [102h] registered with cloud to cloud

Registration matrix: [102h] registered with cloud to cloud

Registration matrix: [102h] registered with cloud to cloud

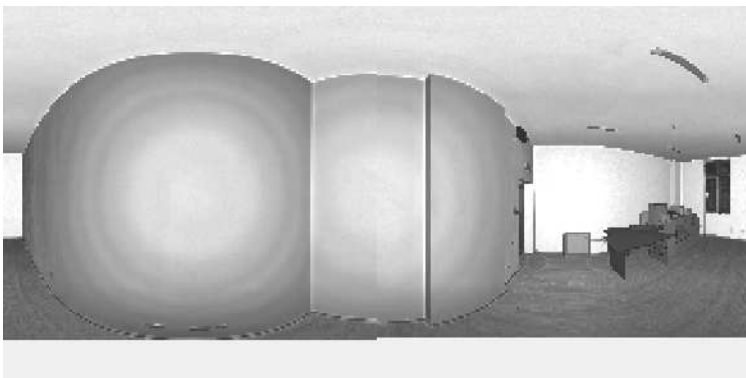
Registration matrix: [102h] registered with cloud to cloud

Registration matrix: [102h] registered with cloud to cloud

Registration matrix: [102h] registered with cloud to cloud

Registration matrix: [102h] registered with cloud to cloud

Level system info: dynamic compensator available.



Scan position '271'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

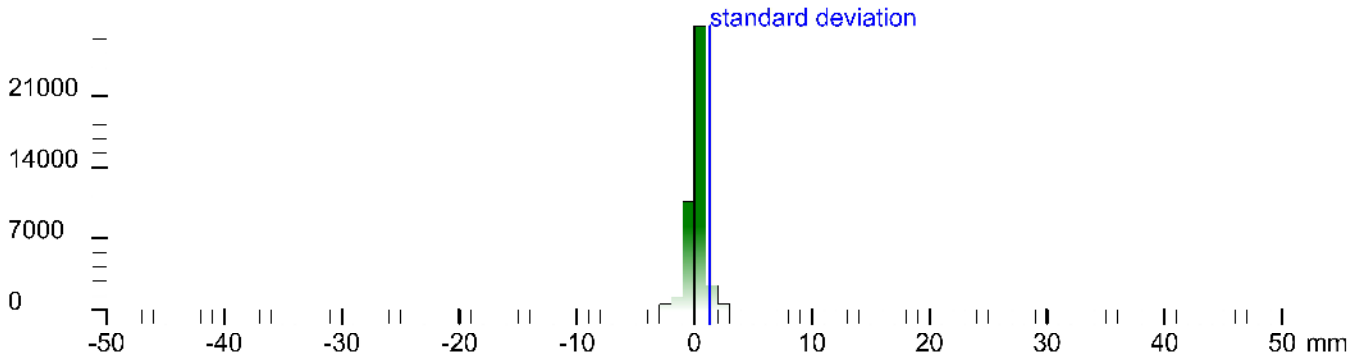
Registration matrix:

```
-0.251250  0.967922  0.002026  19.9076 m
-0.967924  -0.251252  -0.000052  12.8860 m
0.000458  -0.001972  0.999999  1.7529 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '271'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on: 2023-08-02 10:40:00.000. Scan ID: 271. Scan type: 3D. Scan mode: Normal. Scan resolution: High. Scan quality: Normal. Scan status: Success. Scan time: 00:00:00.000. Scan date: 2023-08-02 10:40:00.000.

```
Registration: 100% (cloud-to-cloud)
Error matrix: [0.000000 0.000000 0.000000 0.000000]
Registration: 100% (cloud-to-cloud)
Error matrix: [0.000000 0.000000 0.000000 0.000000]
Registration: 100% (cloud-to-cloud)
Error matrix: [0.000000 0.000000 0.000000 0.000000]
Registration: 100% (cloud-to-cloud)
Error matrix: [0.000000 0.000000 0.000000 0.000000]
Registration: 100% (cloud-to-cloud)
Error matrix: [0.000000 0.000000 0.000000 0.000000]
```

Level system info: dynamic compensator available.



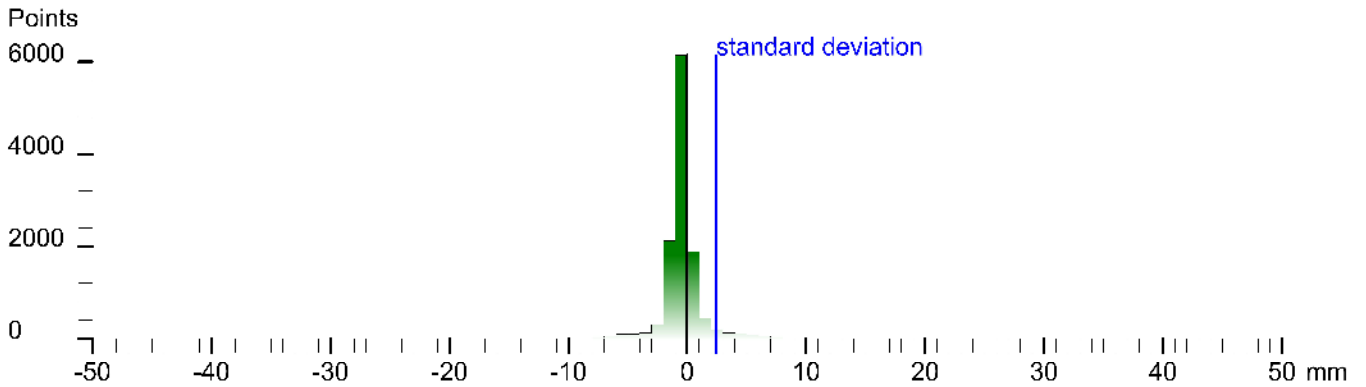
Scan position '272'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.993253 -0.115968 0.001587 19.9732 m  
0.115968 0.993255 -0.000556 11.8582 m  
-0.001508 0.000737 1.000000 1.7506 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.4 mm

Deviation histogram



Scan '272'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned on: 2023-10-27 10:27:45 (UTC+02:00) by: [redacted]  
Scanned by: [redacted]  
Registration: 102h  
Base match: 0.993253, Err: 0.0774643 m  
New translation: 2.40065 m, 0.28175 m, 45.2120 m, rotation: 0.1001 m, 0.0000 m, 0.0101 m  
New rotation: 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000  
operator: [redacted]  
File info per file: [redacted]  
1:002 40 24 0 000 40 0000  
1:124 0000 0 0 0 20000  
1:000 0000 1 0 0 48277  
1:000 0000 0 0 0 1000
```

Level system info: dynamic compensator available.



Scan position '273'

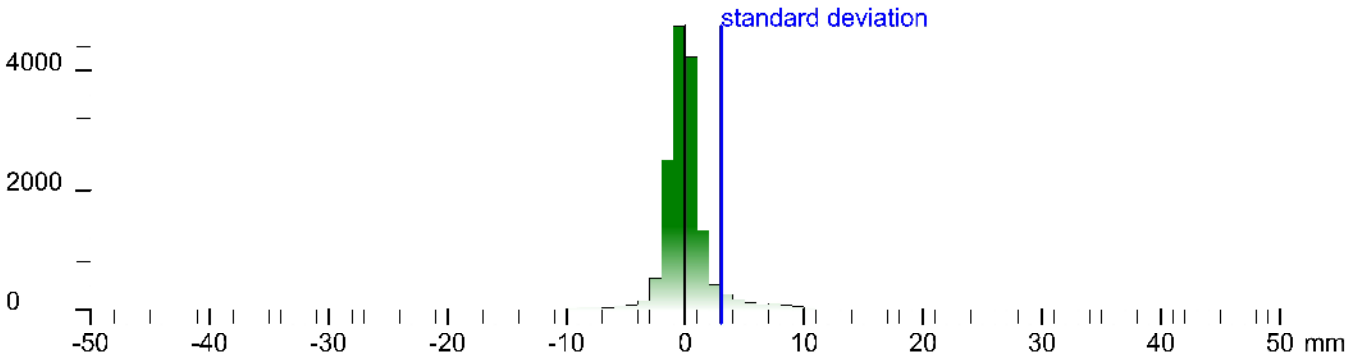
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.561570 -0.827430 0.001225 20.0120 m
0.827428 -0.561570 -0.002040 11.8214 m
0.002374 -0.000134 0.999998 0.3712 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:3.0 mm

Deviation histogram

Points



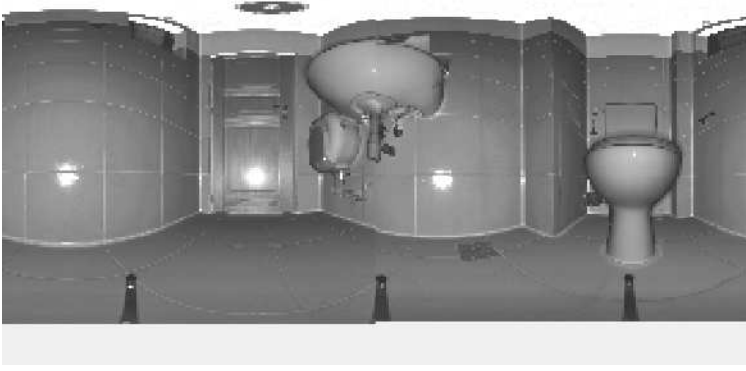
Scan '273'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned on: 2020-08-10 12:41:00 (UTC) | 273 | scan | 102h | registered with cloud to cloud | registration matrix: 0.001225 0.002374 0.000000 20.0120 m
0.827428 -0.000134 0.999998 11.8214 m
-0.561570 -0.000000 0.000000 0.3712 m
0.000000 0.000000 1.000000 0.0000 m
Registration matrix:
0.001225 0.002374 0.000000 20.0120 m
0.827428 -0.000134 0.999998 11.8214 m
-0.561570 -0.000000 0.000000 0.3712 m
0.000000 0.000000 1.000000 0.0000 m
```

Level system info: dynamic compensator available.



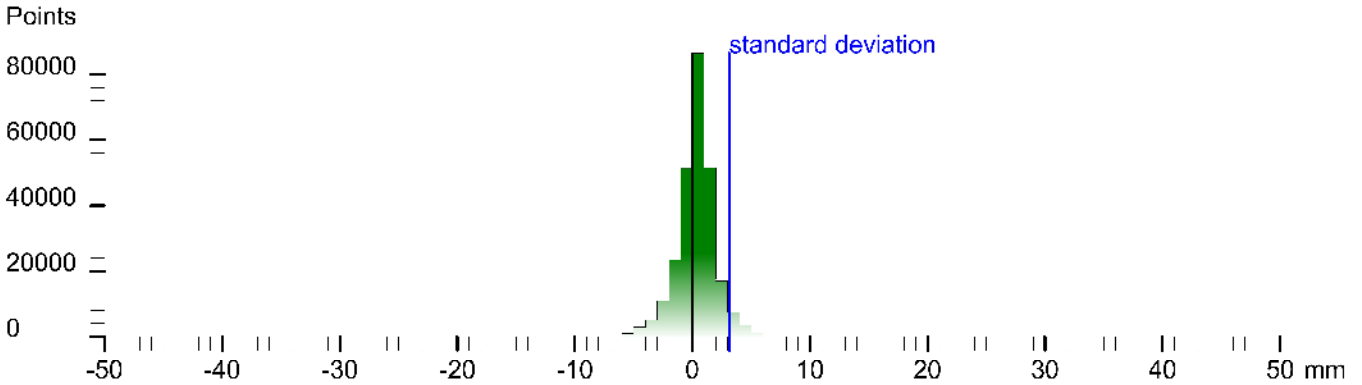
Scan position '274'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
0.999986  0.005291 -0.000203  1.4982 m  
-0.005291 0.999986  0.000285 -1.1023 m  
0.000204 -0.000284  1.000000  0.2978 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:3.1 mm

Deviation histogram



Scan '274'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F Imager 5016 on 2025-09-23 10:10:10. The scanner is located at 49.4781478264, 10.2640000000, 52.0000000000. The scan was performed with the following parameters:  
Resolution: 0.218750 mm  
Scan rate: 2.5000 Hz  
Scan area: 0.5000 x 0.5000 m  
Scan distance: 1.5000 m  
Scan speed: 0.5000 m/s  
Scan quality: High  
Scan resolution: 0.218750 mm  
Scan resolution: 0.218750 mm  
Scan resolution: 0.218750 mm  
Scan resolution: 0.218750 mm  
Scan resolution: 0.218750 mm
```

Level system info: dynamic compensator available.



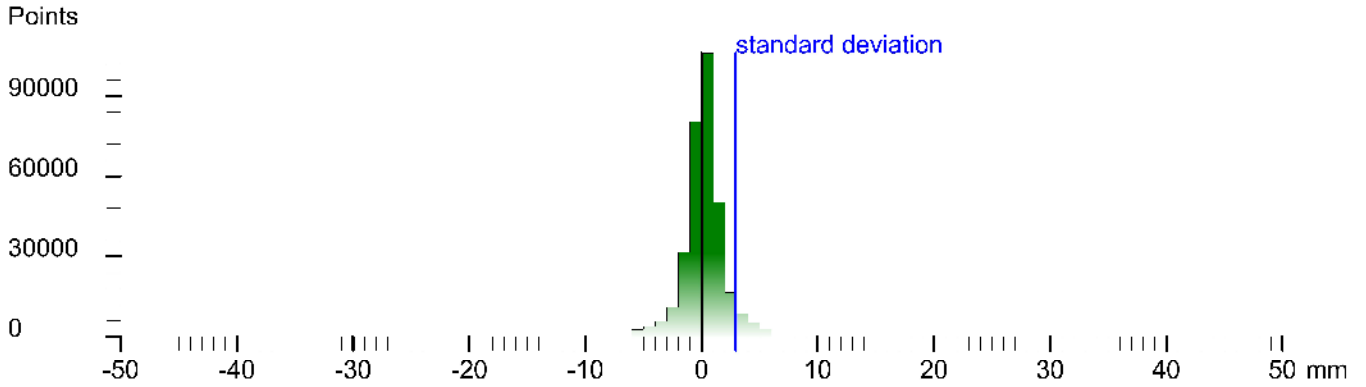
Scan position '28'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.434795  0.900530  0.000765  -9.2855 m
-0.900530  -0.434795  0.000353  23.0615 m
0.000651  -0.000535  1.000000  -0.1547 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 3.0 mm

Deviation histogram



Scan '28'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2023-10-27 14:30:00 (UTC+02:00) [2023-10-27 14:30:00] [102h] registered with cloud to cloud
Series:
  Name: '102h'
  Base station: '218162' [0.5, 0.53] m
  Rev: '00000000' [2.70696, -2.2931, 1.2198] m [0.000000, 0.000000, 0.000000] m
  Rev: '00000000' [0.000000, 0.000000, 0.000000] m [0.000000, 0.000000, 0.000000] m
  Registration:
    RS [0.434795, 0.900530, 0.000765] [0.900530, -0.434795, 0.000353] [0.000651, -0.000535, 1.000000] [-9.2855, 23.0615, -0.1547] m
  Base station: (operator)
  User: 'Z+F IMAGER 5016'
  Date: '2023-10-27 14:30:00'
  Time: '00:00:00'
  User: 'Z+F IMAGER 5016'
  Date: '2023-10-27 14:30:00'
  Time: '00:00:00'
```

Level system info: dynamic compensator available.



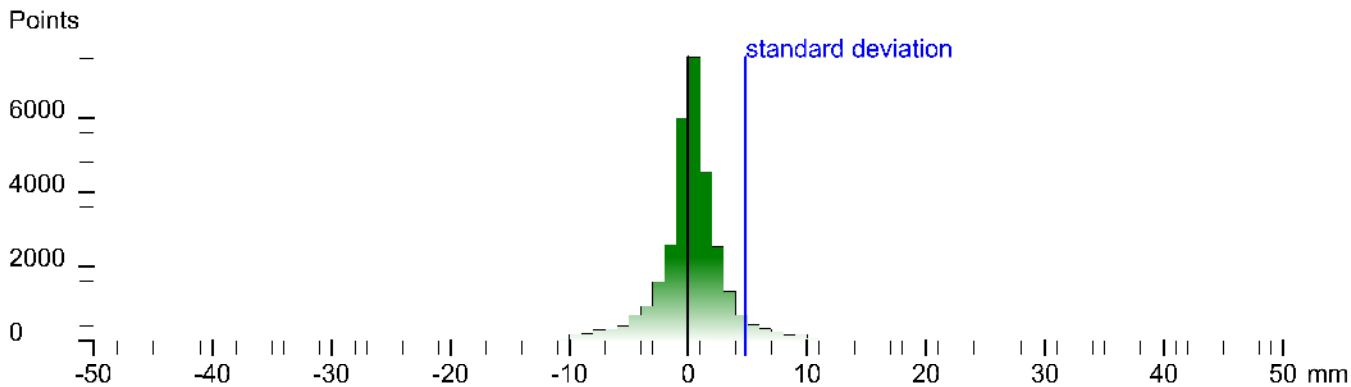
Scan position '280'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

-0.927544	0.373323	-0.017088	2.1317 m
-0.373250	-0.927702	-0.007378	-1.6401 m
-0.018606	-0.000465	0.999827	-1.2573 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:4.8 mm

Deviation histogram



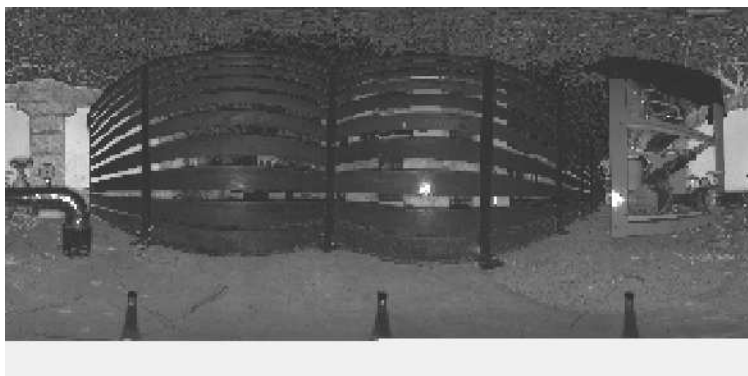
Scan '280'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scanned: 4/11/2024 08:18:10  
Header  
point: 280 (3) -> point: 280 (4)  
Euler matrix: [ 0.9999999999999999 0.0000000000000000 0.0000000000000000 0.0000000000000000  
0.0000000000000000 0.9999999999999999 0.0000000000000000 0.0000000000000000  
0.0000000000000000 0.0000000000000000 0.9999999999999999 0.0000000000000000  
1.0000000000000000  
Operator: [Operator]  
Scale: 0.0000000000000000  
Unit: 1.0000000000000000  
Color: 0.0000000000000000  
2.0000000000000000  
0.0000000000000000
```

Level system info: no information about the level system stored in the zfs header



Scan position '3'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

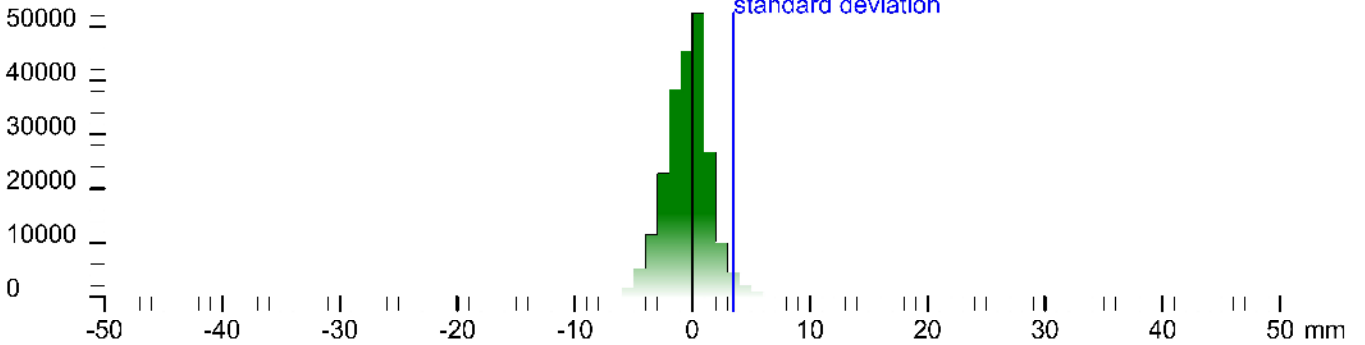
Registration matrix:

```
-0.274273 -0.961651 -0.000897 7.7056 m
 0.961652 -0.274274 0.000557 -0.2131 m
-0.000782 -0.000710 0.999999 0.1448 m
 0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 3.5 mm

Deviation histogram

Points



Scan '3'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Sensor
name: '301'
parameter: transition registration
EureMetric: 122289.546616 m
rev: 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
operator:
rev: 1.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
EureMetric: 122289.546616 m
rev: 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
EureMetric: 122289.546616 m
EureMetric: 122289.546616 m
EureMetric: 122289.546616 m
EureMetric: 122289.546616 m

```

Level system info: dynamic compensator available.



Scan position '31'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

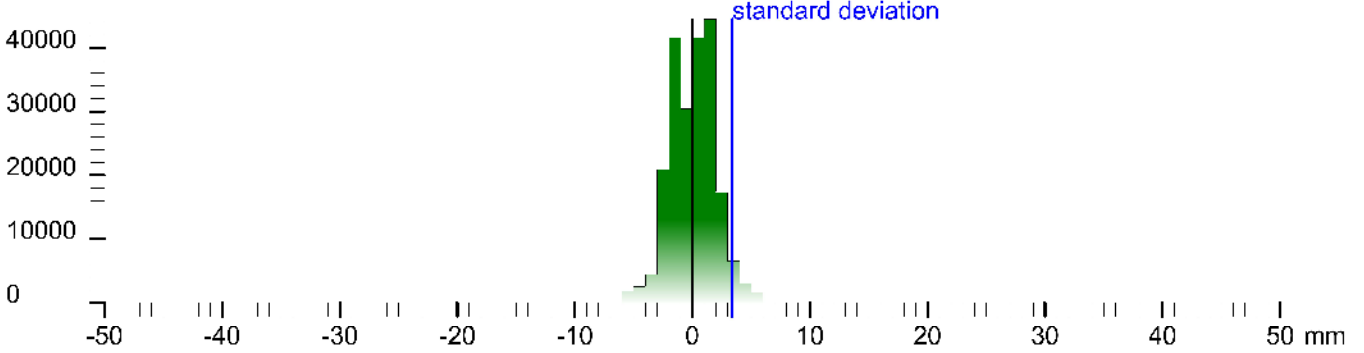
Registration matrix:

0.880738	0.473605	0.000420	-7.5393 m
-0.473605	0.880737	0.001445	10.1821 m
0.000315	-0.001471	0.999999	-0.0725 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 3.4 mm

Deviation histogram

Points



Scan '31'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan name: '31' File name: '31' File path: '31' File size: '31' File type: '31' File creation: '31' File modification: '31' File access: '31' File permissions: '31'
 Scan date: '31' Scan time: '31' Scan location: '31' Scan status: '31' Scan quality: '31' Scan resolution: '31' Scan quality: '31'
 Scanner: 'Z+F IMAGER 5016' Serial number: '5016-0100' Firmware: '9.0.3.6562-0'
 Scan resolution: 'High' Quality: 'Normal'
 Registration matrix:
 0.880738 0.473605 0.000420 -7.5393 m
 -0.473605 0.880737 0.001445 10.1821 m
 0.000315 -0.001471 0.999999 -0.0725 m
 0.000000 0.000000 0.000000 1.0000
 Result registration cloud to cloud standard deviation: 3.4 mm

Level system info: dynamic compensator available.



Scan position '4'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

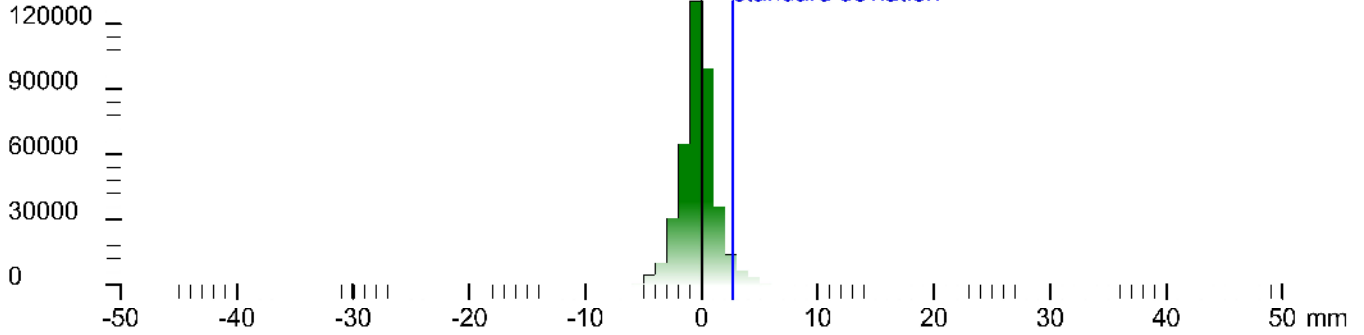
Registration matrix:

```
-0.344091 -0.938936 -0.000679 11.0440 m
 0.938936 -0.344091 0.000423 3.1974 m
-0.000631 -0.000492 1.000000 0.2020 m
 0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram

Points



Scan '4'

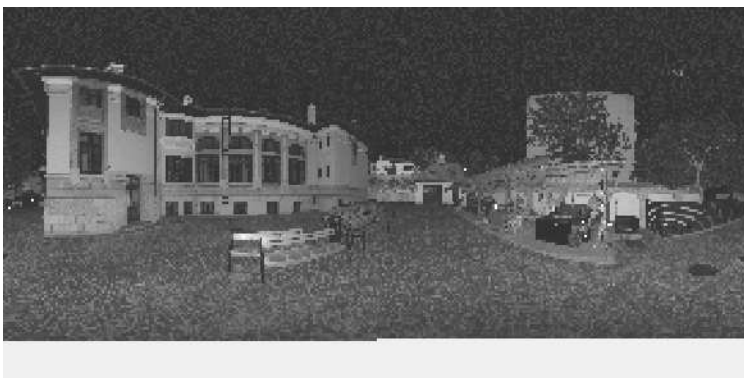
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scan: 2023-10-26 12:44:23 (UTC) - 2023-10-26 12:44:23 (UTC) - 2023-10-26 12:44:23 (UTC) - 2023-10-26 12:44:23 (UTC)
Comment:
Operator:
Registration:
Scale: 1000
Base rotation: 0.122682361530339 m
New rotation: 0.122682361530339 m
New rotation: 0.122682361530339 m
Registration:
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
RST: [0.938936, -0.344091, 0.000423] [0.000631, 0.000492, 1.000000] [11.044, 3.1974, 0.202]
```

Level system info: dynamic compensator available.



Scan position '40'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

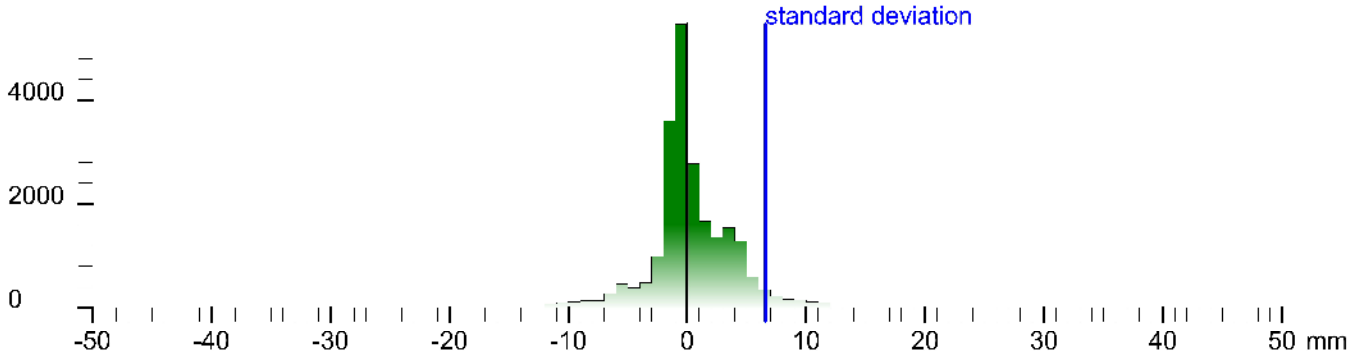
Registration matrix:

```
-0.840908  0.541177  0.000819  43.3778 m
-0.541177 -0.840908  0.000440  31.8982 m
 0.000926 -0.000073  1.000000   5.0019 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 6.6 mm

Deviation histogram

Points



Scan '40'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

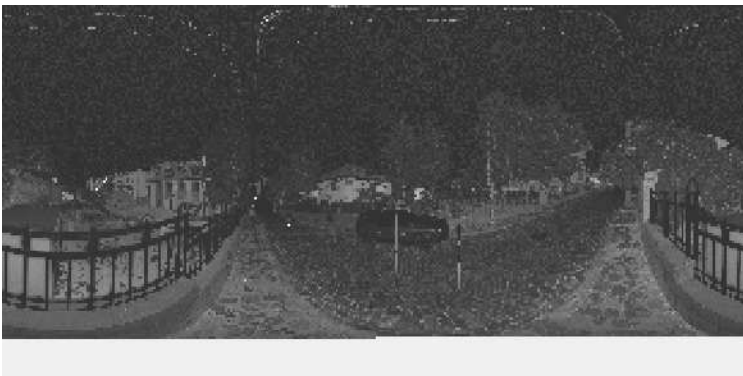
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.00928 m x 1.0741 m x 1.0741 m (3.000 m x 1.0741 m x 1.0741 m) [102h] registered with cloud to cloud'

```
Scan position: '40' (position) registration matrix:
Earth position: [1250] East 2,40396 m
New position: 47.824 m x 49.438 m x 1.905 m (new) [102h] registered with cloud to cloud'
New position: 0.00000000 0.00000000 1.00000000 0.00000000 0.00000000 0.00000000 0.00000000
operator:
GPS: 49.175104 lat; 10.065112 longitude; height: 43.3778 m; speed: 2.4 m; course: 6.6 mm (standard deviation)
Epoch: 663478.659 m; Sat: 541981.26 m; zone: 35E
Registration matrix:
[0.000926 -0.000073 1.000000 5.0019]
[-0.840908  0.541177  0.000819  43.3778]
[-0.541177 -0.840908  0.000440  31.8982]
[0.000000  0.000000  0.000000  1.0000]
```

Level system info: dynamic compensator available.



Scan position '42'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

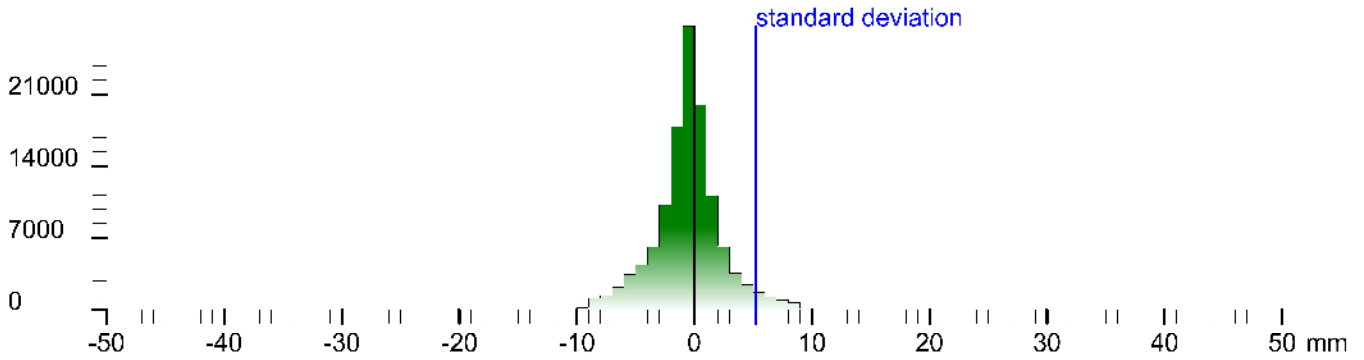
Registration matrix:

```
-0.927764  0.373165  0.000611  39.4849 m
-0.373165 -0.927765  0.000175  2.9161 m
0.000631  -0.000065  1.000000  4.4780 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 5.2 mm

Deviation histogram

Points



Scan '42'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.1152 m x 8.9550 m x 29.4396 m; resolution: 10,2255 m; FOV: 22.59 m; 0.0011 m; registration: 0.000631 m; 0.000065 m; 1.000000; 4.4780 m

Scanner:

Model: 5016

Barcode: 516772 ECR-20 2787 m

Resolution: 4.1152 m x 8.9550 m x 29.4396 m; resolution: 10,2255 m; FOV: 22.59 m; 0.0011 m

Registration: 0.000631 m; 0.000065 m; 1.000000; 4.4780 m

Operator: [redacted]

GPS: 45.4782° N; 10.0052° E; height: 7.00 m; 1.11 m; 5.11 m; 6.8 m; 5.0 m; 5.0 m; 5.0 m; 5.0 m; 5.0 m

Level system info: dynamic compensator available

Level system info: (operator)

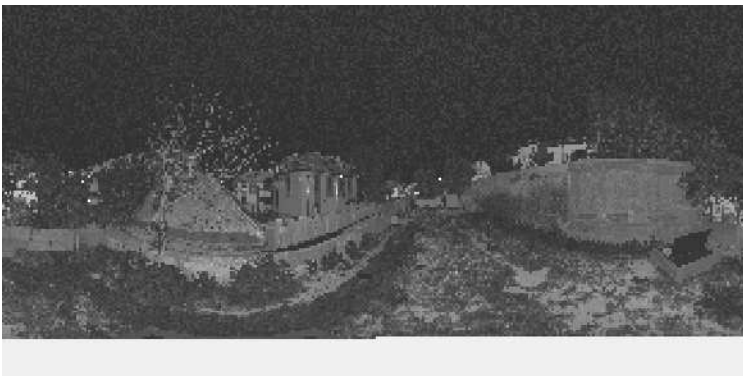
Level system info: (operator)

Level system info: (operator)

Level system info: (operator)

Level system info: (operator)

Level system info: dynamic compensator available.



Scan position '43'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

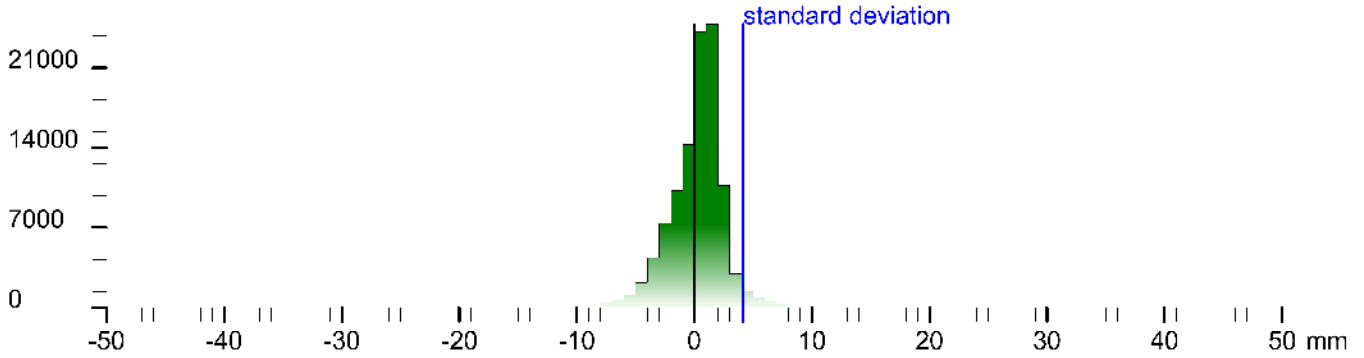
Registration matrix:

```
-0.283021 -0.959113 -0.001168 0.4224 m  
0.959113 -0.283022 0.001058 4.0754 m  
-0.001346 -0.000821 0.999999 0.2336 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:4.2 mm

Deviation histogram

Points



Scan '43'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value

comment	operator
---------	----------

Scanned with Z+F Imager 5016 (102h) registered with cloud to cloud. Status registration '[102h] registered with cloud to cloud'. Scan resolution 'High' quality 'Normal'.

```
Registration: 102h (102h) registered with cloud to cloud  
Registration matrix: 0.283021 0.959113 -0.001168 0.4224 m  
0.959113 -0.283022 0.001058 4.0754 m  
-0.001346 -0.000821 0.999999 0.2336 m  
0.000000 0.000000 0.000000 1.0000  
Registration: 102h (102h) registered with cloud to cloud  
Registration matrix: 0.283021 0.959113 -0.001168 0.4224 m  
0.959113 -0.283022 0.001058 4.0754 m  
-0.001346 -0.000821 0.999999 0.2336 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '44'

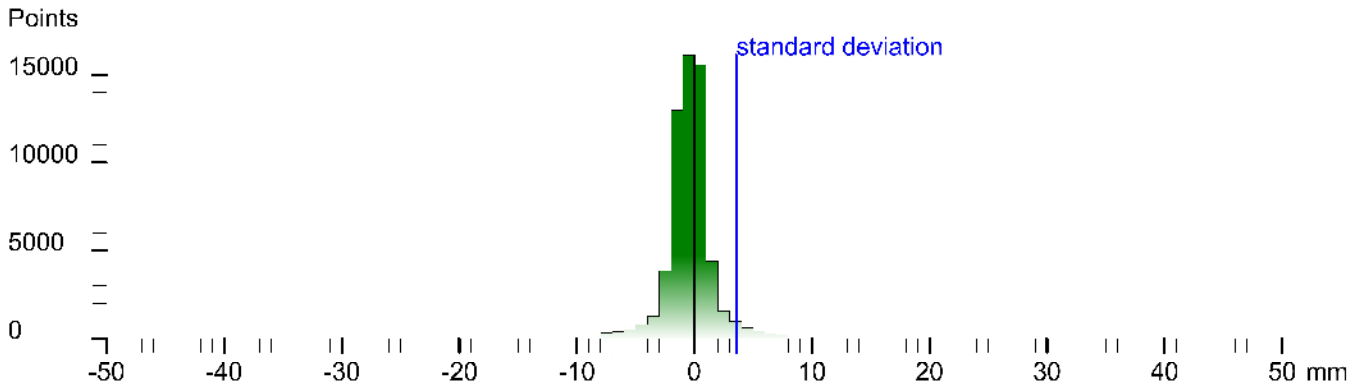
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.998468  -0.055331  -0.000695  1.5493 m
0.055332   0.998467   0.001471  4.8456 m
0.000612  -0.001507   0.999999  0.2343 m
0.000000   0.000000   0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation:3.6 mm

Deviation histogram



Scan '44'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

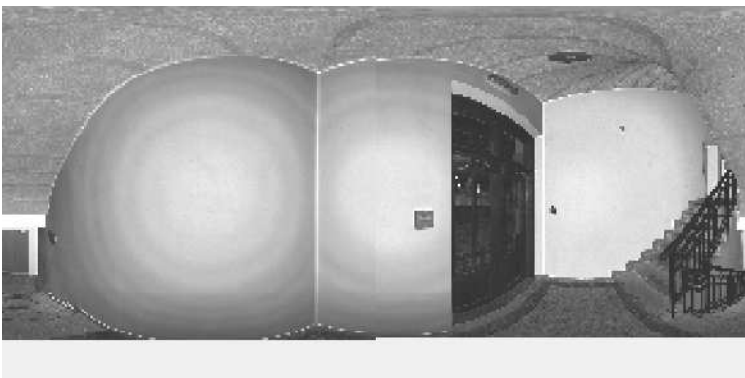
Metadata Value

comment
operator

```

Scan name: 1-11-2024 15:07:00_11-2024 15:07:00 - 11-2024 15:07:00_11-2024 15:07:00 - 11-2024 15:07:00_11-2024 15:07:00
Sensor:
Resolution: 10810 x 10810 pixels (10810 x 10810 pixels)
Equirectangular: 0.998468 0.055332 0.000612 1.5493 m
0.055332 0.998467 0.001471 4.8456 m
0.000612 -0.001507 0.999999 0.2343 m
1.000000
Operator:
FH-Insta-perthle (Dresden)
0.998468 0.055332 0.000612 1.5493 m
0.055332 0.998467 0.001471 4.8456 m
0.000612 -0.001507 0.999999 0.2343 m
1.000000
    
```

Level system info: dynamic compensator available.



Scan position '45'

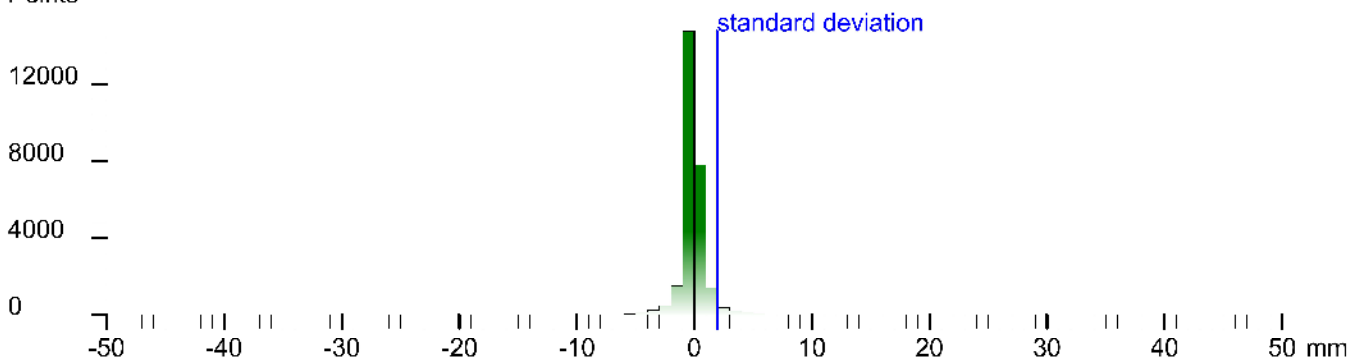
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.136966 -0.990576 -0.000840 1.2074 m
0.990576 -0.136967 0.000544 8.3400 m
-0.000654 -0.000758 1.000000 -1.4397 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram

Points



Scan '45'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

```
Scanned: 2017-05-11 10:24:00 (UTC) by: [redacted]
Sector:
Registration: 1081 (no transformation recorded)
Error matrix: [0.17782 0.00000 0.00000]
min. distance: 1.7575 m (2.292 m) accuracy: 5.8975 m (5.8975 m) (1.0001)
max. distance: 50.0000 m (50.0000 m) resolution: 0.2500 m (0.2500 m) (0.0000)
operator: [redacted]
File data path: [redacted]
[0.285 0.000 0.000]
[0.000 0.000 0.000]
[0.000 0.000 1.000]
[0.000 0.000 0.000]
```

Level system info: dynamic compensator available.



Scan position '46'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

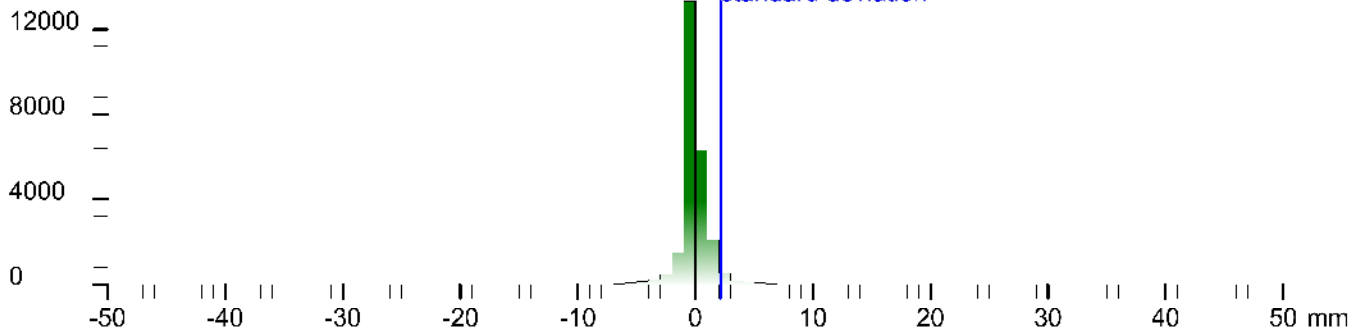
Registration matrix:

```
-0.721383  0.692535  0.001360  1.7764 m
-0.692535 -0.721384  0.000863  9.0116 m
 0.001578 -0.000319  0.999999 -1.3398 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.1 mm

Deviation histogram

Points



Scan '46'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

File name: C:\Users\j... \Documents\... \Z+F IMAGER 5016\... \Scan '46'. File size: 11.5 MB. File type: ...

Registration matrix:

Translation: 0.001360 0.000863 1.7764 m

Rotation: 0.999999 -0.000319 0.001578

Scale: 1.000000

Standard deviation: 2.1 mm

Metadata:

Comment:

Operator:

Registration matrix:

Translation: 0.001360 0.000863 1.7764 m

Rotation: 0.999999 -0.000319 0.001578

Scale: 1.000000

Standard deviation: 2.1 mm

Level system info: dynamic compensator available.



Scan position '47'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

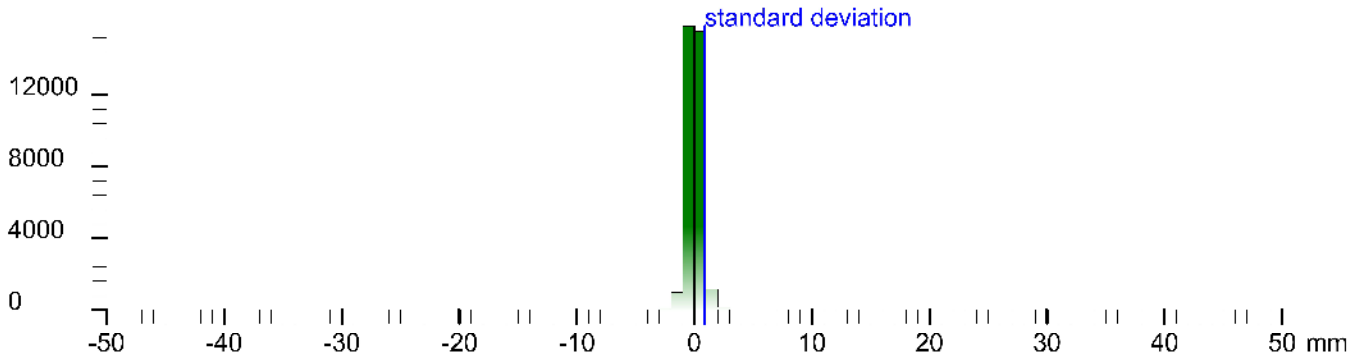
Registration matrix:

```
-0.696250  0.717799  0.000818 -0.8806 m  
-0.717799 -0.696250  0.000657  9.8189 m  
0.001041 -0.000130  0.999999 -1.2508 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 0.9 mm

Deviation histogram

Points



Scan '47'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

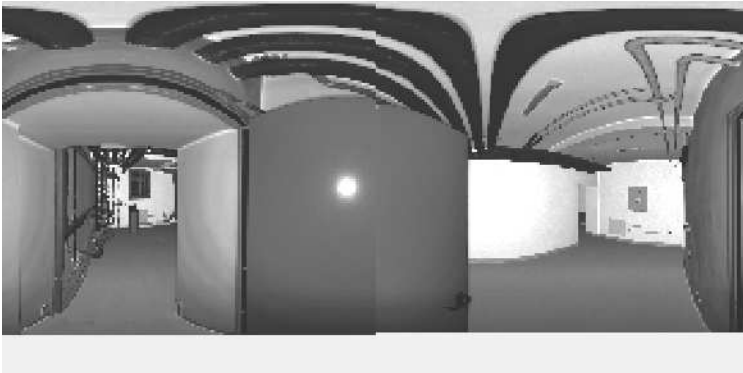
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

From scan '47' to scan '102h' registration matrix: [102h] registered with cloud to cloud'

```
Registration matrix:  
-0.696250  0.717799  0.000818 -0.8806 m  
-0.717799 -0.696250  0.000657  9.8189 m  
0.001041 -0.000130  0.999999 -1.2508 m  
0.000000  0.000000  0.000000  1.0000
```

Level system info: dynamic compensator available.



Scan position '48'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

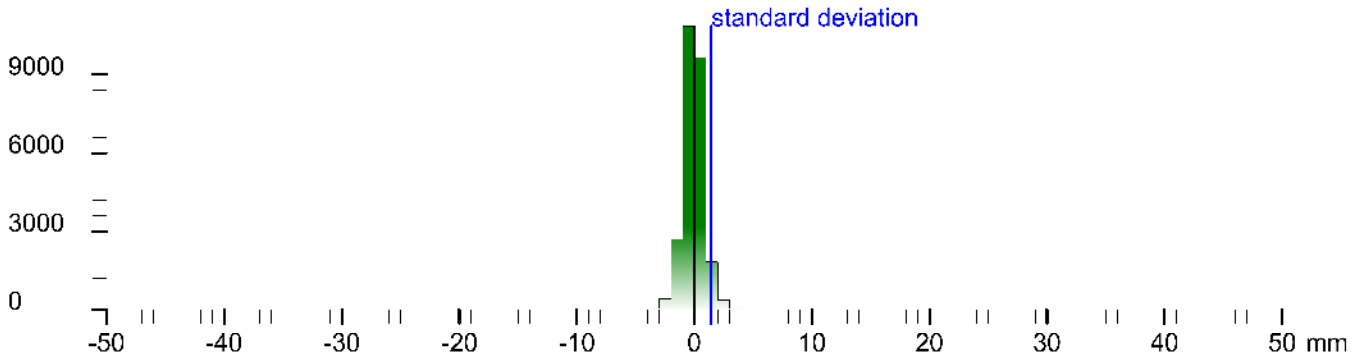
Registration matrix:

```
0.304845  0.952402  0.000872  -0.9689 m
-0.952402  0.304844  0.001249  8.8157 m
0.000923  -0.001211  0.999999  -1.3237 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '48'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution High, quality Normal, scan position 48, registration method Cloud to Cloud, standard deviation 1.4 mm, registration matrix: [0.304845 0.952402 0.000872 -0.9689 -0.952402 0.304844 0.001249 8.8157 0.000923 -0.001211 0.999999 -1.3237 0.000000 0.000000 0.000000 1.0000]

```
Registration: 108711 (dynamic compensation recording)
Error matrix: [0.18137 0.307724 m
rev. translation: [2.2685 0.04795 0.401179 m, accuracy: 5.9017 m, 5.9997 m, 11.0017
rev. rotation: [0.0000 0.0000 0.0000 rad, accuracy: 0.0000 0.0000 0.0000 rad
operator: [redacted]
FH data profile: [redacted]
[0.196 0.655 0.000 4.644
[0.37 0.299 0.000 10.657
[0.00 0.000 0.00 0.000]
[0.00 0.000 0.00 0.000
```

Level system info: dynamic compensator available.



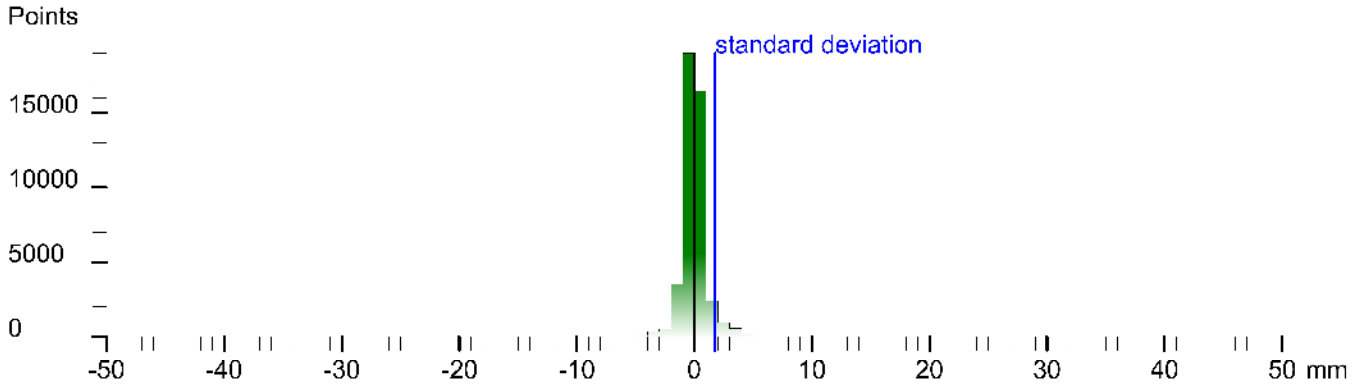
Scan position '49'

Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

-0.242275	0.970208	0.001029	-1.7080 m
-0.970207	-0.242276	0.001244	5.9830 m
0.001456	-0.000697	0.999999	-1.3292 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram



Scan '49'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2023-08-03 10:24:00 (UTC+02:00) [102h] registered with cloud to cloud  
Series:  
  registration: 102h [102h] registered with cloud to cloud  
  Base matrix: [0.242275 0.970208 0.001029 -1.7080 m]  
  New rotation: [0.970207 -0.242276 0.001244 5.9830 m]  
  New translation: [-0.001456 0.000697 -0.999999 1.3292 m]  
  registration: 102h [102h] registered with cloud to cloud  
  Base matrix: [0.242275 0.970208 0.001029 -1.7080 m]  
  New rotation: [0.970207 -0.242276 0.001244 5.9830 m]  
  New translation: [-0.001456 0.000697 -0.999999 1.3292 m]
```

Level system info: dynamic compensator available.



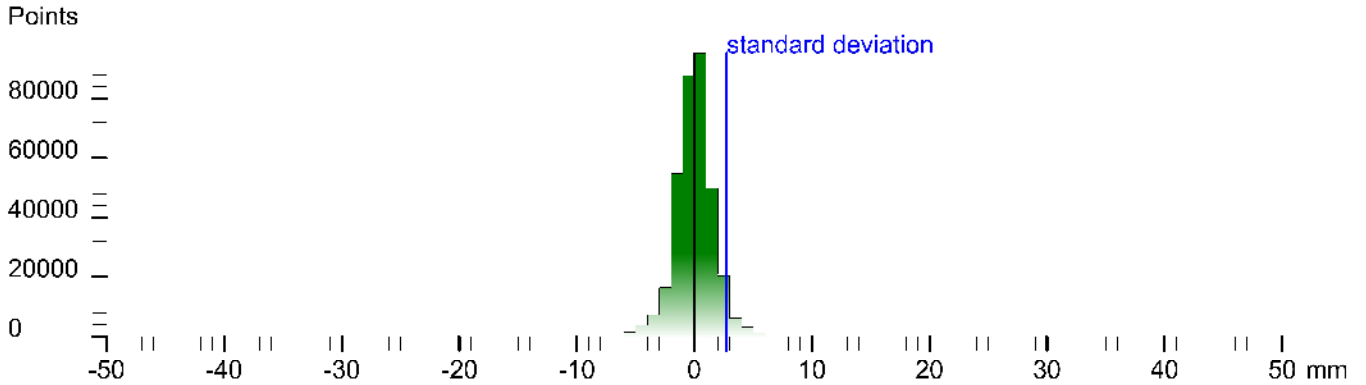
Scan position '5'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.915430 -0.402477 -0.000724 9.4943 m
 0.402476 -0.915430 0.000377 9.4543 m
-0.000814 0.000054 1.000000 0.2443 m
 0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram



Scan '5'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scanned with Z+F Imager 5016 (102h) registered with cloud to cloud. Registration matrix: [-0.915430 -0.402477 -0.000724 9.4943; 0.402476 -0.915430 0.000377 9.4543; -0.000814 0.000054 1.000000 0.2443; 0.000000 0.000000 0.000000 1.0000]
Scan resolution: High
Quality: Normal
Comment:
Operator:
Level system info: dynamic compensator available.
```



Scan position '50'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

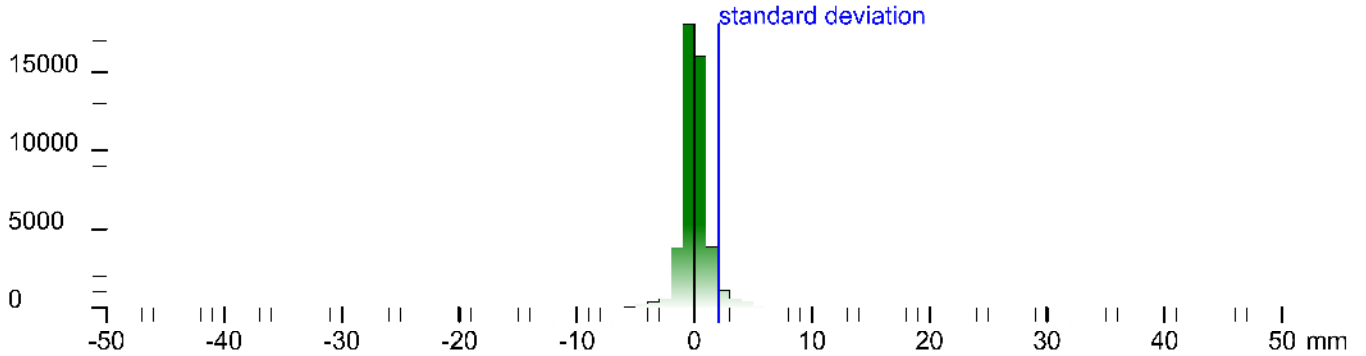
Registration matrix:

```
-0.963098  0.269152  0.000369 -3.5731 m
-0.269152 -0.963098  0.000592  5.5431 m
 0.000515  0.000470  1.000000 -1.3269 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.1 mm

Deviation histogram

Points



Scan '50'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000000 m x 3.000000 m (10.000000 m²)

```
Registration: 10871 (cloud to cloud transition record)
Error matrix: 0.175882 0.000369
New rotation: 41.72621  -0.269152  -0.963098
New position: 5.543100  0.000515  -3.573100
Registration: 10872 (cloud to cloud transition record)
Error matrix: 0.269152  0.000592
New rotation: 0.000470  0.000515  1.000000
New position: 0.000000  0.000000  1.000000
```

Level system info: dynamic compensator available.



Scan position '51'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

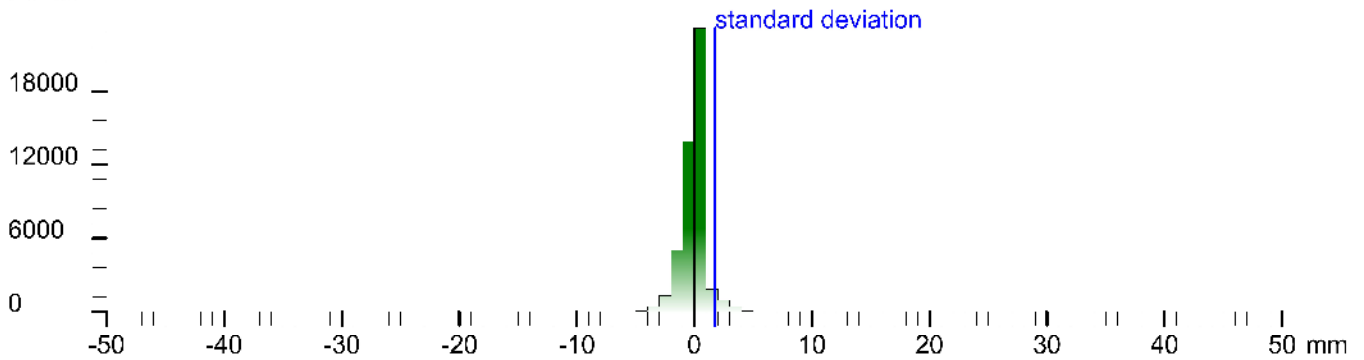
Registration matrix:

```
-0.592242 -0.805761 -0.000404 -3.0186 m
0.805760 -0.592242 0.000867 8.3242 m
-0.000938 0.000188 1.000000 -1.3291 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.8 mm

Deviation histogram

Points



Scan '51'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

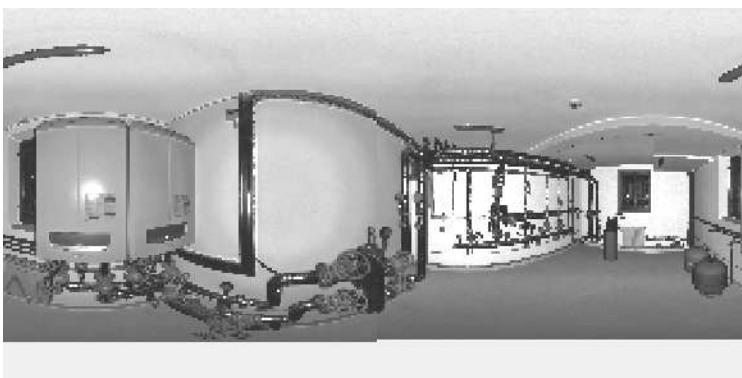
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned: 2017-08-01 10:44:00 (UTC) [102h] registered with cloud to cloud

```
Registration: 102h [102h] registered with cloud to cloud
Error matrix: [0.592242 0.805761 -0.000404 -3.0186 m
0.805760 -0.592242 0.000867 8.3242 m
-0.000938 0.000188 1.000000 -1.3291 m
0.000000 0.000000 0.000000 1.0000]
Registration: 102h [102h] registered with cloud to cloud
Error matrix: [0.592242 0.805761 -0.000404 -3.0186 m
0.805760 -0.592242 0.000867 8.3242 m
-0.000938 0.000188 1.000000 -1.3291 m
0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



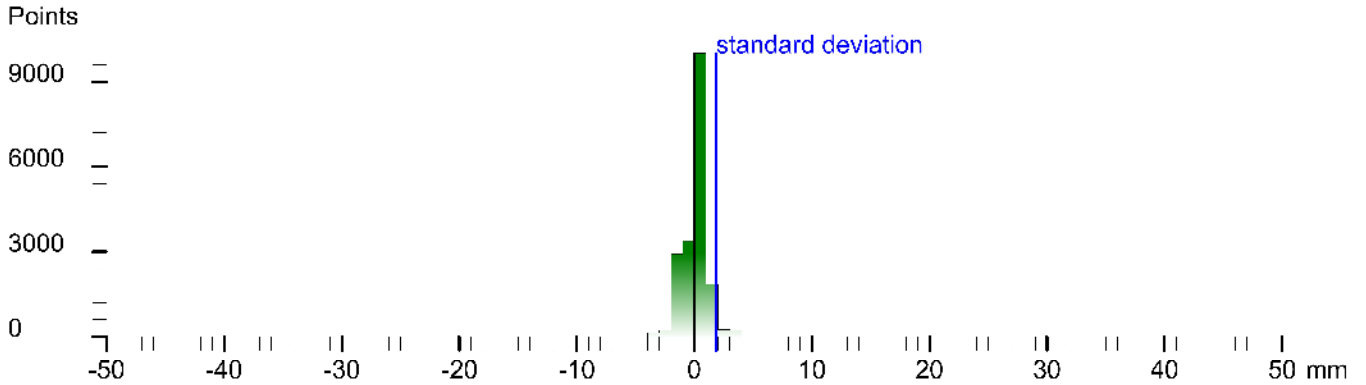
Scan position '52'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.948843 -0.315750 -0.000419 -1.2985 m
0.315750 -0.948843 0.000444 10.9951 m
-0.000538 0.000289 1.000000 -1.3460 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram



Scan '52'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned with Z+F Imager 5016 on 2023-10-24 10:00:00 (UTC+02:00) at 10:00:00. Scan area: 10.00 m x 10.00 m. Scan resolution: 0.100 mm. Scan quality: Normal. Scan status: Success. Scan time: 00:00:15.000. Scan date: 2023-10-24 10:00:00. Scan position: 52. Scan group: [102h]. Scan registration: cloud to cloud. Scan standard deviation: 1.9 mm. Scan comment: [102h] registered with cloud to cloud. Scan operator: [102h]. Scan matrix: -0.948843 -0.315750 -0.000419 -1.2985 m 0.315750 -0.948843 0.000444 10.9951 m -0.000538 0.000289 1.000000 -1.3460 m 0.000000 0.000000 0.000000 1.0000. Scan metadata: comment: operator:
```

Level system info: dynamic compensator available.



Scan position '54'

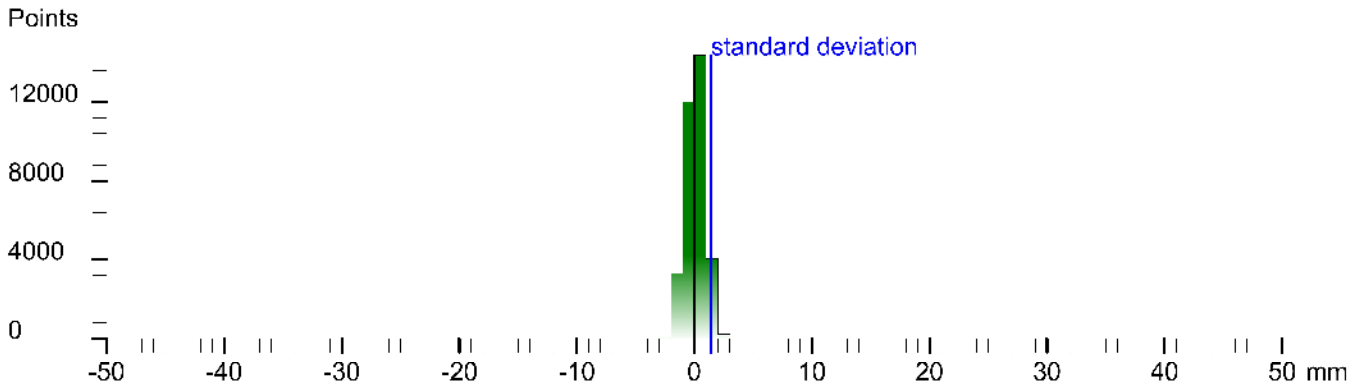
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.544485 -0.838771 -0.000132 -1.9626 m
0.838770 0.544484 0.001632 12.0475 m
-0.001297 -0.000999 0.999999 -1.3490 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram



Scan '54'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

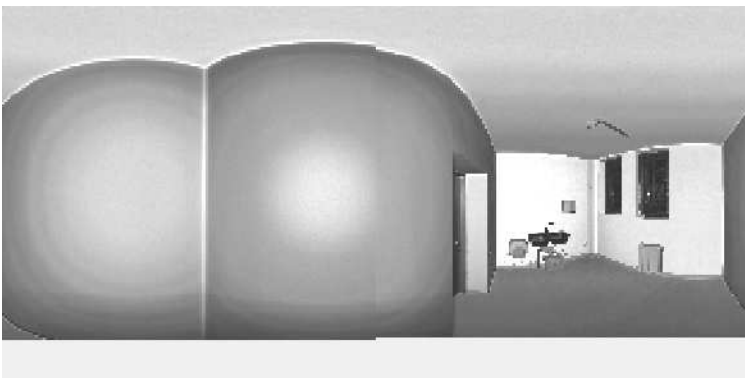
Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution 'High', quality 'Normal', scan position '54', registration cloud to cloud standard deviation: 1.4 mm.

```

Registration matrix:
0.544485 -0.838771 -0.000132 -1.9626 m
0.838770 0.544484 0.001632 12.0475 m
-0.001297 -0.000999 0.999999 -1.3490 m
0.000000 0.000000 0.000000 1.0000
    
```

Registration matrix:
 0.544485 -0.838771 -0.000132 -1.9626 m
 0.838770 0.544484 0.001632 12.0475 m
 -0.001297 -0.000999 0.999999 -1.3490 m
 0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '55'

Scan position is member of group(s):

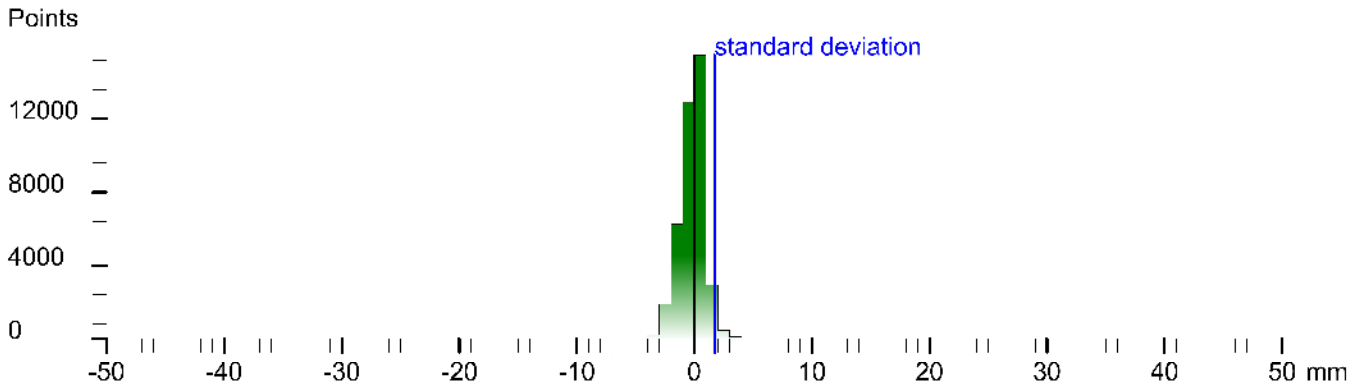
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.679381  0.733785  0.001234  2.1703 m
-0.733784 -0.679382  0.000983  11.8314 m
 0.001560 -0.000237  0.999999 -1.3440 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.7 mm

Deviation histogram



Scan '55'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

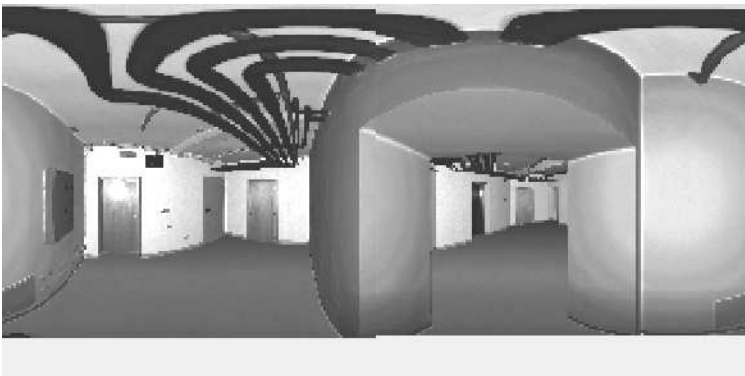
Metadata	Value
comment	
operator	

```

Scanned: 2024-09-10 10:10:00
Scan ID: 102
Registration: cloud to cloud
Standard deviation: 1.7 mm
Points: 13000
Scan resolution: High
Quality: Normal

```

Level system info: dynamic compensator available.



Scan position '56'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

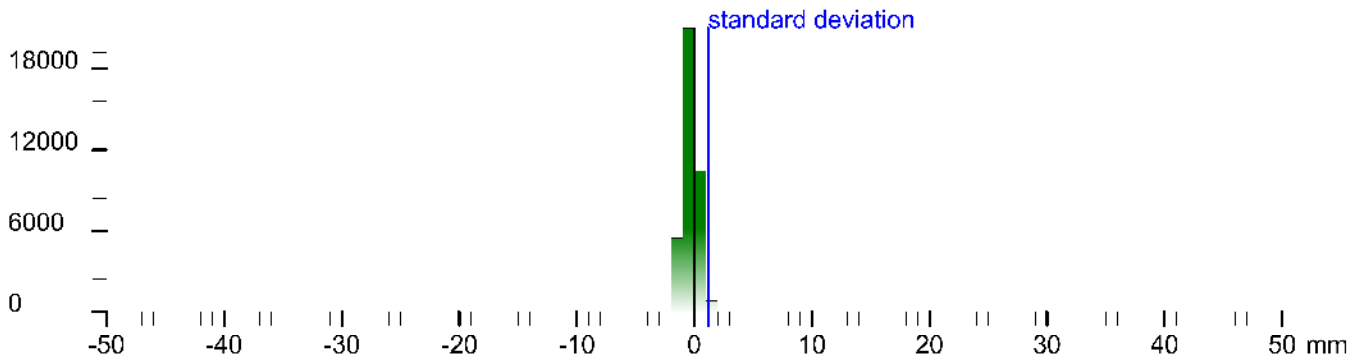
Registration matrix:

-0.912266	-0.409599	-0.000204	0.9356 m
0.409599	-0.912266	0.001007	13.6583 m
-0.000599	0.000835	0.999999	-1.3506 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



Scan '56'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan area: 4.00438m x 0.00438m (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m) (0.00438m x 0.00438m)

Registration: 10811 (parameter: transition record)
Error matrix: 0.17506 0.00000 0.00000 m
New translation: 4.00438 0.00000 0.00000 m
New rotation: 0.00000 0.00000 0.00000 rad
Registration: 10811 (parameter: transition record)
Error matrix: 0.17506 0.00000 0.00000 m
New translation: 4.00438 0.00000 0.00000 m
New rotation: 0.00000 0.00000 0.00000 rad

Level system info: dynamic compensator available.



Scan position '57'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

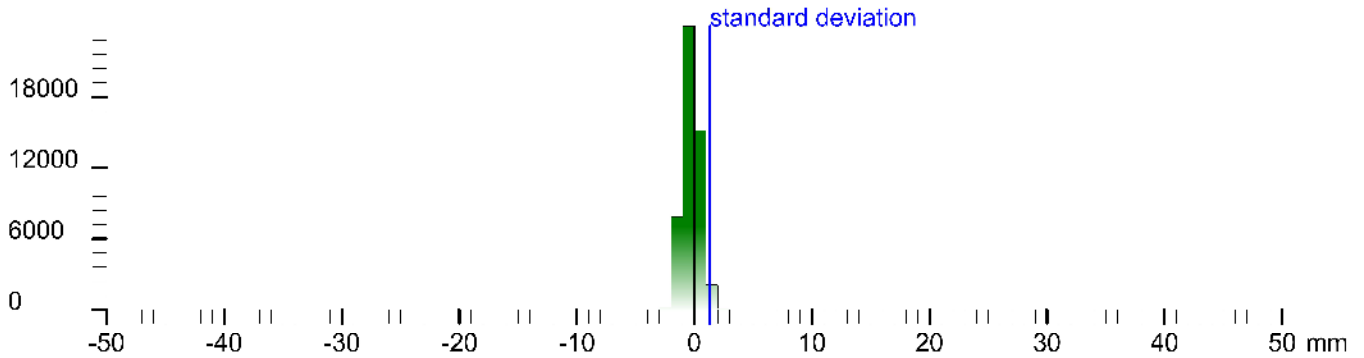
Registration matrix:

```
-0.583623 -0.812025 -0.000322 -1.8833 m  
0.812024 -0.583623 0.000931 13.7609 m  
-0.000944 0.000282 1.000000 -1.3586 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '57'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned on 2023-10-27 10:28:00 (UTC+02:00) by [redacted] at [redacted] (IP: [redacted])

```
Registration: 1087 (cloud to cloud registration)  
Error matrix: [0.17568 0.00000 0.00000 0.00000]  
min. distance: 2.7185 m    max. distance: 3.9929 m    accuracy: 0.0029 m    1.0000  
min. resolution: 0.0000 m    max. resolution: 0.0000 m    1.0000  
operator: [redacted]  
File name prefix: [redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]
```

Level system info: dynamic compensator available.



Scan position '58'

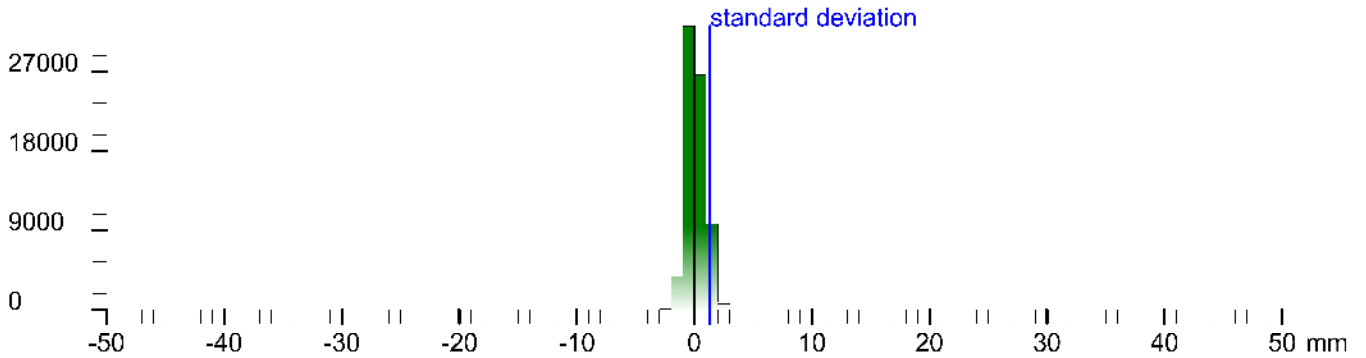
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.421853 -0.906665 -0.000594 -3.4454 m
 0.906663 -0.421853  0.001463 15.7205 m
-0.001577  0.000079  0.999999 -1.3611 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '58'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned with Z+F Imager 5016 (102h) registered with cloud to cloud. Registration matrix: [-0.421853 -0.906665 -0.000594 -3.4454 m; 0.906663 -0.421853 0.001463 15.7205 m; -0.001577 0.000079 0.999999 -1.3611 m; 0.000000 0.000000 0.000000 1.0000]

```
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
Registration: 102h registered with cloud to cloud
```

Level system info: dynamic compensator available.



Scan position '59'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

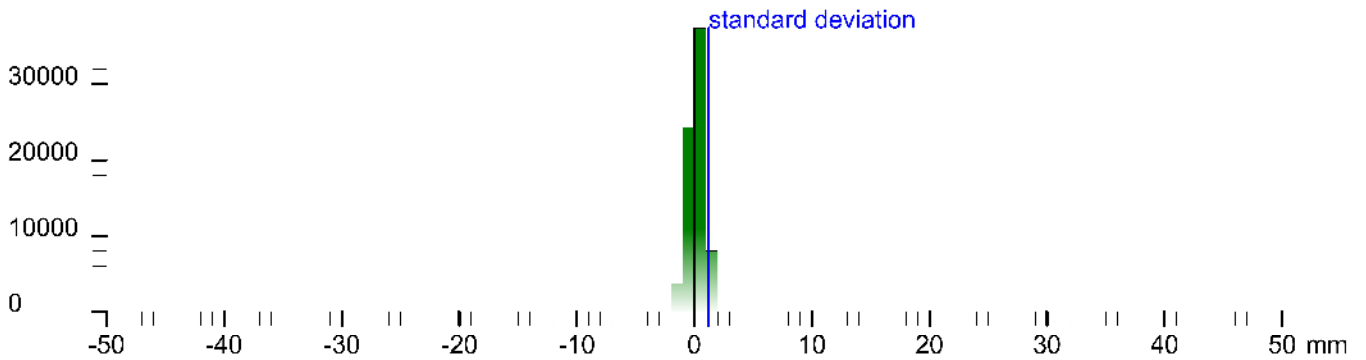
Registration matrix:

```
0.927604 -0.373567 -0.000207 -0.2781 m
0.373566 0.927601 0.002285 15.6084 m
-0.000662 -0.002197 0.999997 -1.3618 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.2 mm

Deviation histogram

Points



Scan '59'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

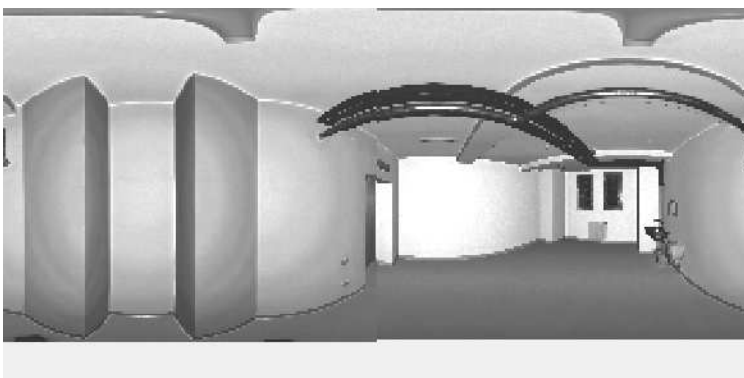
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution High, quality Normal, scan position 59, registration cloud to cloud, standard deviation 1.2 mm

```
Registration: 102h [102h] registered with cloud to cloud
Error matrix: 0.927604 -0.373567 -0.000207 -0.2781 m
rev. translation: 1.000000 0.000000 0.000000 0.000000 m
rev. rotation: 0.000000 0.000000 0.000000 0.000000 rad
operator:
FH data profile: 102h
0.927604 0.373567 0.000207 0.2781 m
0.373566 0.927601 0.002285 15.6084 m
-0.000662 -0.002197 0.999997 -1.3618 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '6'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

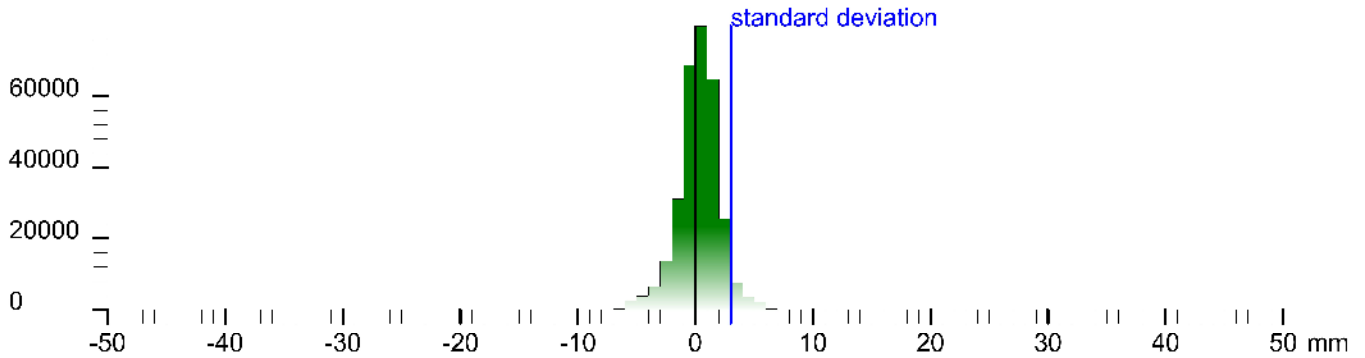
Registration matrix:

```
0.625875 -0.779923 -0.000664 12.6017 m
0.779923 0.625874 0.001504 11.6178 m
-0.000757 -0.001459 0.999999 0.2983 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 3.0 mm

Deviation histogram

Points



Scan '6'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scan name: 4-01-2023_10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00 - 10_00_00
Sector:
  Position: 140°
  Error matrix: 0.12590 0.07199 0.00066
  Rotation matrix: 0.779923 0.625874 0.001504
  Translation vector: 12.6017 11.6178 0.2983
  Registration matrix:
    0.625875 -0.779923 -0.000664 12.6017 m
    0.779923 0.625874 0.001504 11.6178 m
    -0.000757 -0.001459 0.999999 0.2983 m
    0.000000 0.000000 0.000000 1.0000
  Level system: static
  Level system info: dynamic compensator available

```



Scan position '63'

Scan position is member of group(s):

Status registration '[10123h]' preregistered with cloud to cloud, manually'

Registration matrix:

```
-0.353184 -0.935546 -0.003980  3.4455 m
 0.935552 -0.353190  0.001125  8.9219 m
-0.002458 -0.003326  0.999991 -1.3665 m
 0.000000  0.000000  0.000000  1.0000
```

Scan '63'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan name: S:\111\4216\5016_Scan_63.ctb [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb] [Storage: S:\111\4216\5016.ctb]

```
Resolution: 0.05 mm/pixel at scan position
Frame rate: 300 frames/sec - 10.092 m
Ray resolution: 2.500 mm - 2.500 mm - 41.6795 mm (radius): 0.0070 m 0.0070 m 0.0001 m
New resolution: 0.0010 m 0.000 253.8859 mm/s (radius): 0.0000 0.0000 15.0000
Type: Standard
Frame resolution (mm):
X: 0.0500 0.0500 0.0000 0.0000
Y: 0.0500 0.0500 0.0000 0.0000
Z: 0.0000 0.0000 0.0000 0.0000
```

Level system info: dynamic compensator available.



Scan position '65'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

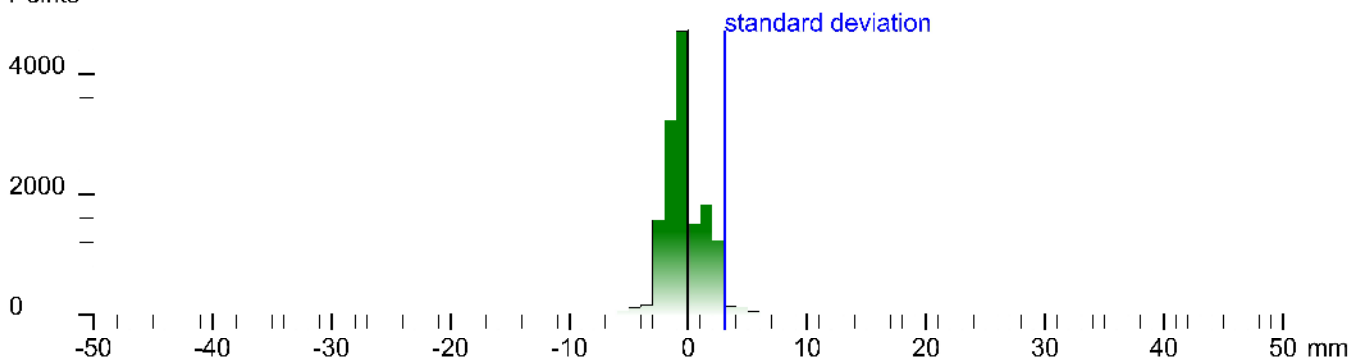
Registration matrix:

```
-0.117261 0.993097 0.003163 3.1806 m
-0.993102 -0.117260 -0.000352 5.2669 m
0.000021 -0.003183 0.999995 -1.3670 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 3.1 mm

Deviation histogram

Points



Scan '65'

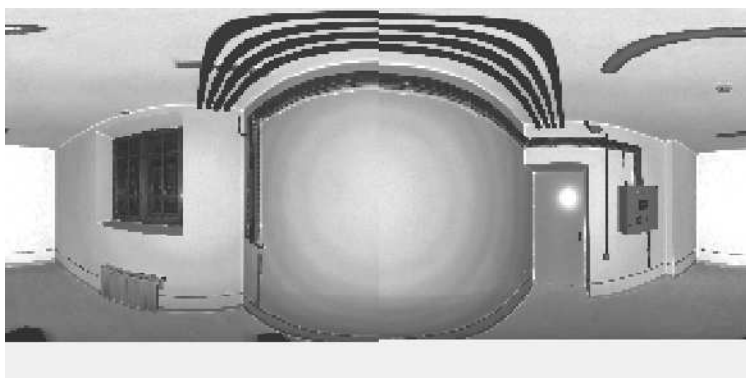
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2024-08-12 10:15:10 (UTC+02:00) [102h] registered with cloud to cloud
Sensor:
  position: 1087113 (name) (transition record)
  Base position: 218128 East -40.0336 m
  max. distance: 27.0877 m | 2909 | 140.3765 m | accuracy: 7.041 m | 1.0-5 m | 1.000
  max. resolution: 0.0000 m | 0.0000 | 0.001450 m | 0.001450 m | 0.001450 m | 0.001450 m | 0.001450 m | 0.001450 m
  registration:
  FH: data position: 1087113
  0.028 0.646 0.000 -0.449
  0.000 0.028 0.000 0.449
  0.000 0.000 1.000 0.000
  0.000 0.000 0.000 1.000
```

Level system info: dynamic compensator available.



Scan position '68'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

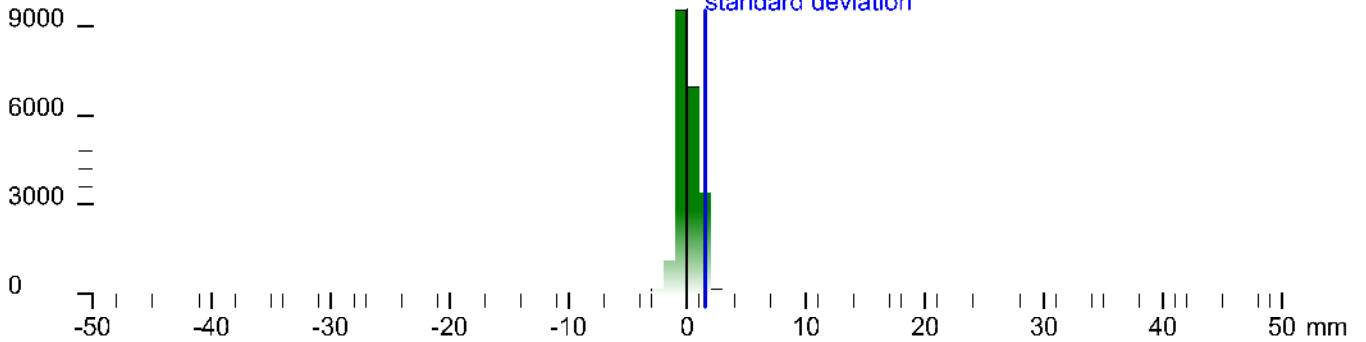
Registration matrix:

0.386309	0.922370	0.000923	5.8507 m
-0.922370	0.386308	0.001295	11.5979 m
0.000838	-0.001352	0.999999	-1.3423 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.5 mm

Deviation histogram

Points



Scan '68'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

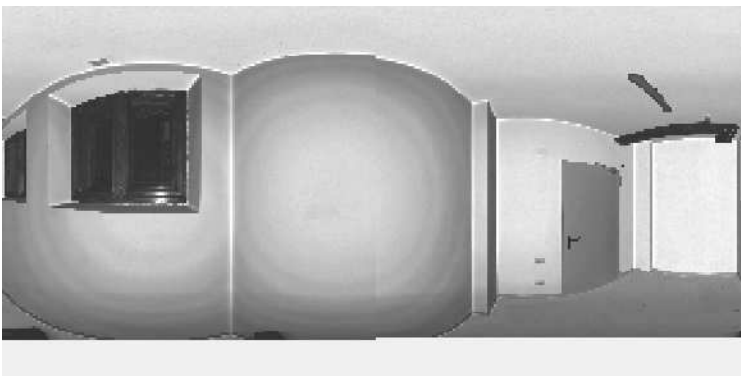
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution High, quality Normal, scan date 2023-10-27 10:00:00, scan time 00:00:00, scan status OK, scan mode Cloud to Cloud, scan type 102h, scan position 68, scan group 102h, scan registration 102h, scan registration matrix 0.386309 0.922370 0.000923 5.8507 m -0.922370 0.386308 0.001295 11.5979 m 0.000838 -0.001352 0.999999 -1.3423 m 0.000000 0.000000 0.000000 1.0000

Registration: 102h
Error matrix: 0.386309 0.922370 0.000923 5.8507 m
-0.922370 0.386308 0.001295 11.5979 m
0.000838 -0.001352 0.999999 -1.3423 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '69'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

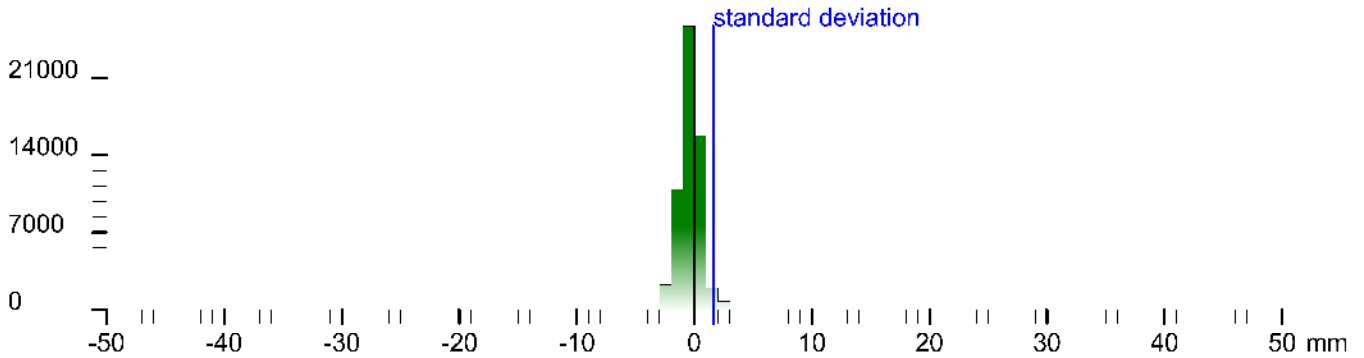
```

0.300852 -0.953671 -0.000768 4.6974 m
0.953669 0.300849 0.002376 17.4501 m
-0.002035 -0.001447 0.999997 -1.4028 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram

Points



Scan '69'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2019-08-01 10:44:00 (UTC) by [redacted] at [redacted] (IP: [redacted])

```

Registration: 1087 (no measurement transition recorded)
Error matrix: [0.17570 0.08372] m
New translation: 5.2111 m 0.2905 m -8.55945 m 0.2958 m 5.2955 m 0.0001 m
New rotation: 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
operator: [redacted]
FH data profile: (Drehschein)
CA88-CA88-0-00-1-902
CA88-CA88-0-0-22-627
CA88-CA88-1-0-0-7-627
CA88-CA88-0-0-0-1-000
    
```

Level system info: dynamic compensator available.



Scan position '7'

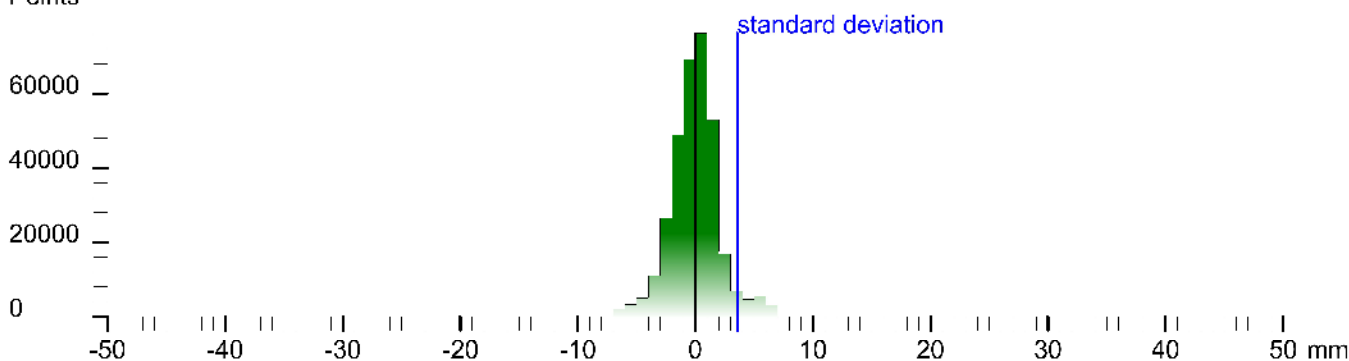
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.985041 -0.172320 -0.000172 17.8480 m  
0.172320 -0.985041 0.000102 9.9603 m  
-0.000187 0.000071 1.000000 0.3843 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:3.6 mm

Deviation histogram

Points



Scan '7'

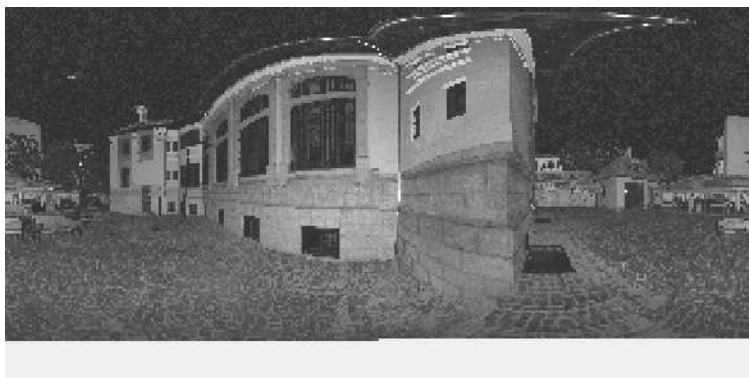
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016, scan of 101.11.10.101 (Z+F Imager 5016) - Model 5016 - Serial 5016-0100 - Firmware 9.0.3.6562-0 - Scan resolution: High - Quality: Normal - Scan date: 2019-10-10 10:10:10

```
Registration: 102h  
Base motion: 0.12422 0.00357 m  
New position: 42.3527 17.2523 7.0326 m (altitude: 72901.172590 m + 0.010 m)  
New rotation: 50.000000 155.2425 55.000000 0.000000 0.000000 15.000000  
Registration: 102h  
GPS: 49.495178 N 12.150000 E 7.000000 height: 4.4 m from 2.3 m sea level  
Scan: 0.00486 179 m 245.564895 200 m zone: 0.56  
Encoder position: (rotation)  
0.000000 0.000000 0.000000  
0.000000 0.000000 0.000000  
0.000000 0.000000 0.000000
```

Level system info: dynamic compensator available.



Scan position '70'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

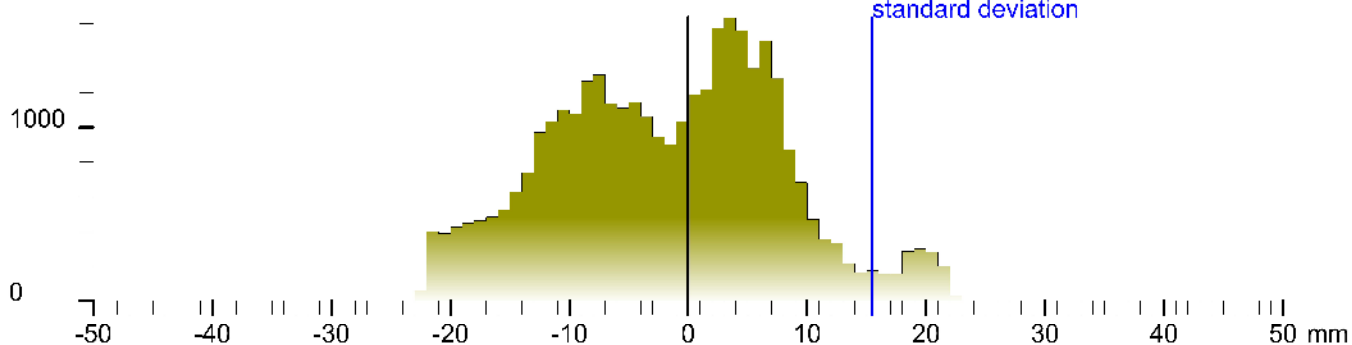
Registration matrix:

0.380631	-0.924705	0.006509	4.1763 m
0.924705	0.380662	0.004332	22.2816 m
-0.006484	0.004370	0.999969	-1.4282 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:15.5 mm

Deviation histogram

Points



Scan '70'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
----------	-------

comment	
---------	--

operator	
----------	--

Scanned with Z+F Imager 5016 on 2023-10-27 14:18:00. Scan position: 70. Scan resolution: High. Quality: Normal. Scan area: 10.0 m x 7.5 m. Scan distance: 10.0 m. Scan speed: 0.1 m/s. Scan time: 15.000 s. Scan date: 2023-10-27 14:18:00.

```
Registration: 102h
Base matrix: [0.380631 0.924705 -0.006484 4.1763]
New matrix: [0.380631 0.924705 0.006509 4.1763]
Base matrix: [0.924705 0.380662 0.004332 22.2816]
New matrix: [0.924705 0.380662 0.004332 22.2816]
Base matrix: [-0.006484 0.004370 0.999969 -1.4282]
New matrix: [-0.006484 0.004370 0.999969 -1.4282]
Base matrix: [0.000000 0.000000 0.000000 1.0000]
New matrix: [0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



Scan position '71'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

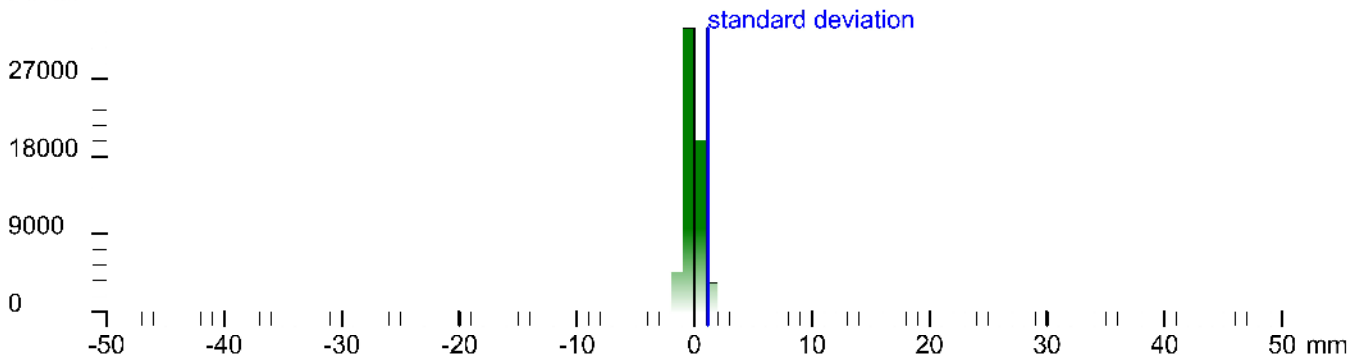
Registration matrix:

0.580510	-0.814224	0.006876	2.3767 m
0.814225	0.580540	0.003493	20.1105 m
-0.006836	0.003571	0.999970	-1.4084 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 1.1 mm

Deviation histogram

Points



Scan '71'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.004584m x 3.074184m (11.1649ft x 10.0841ft) | File size: 11.00 MB | Date: 2014-07-24 11:04:00 | Scan duration: 00:00:00.000000000 | Scan resolution: 0.250000mm | Scan quality: High | Scan mode: Normal | Scan type: 3D

Registration: 1087 | Registration method: cloud to cloud
Registration matrix: 0.580510 -0.814224 0.006876 2.3767 m
Registration standard deviation: 1.100000 mm
Registration quality: High
Registration method: cloud to cloud
Registration matrix: 0.814225 0.580540 0.003493 20.1105 m
Registration standard deviation: 1.100000 mm
Registration quality: High
Registration method: cloud to cloud
Registration matrix: -0.006836 0.003571 0.999970 -1.4084 m
Registration standard deviation: 1.100000 mm
Registration quality: High
Registration method: cloud to cloud
Registration matrix: 0.000000 0.000000 0.000000 1.000000
Registration standard deviation: 1.100000 mm
Registration quality: High

Level system info: dynamic compensator available.



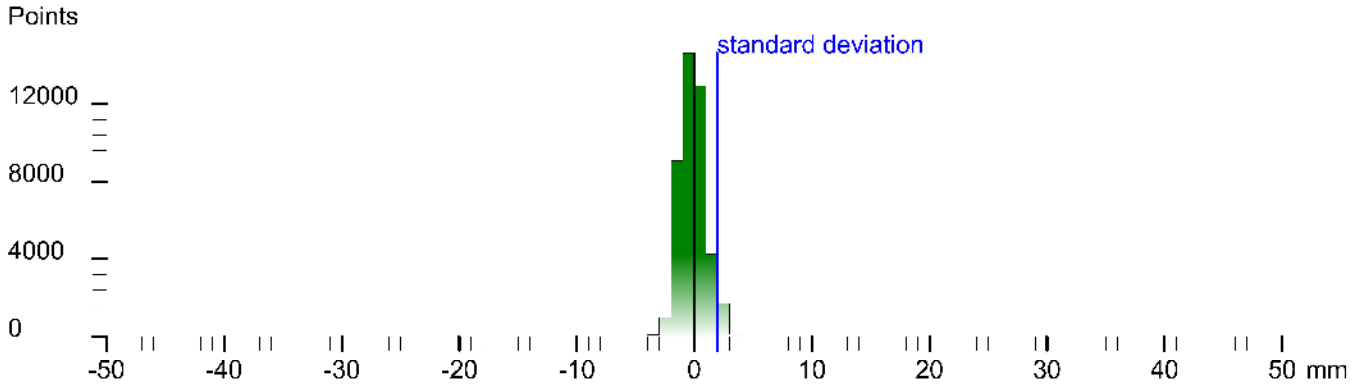
Scan position '72'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.464936 -0.885318 0.006895 0.1382 m
0.885345 -0.464927 0.002981 18.5571 m
0.000567 0.007490 0.999972 -2.6515 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.9 mm

Deviation histogram



Scan '72'

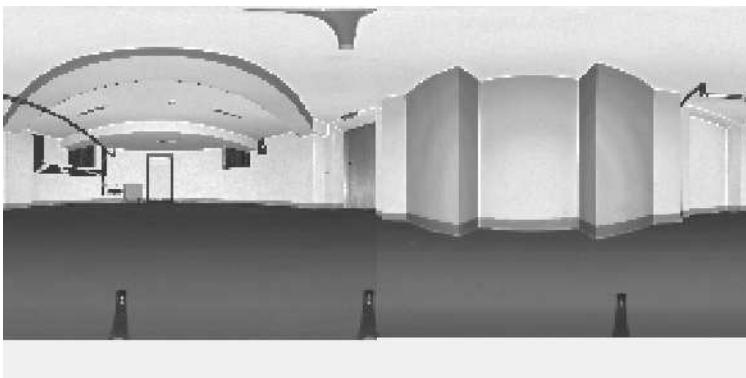
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2024-02-28 10:10:00 (UTC+01:00) by [redacted] at [redacted] with [redacted] (Z+F IMAGER 5016) in [redacted] mode. Scan resolution: High. Quality: Normal. Scan position: 72.

```
Registration: 100% (cloud to cloud)
Error matrix: [0.17518 0.07905] m
min. translation: 0.17518 m [0.17518] m
min. rotation: 0.00000 rad [0.00000] rad
min. scale: 0.99999 [0.99999]
min. shear: 0.00000 [0.00000]
min. skew: 0.00000 [0.00000]
min. translation: 0.17518 m [0.17518] m
min. rotation: 0.00000 rad [0.00000] rad
min. scale: 0.99999 [0.99999]
min. shear: 0.00000 [0.00000]
min. skew: 0.00000 [0.00000]
```

Level system info: dynamic compensator available.



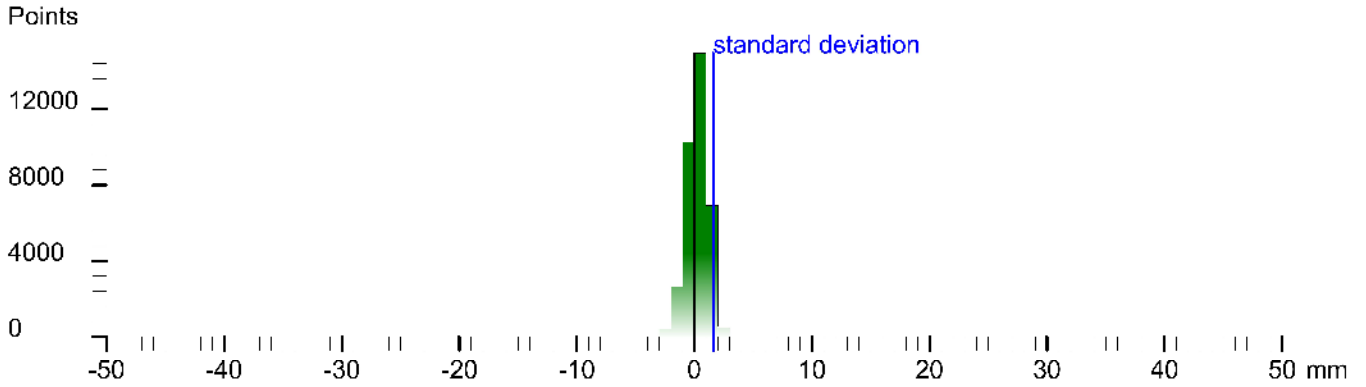
Scan position '74'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.330524 -0.943781 0.005624 -3.5430 m
0.943796 -0.330505 0.004183 22.5182 m
-0.002089 0.006690 0.999975 -2.6399 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.6 mm

Deviation histogram



Scan '74'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

```
Scanned with Z+F Imager 5016 on 2023-07-07 14:30:00. The registration matrix is: [-0.330524 -0.943781 0.005624 -3.5430; 0.943796 -0.330505 0.004183 22.5182; -0.002089 0.006690 0.999975 -2.6399; 0.000000 0.000000 0.000000 1.0000]
Scanned
point cloud: 108710
registration matrix: [-0.330524 -0.943781 0.005624 -3.5430; 0.943796 -0.330505 0.004183 22.5182; -0.002089 0.006690 0.999975 -2.6399; 0.000000 0.000000 0.000000 1.0000]
point cloud: 108710
registration matrix: [-0.330524 -0.943781 0.005624 -3.5430; 0.943796 -0.330505 0.004183 22.5182; -0.002089 0.006690 0.999975 -2.6399; 0.000000 0.000000 0.000000 1.0000]
point cloud: 108710
registration matrix: [-0.330524 -0.943781 0.005624 -3.5430; 0.943796 -0.330505 0.004183 22.5182; -0.002089 0.006690 0.999975 -2.6399; 0.000000 0.000000 0.000000 1.0000]
point cloud: 108710
registration matrix: [-0.330524 -0.943781 0.005624 -3.5430; 0.943796 -0.330505 0.004183 22.5182; -0.002089 0.006690 0.999975 -2.6399; 0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



Scan position '76'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

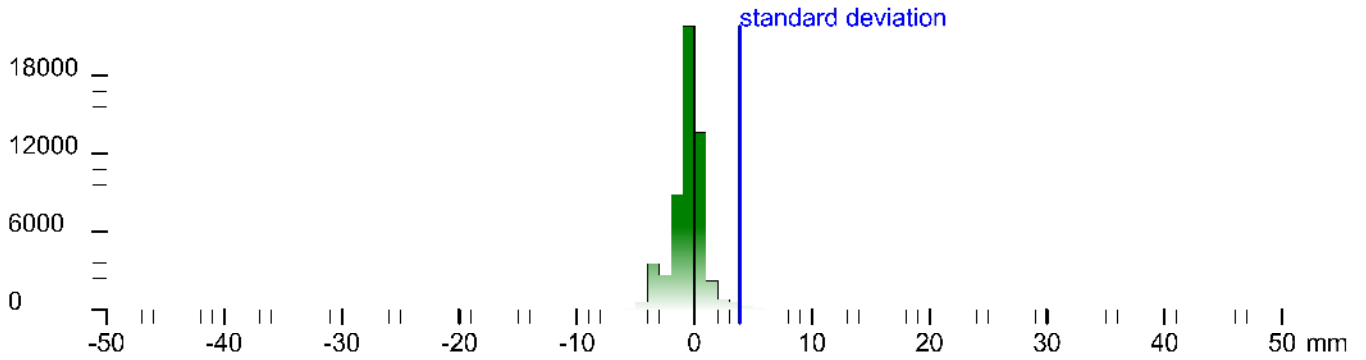
```

-0.990031  0.140854  0.000501  11.2696 m
-0.140853 -0.990031  0.000776  17.0378 m
0.000606  0.000698  1.000000  -1.3957 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation:3.9 mm

Deviation histogram

Points



Scan '76'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

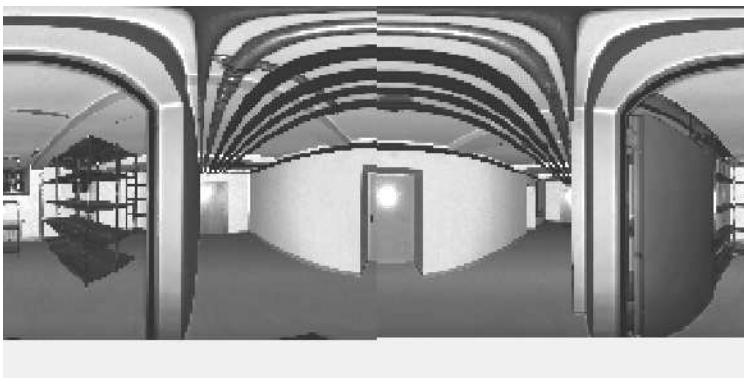
Metadata	Value
comment	
operator	

Scan date: 2017-08-10 11:24:00
 Scan time: 11:24:00
 Scan position: 76
 Scan resolution: High
 Scan quality: Normal
 Scan status: Registered with cloud to cloud
 Scan matrix:

```

-0.990031  0.140854  0.000501  11.2696 m
-0.140853 -0.990031  0.000776  17.0378 m
0.000606  0.000698  1.000000  -1.3957 m
0.000000  0.000000  0.000000  1.0000
        
```

Level system info: dynamic compensator available.



Scan position '77'

Scan position is member of group(s):

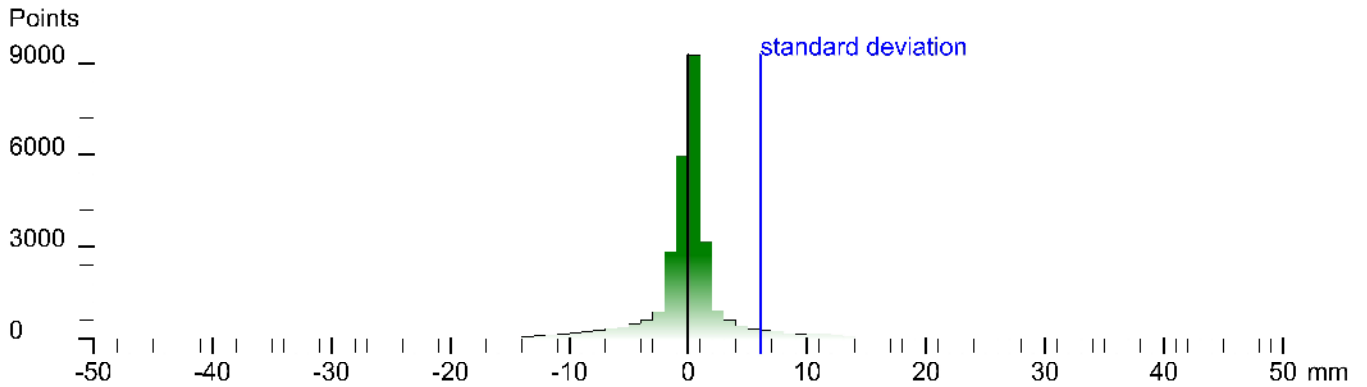
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.255403  0.966835  0.000986  10.9407 m  
-0.966835 -0.255404  0.001191  13.8819 m  
0.001403  -0.000649  0.999999  -1.4086 m  
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:6.1 mm

Deviation histogram



Scan '77'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

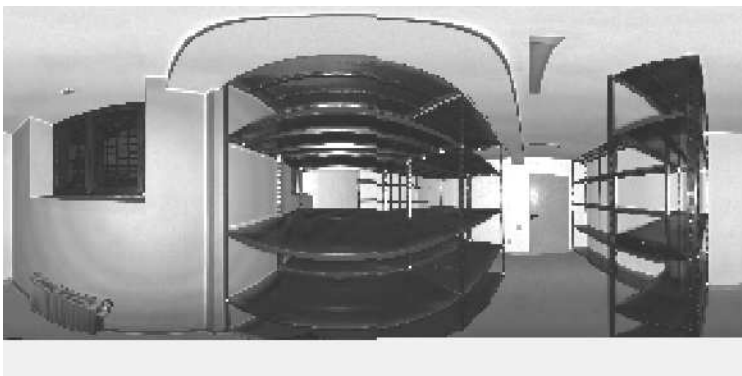
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan name '100-102h' [102h] registered with cloud to cloud' status registration '[102h] registered with cloud to cloud'

```
Registration matrix: [102h] registered with cloud to cloud'  
Registration matrix: [102h] registered with cloud to cloud'  
Registration matrix: [102h] registered with cloud to cloud'  
Registration matrix: [102h] registered with cloud to cloud'  
Registration matrix: [102h] registered with cloud to cloud'  
Registration matrix: [102h] registered with cloud to cloud'
```

Level system info: dynamic compensator available.



Scan position '78'

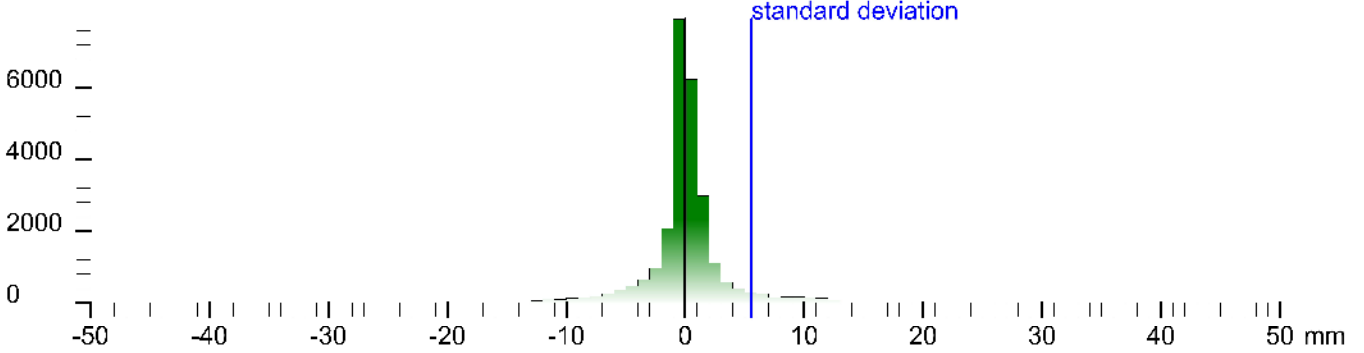
Scan position is member of group(s):
Status registration '[102h] registered with cloud to cloud'
Registration matrix:

```
-0.928171 -0.372156 0.000015 8.7461 m  
0.372156 -0.928171 0.000678 16.0929 m  
-0.000239 0.000635 1.000000 -1.4079 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 5.6 mm

Deviation histogram

Points



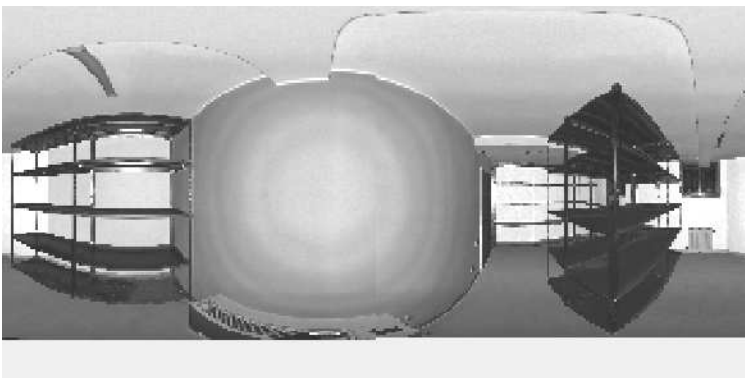
Scan '78'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```
Scanned: 2023-09-01 10:44:00  
Sensor:  
Registration: 108711  
Error matrix: 0.17447 0.0348834 m  
New rotation: 4.028171 -0.372156 0.000015  
New rotation: 0.372156 -0.928171 0.000678  
New rotation: -0.000239 0.000635 1.000000  
New rotation: 0.000000 0.000000 0.000000  
New rotation: 0.000000 0.000000 0.000000  
New rotation: 0.000000 0.000000 0.000000
```

Level system info: dynamic compensator available.



Scan position '79'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

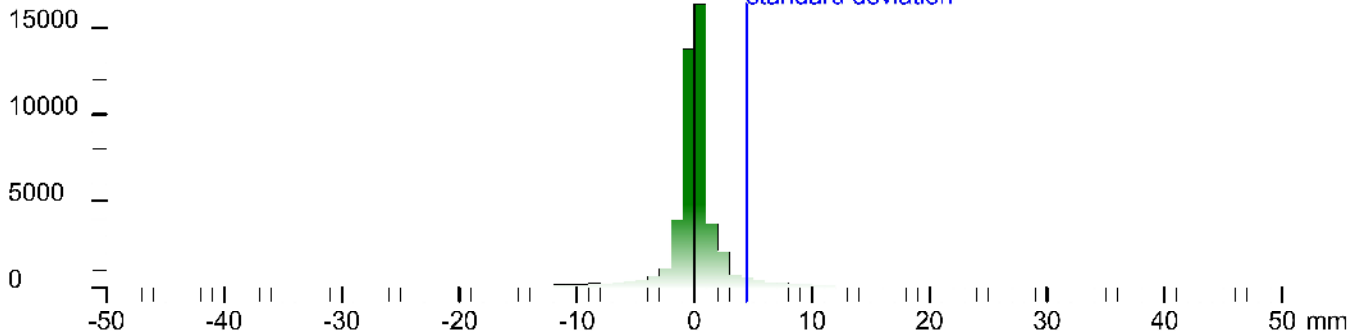
Registration matrix:

-0.942171	0.335134	0.000527	8.2507 m
-0.335134	-0.942171	0.000587	13.4825 m
0.000693	0.000377	1.000000	-1.3980 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation:4.4 mm

Deviation histogram

Points



Scan '79'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

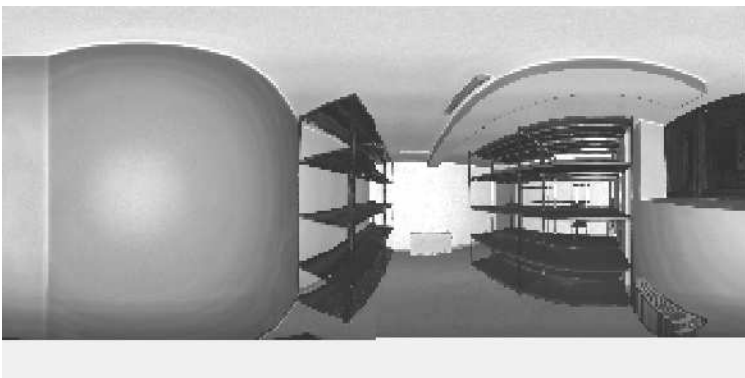
Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000 m x 3.000 m (24.000 m²) | File size: 1.7 GB | Resolution: 0.1 mm | Accuracy: 0.1 mm | Scan time: 10 min | Scan date: 2023-10-27 10:00:00

```
Registration matrix:
-0.942171 0.335134 0.000527 8.2507
-0.335134 -0.942171 0.000587 13.4825
0.000693 0.000377 1.000000 -1.3980
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '80'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

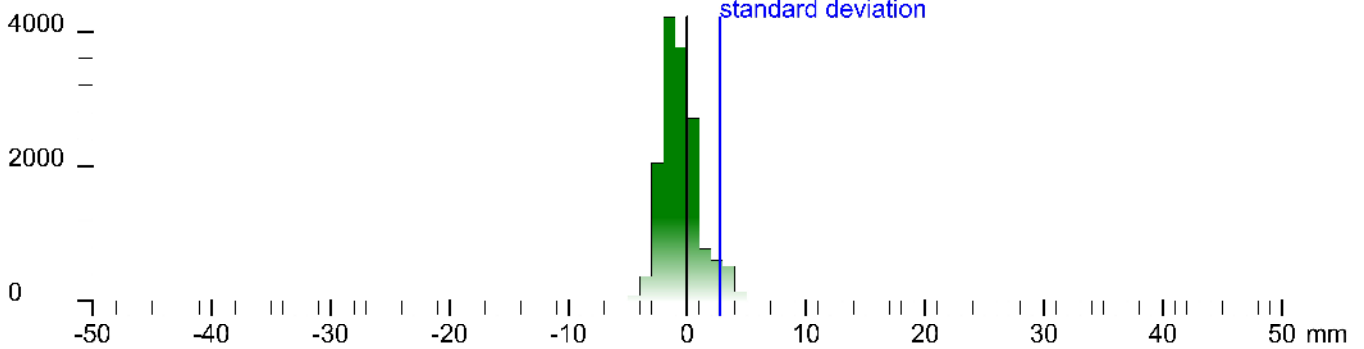
Registration matrix:

```
-0.538887 -0.842379 -0.000336 11.1249 m
 0.842378 -0.538887  0.001247 19.6906 m
-0.001232  0.000389  0.999999 -1.4129 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram

Points



Scan '80'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned on 2023-10-27 10:27:00 (UTC) by [redacted] at [redacted] (IP: [redacted])

```
Registration: 10871 (no metric transformation recorded)
Base motion: 1017309 [38.733 m]
New rotation: 4.389271 -42.899111 -84.092211 [rotation: 9.577711 6.577711 11.003111]
New rotation: 0.000000 0.000000 0.000000 [rotation: 0.000000 0.000000 0.000000]
operator: [redacted]
FH: data path: [redacted]
[redacted]
[redacted]
[redacted]
[redacted]
```

Level system info: dynamic compensator available.



Scan position '81'

Scan position is member of group(s):

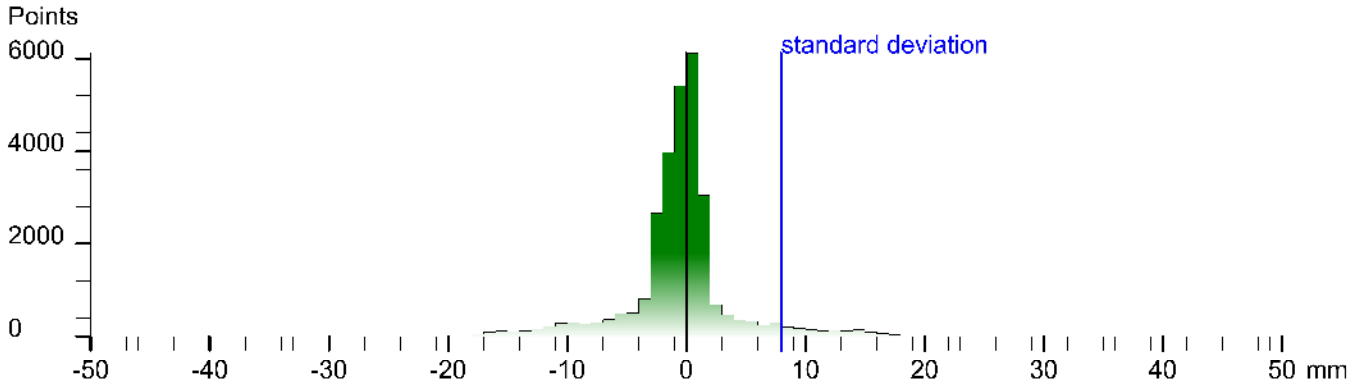
Status registration '[102h] registered with cloud to cloud'

Registration matrix:

```
-0.313464 -0.949601 0.000102 10.5367 m  
0.949600 -0.313464 0.001439 21.9262 m  
-0.001334 0.000548 0.999999 -1.4168 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:8.0 mm

Deviation histogram



Scan '81'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

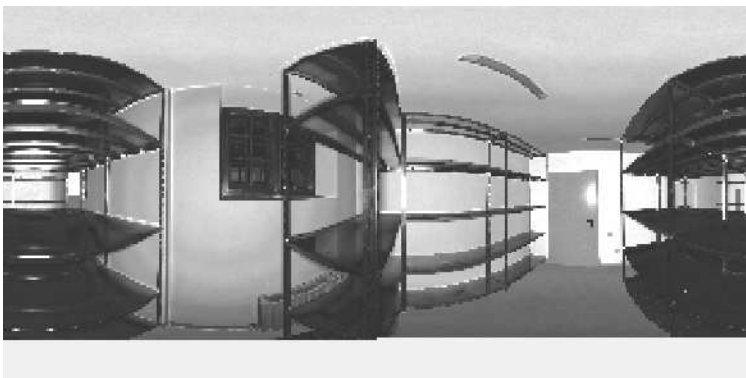
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned: 2023-09-08 10:24:00 (UTC) [102h] registered with cloud to cloud

```
Registration: 102h [102h] registered with cloud to cloud  
Error matrix: [0.17236 0.000102 10.5367 m  
0.949600 0.001439 21.9262 m  
-0.001334 0.000548 0.999999 -1.4168 m  
0.000000 0.000000 0.000000 1.0000]
```

Level system info: dynamic compensator available.



Scan position '82'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

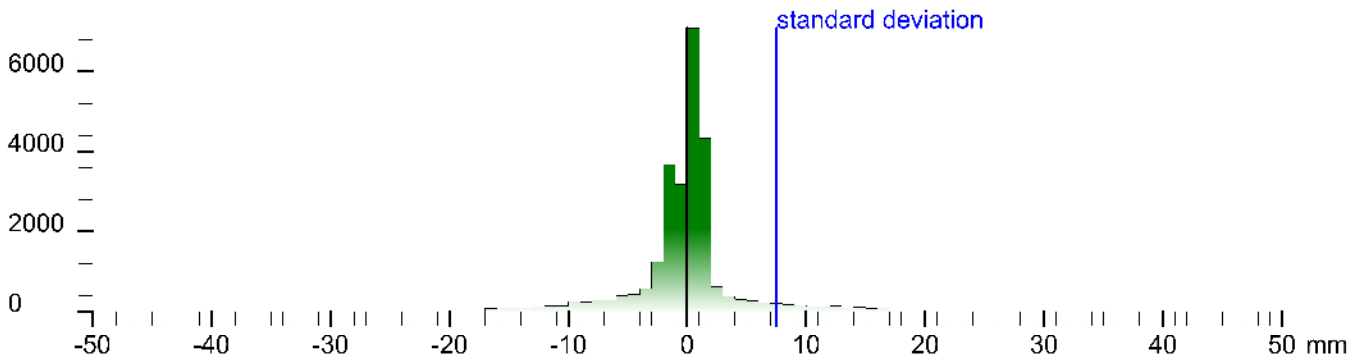
Registration matrix:

```
-0.998547  -0.053912  0.000148  8.5682 m
0.053912  -0.998546  0.000932  19.8482 m
0.000097  0.000938  1.000000  -1.4121 m
0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation: 7.5 mm

Deviation histogram

Points



Scan '82'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned area: 4.000000 m x 2.000000 m x 0.000000 m (0.000000 m x 0.000000 m x 0.000000 m) (0.000000 m x 0.000000 m x 0.000000 m) (0.000000 m x 0.000000 m x 0.000000 m)

Registration: 10871 (parameter transition recorded)

Base station: 1017221 (ECEF: 38.000 m)

Base station: 42.1777 m x 2.7502 m x 38.2151 m (accuracy: 7.7097 m / 1197 m / 0.0190 m)

Base station: 3.0000 m x 0.0000 m x 20225226 m (accuracy: 0.0000 m / 0.0000 m / 15.0000 m)

operator: operator

PH: 0.000000 m x 0.000000 m

PH: 0.000000 m x 0.000000 m

PH: 0.000000 m x 0.000000 m

PH: 0.000000 m x 0.000000 m

Level system info: dynamic compensator available.



Scan position '83'

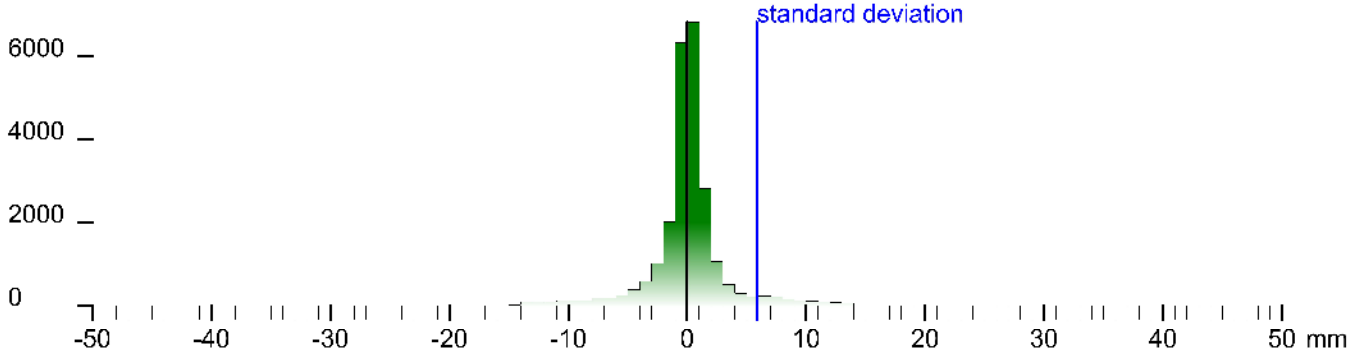
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```
-0.315170 -0.949034 -0.002091 7.1622 m
0.949034 -0.315173 0.001187 20.2244 m
-0.001786 -0.001610 0.999997 -1.4163 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation:5.9 mm

Deviation histogram

Points



Scan '83'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016 on 2014-08-08 10:00:00. The scan was performed with the Z+F Imager 5016. The scan was performed with the Z+F Imager 5016. The scan was performed with the Z+F Imager 5016.

```
Registration: 1081 m (max) registration recorded
Error matrix: [0.17226 0.00000 0.00000]
min: 0.00000 m    1.12255 m    -0.00000 m    0.00000 m    0.00000 m    0.00000 m
max: 0.00000 m    0.00000 m    0.00000 m    0.00000 m    0.00000 m    0.00000 m
operator:
FH: data provider: (unknown)
0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000
```

Level system info: dynamic compensator available.



Scan position '84'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

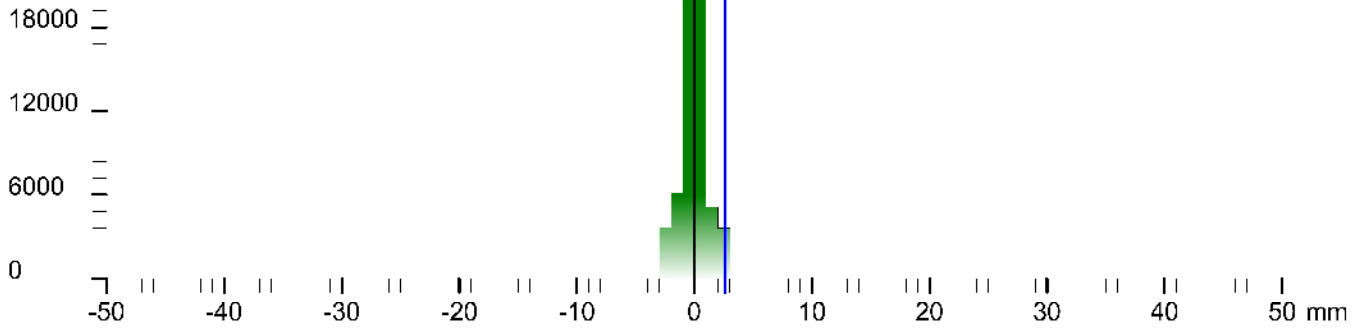
Registration matrix:

0.992279	0.124023	0.001359	13.7140 m
-0.124025	0.992279	0.001270	17.0646 m
-0.001191	-0.001429	0.999998	-1.3963 m
0.000000	0.000000	0.000000	1.0000

Result registration cloud to cloud standard deviation: 2.7 mm

Deviation histogram

Points



Scan '84'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan area: 4.000000m x 10.000000m (4.000000m x 10.000000m) [102h] registered with cloud to cloud

Registration matrix: 0.992279 0.124023 0.001359 13.7140 m
-0.124025 0.992279 0.001270 17.0646 m
-0.001191 -0.001429 0.999998 -1.3963 m
0.000000 0.000000 0.000000 1.0000

Level system info: dynamic compensator available.



Scan position '90'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

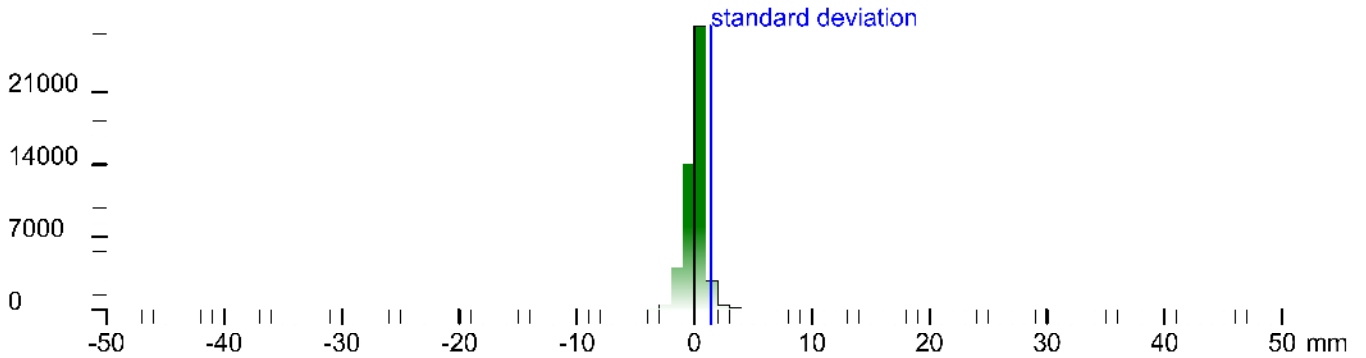
Registration matrix:

```
0.941343 -0.337455 -0.000291 17.5498 m
0.337454 0.941341 -0.001855 22.4834 m
0.000899 0.001648 0.999998 -1.3941 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.4 mm

Deviation histogram

Points



Scan '90'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

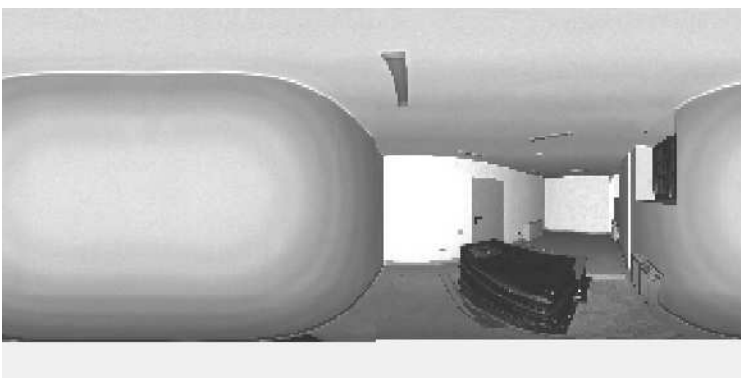
Scan resolution 'High' quality 'Normal'

Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution High, quality Normal, scan position 90, registration cloud to cloud, standard deviation 1.4 mm

```
Registration: 102h [102h] registered with cloud to cloud
Registration matrix:
0.941343 -0.337455 -0.000291 17.5498 m
0.337454 0.941341 -0.001855 22.4834 m
0.000899 0.001648 0.999998 -1.3941 m
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '91'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

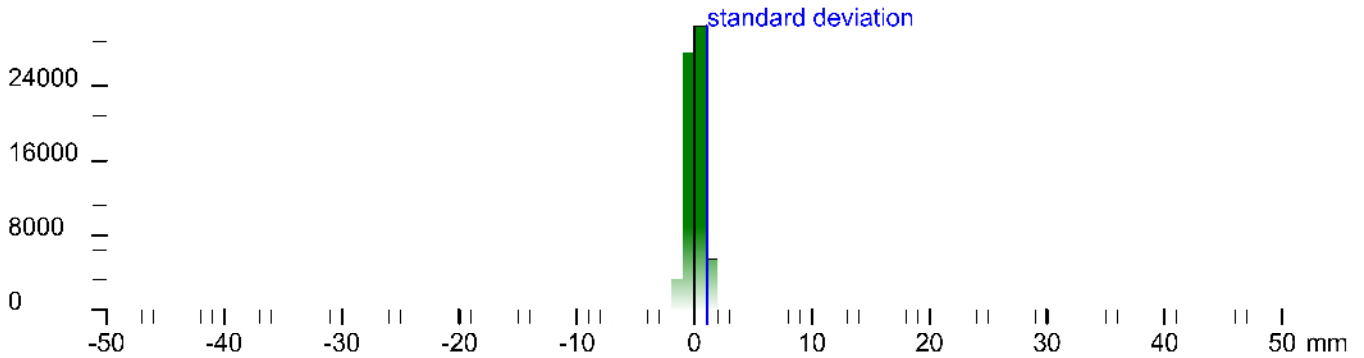
Registration matrix:

```
0.924509 0.381162 0.000387 17.6760 m  
-0.381161 0.924508 -0.002003 20.3569 m  
-0.001121 0.001704 0.999998 -1.3976 m  
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 1.1 mm

Deviation histogram

Points



Scan '91'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

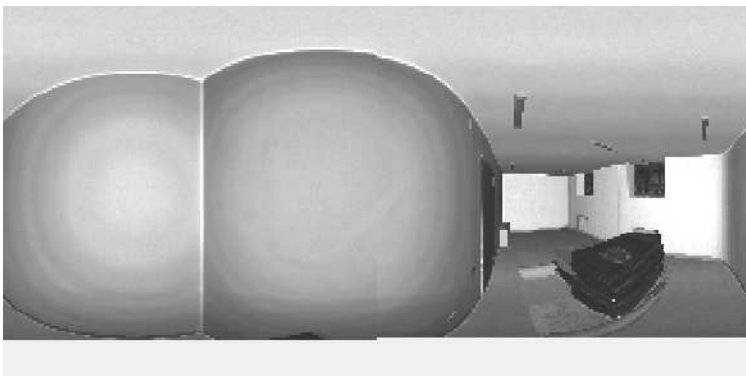
Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

Scanned with Z+F IMAGER 5016, serial number 5016-0100, firmware 9.0.3.6562-0, scan resolution High, quality Normal, scan date 2024-10-24 12:04:12, scan time 00:01:00

```
Registration matrix:  
0.924509 0.381162 0.000387 17.6760 m  
-0.381161 0.924508 -0.002003 20.3569 m  
-0.001121 0.001704 0.999998 -1.3976 m  
0.000000 0.000000 0.000000 1.0000  
Registration matrix:  
0.924509 0.381162 0.000387 17.6760 m  
-0.381161 0.924508 -0.002003 20.3569 m  
-0.001121 0.001704 0.999998 -1.3976 m  
0.000000 0.000000 0.000000 1.0000
```

Level system info: dynamic compensator available.



Scan position '92'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

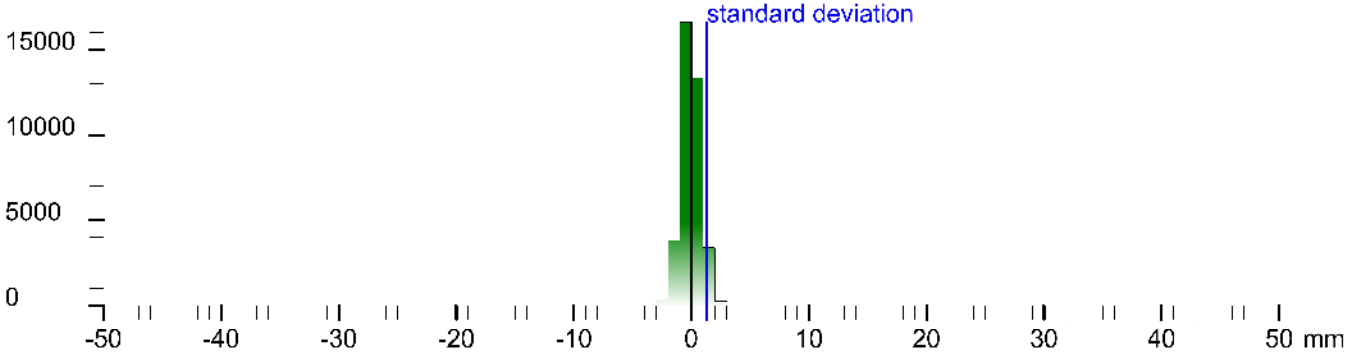
```

0.984540 -0.175165 0.000799 18.3941 m
0.175164 0.984540 0.000429 17.8803 m
-0.000862 -0.000283 1.000000 -1.4036 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '92'

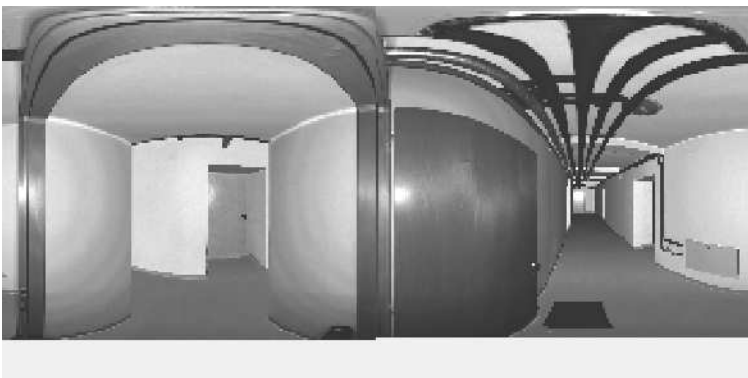
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scan position: 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
 Sensor:
 Resolution: 1080 x 1080 pixels (transmission recording)
 Bare metal: 0.16678 mm (-30.166 mm)
 Res. (horizontal): 428-471 x 428-471 m (-81.288 m) accuracy: 9.8e-5 m 8.8e-5 m 0.0001 m
 Res. (vertical): 500.0-500.0 mm (25.588 m) accuracy: 0.0000000000 0.0000000000 0.0000000000
 Registration:
 PHOTONIC PERIPHERY (Projection)
 0.066 0.489 0.000 1.028
 0.489 0.489 0.000 1.028
 0.000 0.489 0.000 1.028
 0.000 0.000 0.000 1.000

Level system info: dynamic compensator available.



Scan position '93'

Scan position is member of group(s):

Status registration '[10123h] preregistered with cloud to cloud, manually'

Registration matrix:

```

0.296525 -0.955026 -0.000385 20.2855 m
0.955021 0.296522 0.003534 17.4502 m
-0.003261 -0.001415 0.999994 -1.4102 m
0.000000 0.000000 0.000000 1.0000
    
```

Scan '93'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

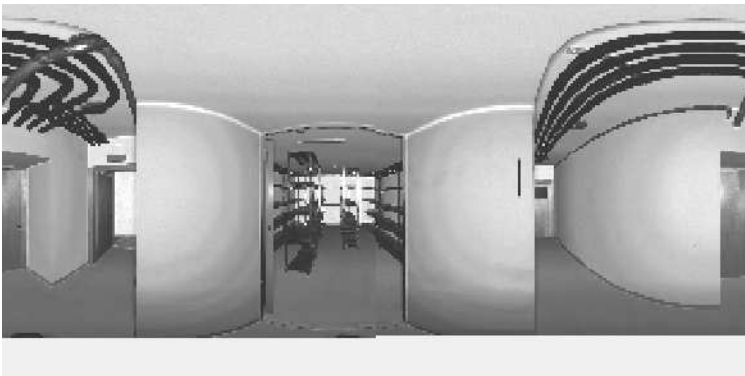
Metadata **Value**
comment
operator

Scanned with Z+F Imager 5016. Scan position is member of group(s): [10123h] preregistered with cloud to cloud, manually'. Status registration '[10123h] preregistered with cloud to cloud, manually'. Registration matrix:

```

0.296525 -0.955026 -0.000385 20.2855 m
0.955021 0.296522 0.003534 17.4502 m
-0.003261 -0.001415 0.999994 -1.4102 m
0.000000 0.000000 0.000000 1.0000
    
```

Level system info: dynamic compensator available.



Scan position '94'

Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

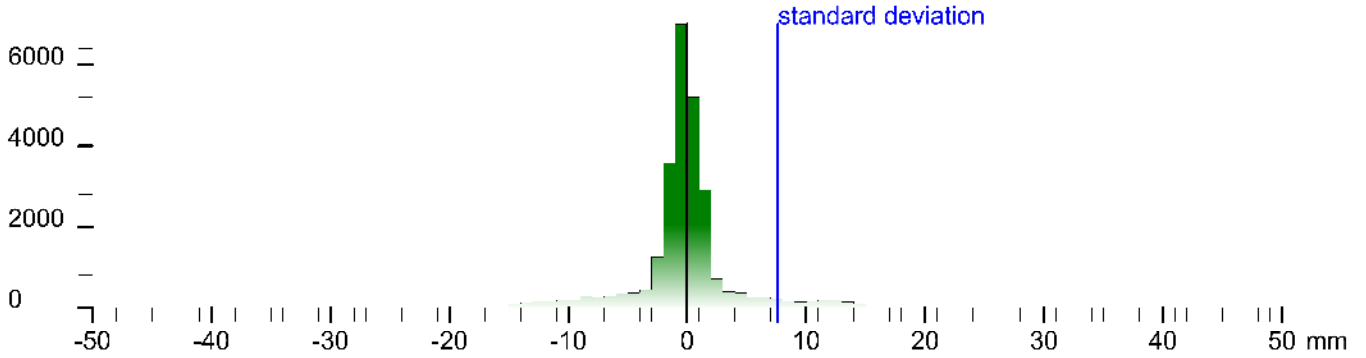
```

0.957914  0.287058  -0.000718  22.6684 m
-0.287055  0.957912  0.002393  16.7550 m
0.001375  -0.002086  0.999997  -1.4110 m
0.000000  0.000000  0.000000  1.0000
    
```

Result registration cloud to cloud standard deviation: 7.6 mm

Deviation histogram

Points



Scan '94'

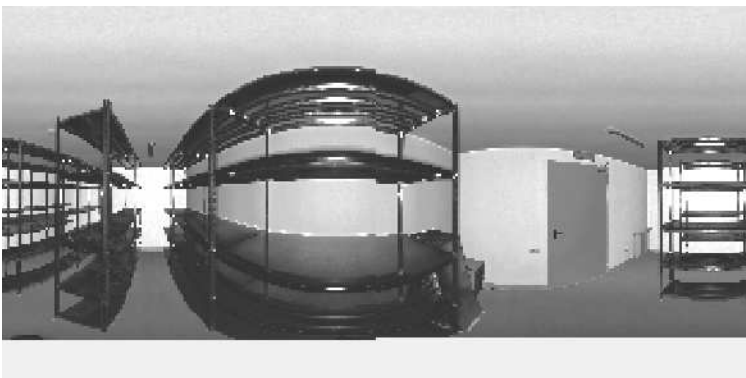
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scanned: 2017-08-10 12:41:00 (UTC) on: 2017-08-10 12:41:00 (UTC)
Scanned: 108110 (parameter transition recorded)
Base matrix: [21679] [37 -29 435] m
rev: 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
rev: 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
operator:
FH: 0.0000000 0.0000000
0.0000000 0.0000000 0.0000000
0.0000000 0.0000000 0.0000000
0.0000000 0.0000000 0.0000000
    
```

Level system info: dynamic compensator available.



Scan position '95'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

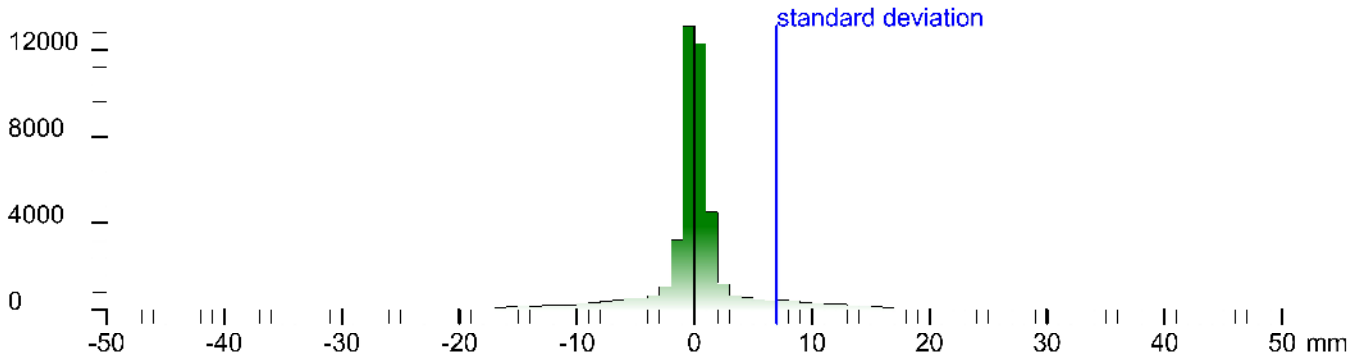
Registration matrix:

```
0.405056 -0.914292 -0.001579 21.6113 m
0.914290 0.405051 0.002879 18.5316 m
-0.001993 -0.002610 0.999995 -1.4144 m
0.000000 0.000000 0.000000 1.0000
```

Result registration cloud to cloud standard deviation: 7.0 mm

Deviation histogram

Points



Scan '95'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

Scanned: 2023-09-28 10:24:00 (UTC+02:00) [102h] registered with cloud to cloud. Registration matrix: 0.405056 -0.914292 -0.001579 21.6113 m; 0.914290 0.405051 0.002879 18.5316 m; -0.001993 -0.002610 0.999995 -1.4144 m; 0.000000 0.000000 0.000000 1.0000

```
Registration: 102h [102h] registered with cloud to cloud
Error matrix: 0.405056 -0.914292 -0.001579 21.6113 m
New registration: 1.74277 -0.22292 -1.42131 2.11336 m; 5.9828 m; 5.9828 m; 1.1001 m
New registration: 5.9828 m; 5.9828 m; 1.1001 m; 1.1001 m; 1.1001 m; 1.1001 m; 1.1001 m
Operator: [102h]
FH: [102h]
1.270 -0.829 0.000 8.804
1.270 -0.829 0.000 12.259
1.270 -0.829 0.000 15.714
1.270 -0.829 0.000 19.169
```

Level system info: dynamic compensator available.



Scan position '97'

Scan position is member of group(s):

Status registration '[102h] registered with cloud to cloud'

Registration matrix:

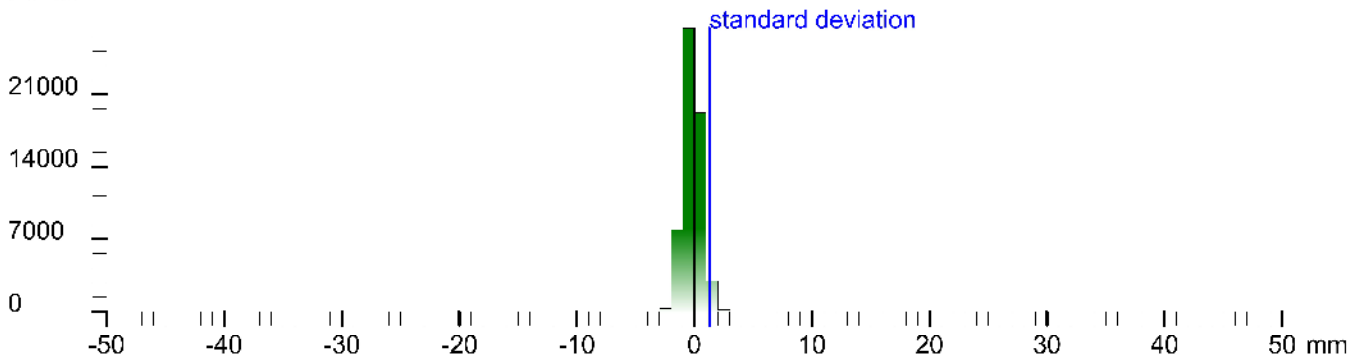
```

0.971208  0.238237  0.000368  23.9617 m
-0.238237 0.971201  0.003584  14.4525 m
0.000497 -0.003569  0.999994  -1.4039 m
0.000000  0.000000  0.000000  1.0000
  
```

Result registration cloud to cloud standard deviation: 1.3 mm

Deviation histogram

Points



Scan '97'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata	Value
comment	
operator	

```

Scan position '97' registration with cloud to cloud standard deviation: 1.3 mm
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
Scan resolution 'High' quality 'Normal'
comment
operator
  
```

Level system info: dynamic compensator available.



Scan position '98'

Scan position is member of group(s):

Status registration "[102h] registered with cloud to cloud"

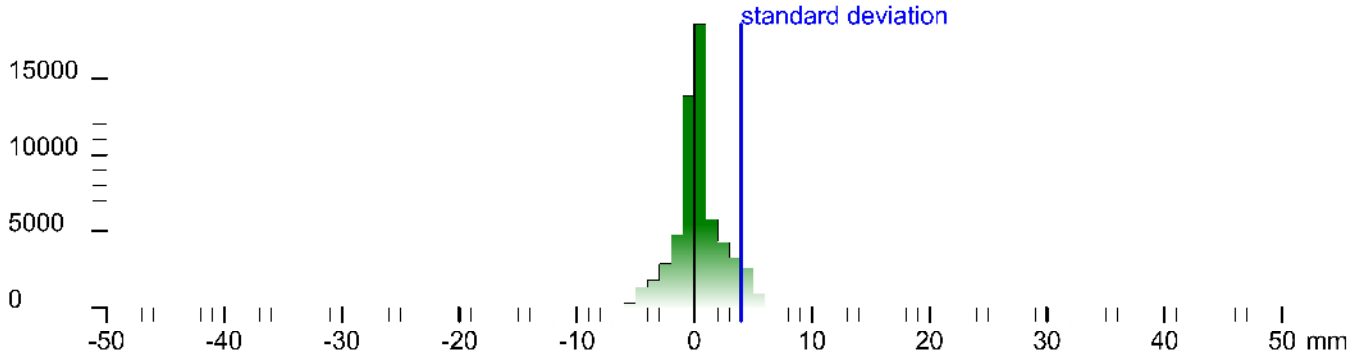
Registration matrix:

```
-0.713391  0.700768  0.000461  21.8619 m
-0.700764 -0.713390  0.002278  12.3225 m
 0.001925  0.001302  0.999997 -1.4003 m
 0.000000  0.000000  0.000000  1.0000
```

Result registration cloud to cloud standard deviation:4.0 mm

Deviation histogram

Points



Scan '98'

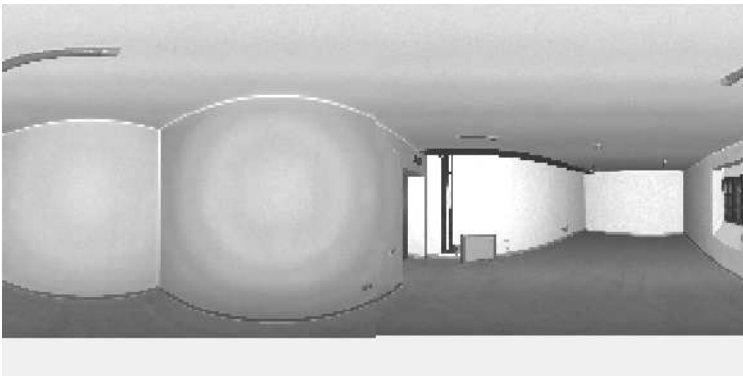
Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0

Scan resolution 'High' quality 'Normal'

Metadata Value
comment
operator

Scanned at 2023-09-20 10:00:00.000 [UTC] by [Operator] using [Software] [Version] on [Platform] [OS] [Architecture]
Sensor
position: 1081 (reference transition record)
Base station: 216518 East 27.9634 m
raw data location: 149568 / -42191 / -251743 / -50000 / 5.8410 m / 5.9439 m / 0.0001 /
raw data size: 500.000.000 / 5.41615 sec / 1.00000 / 0.00000 / 15.0000 /
operator: [Operator]
File info per file: 10 frames
1.297.0.217.0.00.0.107
1.217.42297.0.0.0.11.107
1.100.02001.0.0.0.48.0.15
1.000.02000.0.0.0.0.000

Level system info: dynamic compensator available.



Scan position '99'

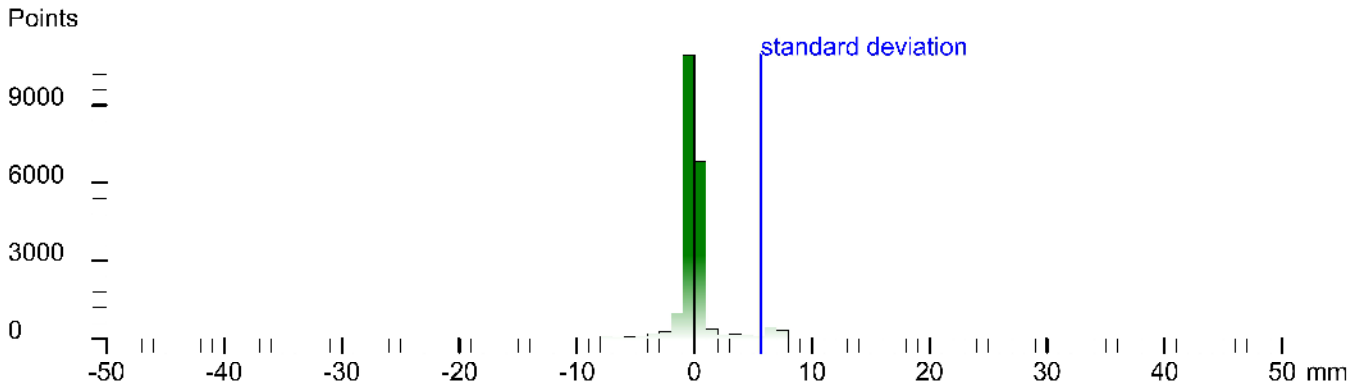
Scan position is member of group(s):
 Status registration '[102h] registered with cloud to cloud'
 Registration matrix:

```

0.184326 -0.982866 0.000191 19.9549 m
0.982862 0.184326 0.002603 13.3098 m
-0.002593 -0.000292 0.999997 -1.3986 m
0.000000 0.000000 0.000000 1.0000
    
```

Result registration cloud to cloud standard deviation: 5.6 mm

Deviation histogram



Scan '99'

Scanner 'Z+F IMAGER 5016' serial number '5016-0100' Firmware 9.0.3.6562-0
 Scan resolution 'High' quality 'Normal'

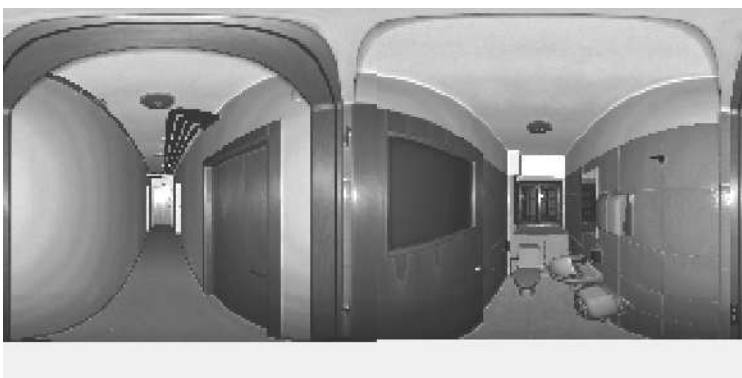
Metadata **Value**
comment
operator

Scanned on: 2023-09-08 10:24:10 (UTC) by: [redacted] Location: [redacted] Project: [redacted] Scan: [redacted] Station: [redacted]

```

Registration: 100% (no transition recorded)
Error matrix: 0.184326 0.000191 19.9549 m
0.982862 0.184326 0.002603 13.3098 m
-0.002593 -0.000292 0.999997 -1.3986 m
0.000000 0.000000 0.000000 1.000000
Registration: 100%
EAGS: 0.259 0.000 -1.398
LARS: 0.458 0.000 13.459
LUDS: 0.000 0.000 436.619
LUDS: 0.000 0.000 1.000
    
```

Level system info: dynamic compensator available.



Labels

No labels stored in project

Links

No links stored in project

Summary

Number of scans: **279** used in **279** scan positions

Point clouds: **0**

Scans with color: **0** mapped **0**

Scans with thermal data: **0** mapped **0**

Scans with errors:**0** warnings:**0** messages:**0**

Missed or corrupted scans files: **0**

Scanners used in the project: **5016-0100**

0 known targets used

0 targets used in **0** of **279** scan positions

First scan taken at: **11.7.2022 14:27::35** last scan at: **3.8.2022 16:45:45**

Duration: **23d 2h 18min 10sec**