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Report

1 Introduction

Report is designed to report (show) all deviations of objects (depending on the mean or reference values). The project has to be "preregistered", because Report will use the coordinates of the objects to calculate correspondences.

Features:

- shows correspondences of objects
- delete objects
- turn correspondence flag on or off
- shows object quality
- shows point grid size on objects
- shows scan quality and resolution
- shows number of points used for object creation by SCENE

The screenshot shows the 'scantaxi Report' window. The main table lists objects with columns: Internal name, SCENE name, Scan, Type, x [m], y [m], z [m], dx [mm], dy [mm], dz [mm], dR [mm], D2S [m], Pts [#], PS [mm], and Res. The table contains data for various objects like CircularFlatTarget1 through CircularFlatTarget5, Sphere, and Sphere2 through Sphere5. The sidebar on the right has buttons for 'options' and 'about', and a 'Views' section with radio buttons for 'Scannerposition', 'Averaged objects', 'All objects', 'Fix references', 'Object assignment', 'Using names', and 'Using coordinates'. Below the sidebar is a logo and buttons for 'Assign' and 'Close'.

| Internal name | SCENE name | Scan | Type | x [m] | y [m] | z [m] | dx [mm] | dy [mm] | dz [mm] | dR [mm] | D2S [m] | Pts [#] | PS [mm] | Res |
|-----------------------|---------------------|---------------|-------------------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
| ✓ CircularFlatTarget1 | | | _mean_ | -0.7187 | -1.7989 | -0.2154 | | | | | | | | |
| ✓ CircularFlatTarget1 | CircularFlatTarget1 | KW_Mue_SET000 | CircularFlatPoint | -0.7184 | -1.7985 | -0.2139 | -0.3 | -0.3 | -1.5 | 1.6 | 1.9485 | 1961 | 1.2 | 1/4 |
| ✓ CircularFlatTarget1 | CircularFlatTarget1 | KW_Mue_SET001 | Point3d | -0.7190 | -1.7992 | -0.2170 | 0.3 | 0.3 | 1.5 | 1.6 | 4.7911 | 9 | 1.4 | 1/2 |
| ✓ CircularFlatTarget2 | | | _mean_ | 1.8656 | 2.6047 | -0.7478 | | | | | | | | |
| ✓ CircularFlatTarget2 | CircularFlatTarget2 | KW_Mue_SET000 | CircularFlatPoint | 1.8657 | 2.6049 | -0.7480 | -0.1 | -0.2 | 0.2 | 0.3 | 3.2902 | 1181 | 1.9 | 1/4 |
| ✓ CircularFlatTarget2 | CircularFlatTarget2 | KW_Mue_SET001 | CircularFlatPoint | 1.8655 | 2.6045 | -0.7476 | 0.1 | 0.2 | -0.2 | 0.3 | 5.0355 | 2356 | 1.5 | 1/2 |
| ✓ CircularFlatTarget3 | | | _mean_ | 4.8364 | 2.9734 | -0.2998 | | | | | | | | |
| ✓ CircularFlatTarget3 | CircularFlatTarget3 | KW_Mue_SET000 | CircularFlatPoint | 4.8364 | 2.9734 | -0.2998 | | | | | 5.6853 | 436 | 3.4 | 1/4 |
| ✓ CircularFlatTarget4 | | | _mean_ | 4.9397 | 2.7692 | 0.2405 | | | | | | | | |
| ✓ CircularFlatTarget4 | CircularFlatTarget4 | KW_Mue_SET000 | CircularFlatPoint | 4.9393 | 2.7692 | 0.2401 | 0.4 | -0.1 | 0.4 | 0.6 | 5.6677 | 290 | 3.4 | 1/4 |
| ✓ CircularFlatTarget4 | CircularFlatTarget4 | KW_Mue_SET001 | CircularFlatPoint | 4.9401 | 2.7691 | 0.2409 | -0.4 | 0.1 | -0.4 | 0.6 | 4.7164 | 2845 | 1.4 | 1/2 |
| ✓ CircularFlatTarget5 | | | _mean_ | 1.5744 | 7.5923 | 0.3924 | | | | | | | | |
| ✓ CircularFlatTarget5 | CircularFlatTarget5 | KW_Mue_SET000 | CircularFlatPoint | 1.5744 | 7.5923 | 0.3924 | | | | | 7.7638 | 242 | 4.6 | 1/4 |
| ✓ Sphere | | | _mean_ | 6.3452 | -1.4621 | -1.0632 | | | | | | | | |
| ✓ Sphere | Sphere | KW_Mue_SET000 | Sphere | 6.3443 | -1.4640 | -1.0633 | 0.9 | 1.9 | 0.1 | 2.1 | 6.5973 | 902 | 3.9 | 1/4 |
| ✓ Sphere | Sphere | KW_Mue_SET001 | Sphere | 6.3462 | -1.4600 | -1.0657 | -1.0 | -2.1 | 2.5 | 3.4 | 2.5546 | 17635 | 0.7 | 1/2 |
| ✓ Sphere | Sphere | KW_Mue_SET002 | Sphere | 6.3441 | -1.4636 | -1.0577 | 1.1 | 1.5 | -5.5 | 5.8 | 8.7580 | 352 | 5.2 | 1/4 |
| ✓ Sphere | Sphere | KW_Mue_SET003 | Sphere | 6.3454 | -1.4628 | -1.0611 | -0.2 | 0.7 | -2.1 | 2.2 | 12.8041 | 201 | 7.6 | 1/4 |
| ✓ Sphere | Sphere | KW_Mue_SET004 | Sphere | 6.3460 | -1.4607 | -1.0647 | -0.8 | -1.4 | 1.5 | 2.1 | 11.2729 | 271 | 6.7 | 1/4 |
| ✓ Sphere | Sphere | KW_Mue_SET006 | Sphere | 6.3453 | -1.4614 | -1.0668 | -0.1 | -0.7 | 3.6 | 3.7 | 8.3753 | 490 | 5.0 | 1/4 |
| ✓ Sphere2 | | | _mean_ | 2.9279 | 5.9695 | -1.4387 | | | | | | | | |
| ✓ Sphere2 | Sphere2 | KW_Mue_SET000 | Sphere | 2.9277 | 5.9717 | -1.4422 | 0.2 | -2.2 | 3.4 | 4.0 | 6.8053 | 782 | 4.0 | 1/4 |
| ✓ Sphere2 | Sphere2 | KW_Mue_SET001 | Sphere | 2.9276 | 5.9725 | -1.4399 | 0.3 | -3.0 | 1.1 | 3.2 | 8.0474 | 2372 | 2.4 | 1/2 |
| ✓ Sphere2 | Sphere2 | KW_Mue_SET003 | Sphere | 2.9277 | 5.9677 | -1.4425 | 0.2 | 1.8 | 3.7 | 4.1 | 5.6150 | 1104 | 3.3 | 1/4 |
| ✓ Sphere2 | Sphere2 | KW_Mue_SET004 | Sphere | 2.9288 | 5.9689 | -1.4370 | -0.9 | 0.6 | -1.8 | 2.0 | 3.3798 | 3363 | 2.0 | 1/4 |
| ✓ Sphere2 | Sphere2 | KW_Mue_SET005 | Sphere | 2.9277 | 5.9667 | -1.4323 | 0.2 | 2.8 | -6.5 | 7.1 | 3.8698 | 2631 | 2.3 | 1/4 |
| ✓ Sphere3 | | | _mean_ | 29.9557 | -21.0904 | -0.8084 | | | | | | | | |
| ✓ Sphere3 | Sphere3 | KW_Mue_SET001 | Sphere | 29.9557 | -21.0904 | -0.8084 | | | | | 32.2607 | 117 | 9.6 | 1/2 |
| ✓ Sphere4 | | | _mean_ | 45.2669 | -33.0586 | -1.9641 | | | | | | | | |
| ✓ Sphere4 | Sphere4 | KW_Mue_SET001 | Sphere | 45.2669 | -33.0586 | -1.9641 | | | | | 51.7182 | 23 | 15.4 | 1/2 |
| ✓ Sphere5 | | | _mean_ | 17.0087 | -50.8926 | 13.2564 | | | | | | | | |
| ✓ Sphere5 | Sphere5 | KW_Mue_SET001 | Sphere | 17.0087 | -50.8926 | 13.2564 | | | | | 53.4123 | 20 | 15.8 | 1/2 |

Figure 1: main window

Report

2 Installation

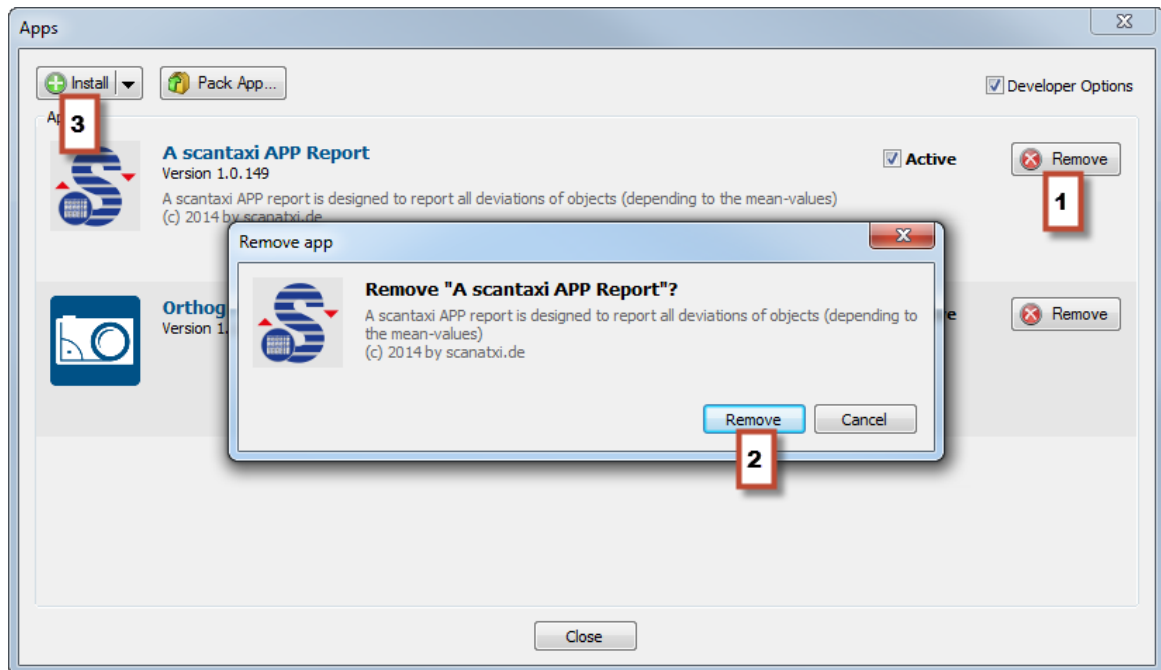


Figure 2: SCENE App Dialog

As part of the installation procedure for the new version, the old version must be removed (1, 2). Following this, Report can be installed via App Manager (3), drag and drop or by double clicking on the app file in the Explorer.

scantaxi software: <http://www.scantaxi.de/software.html>

Latest version: <http://www.scantaxi.de/software/report.html>

Report

3 Licensing

3.1 License models

Report is available as:

3.1.1 Full license

- Report can be used without any limitation
- a license can be purchased in the FARO 3D App Center (<http://www.faro.com/faro-3d-app-center>)
- See chapter 4 for activation process

3.1.2 Demo (time trial)

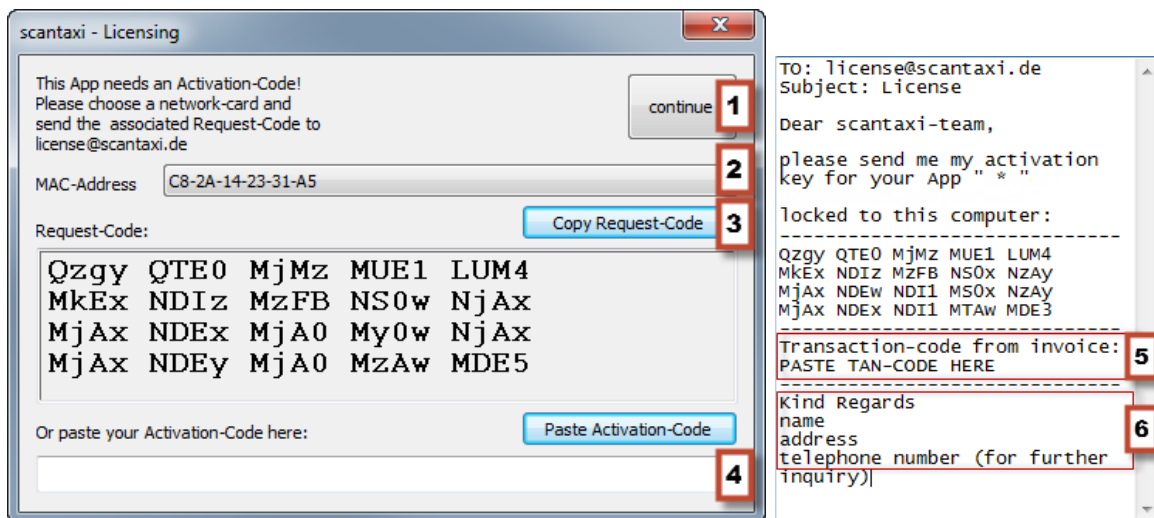
- Report can be tested without any limitations for a week
- the license can be requested under license@scantaxi.de
- See chapter 4 for activation process

Report

4 Activation process

Starting Report without a valid license will prompt the licensing dialog.

A full license can be purchased or an one week trial requested.



- Select a MAC address (2)
- Press "Copy Request-Code" to copy the e-mail to the clipboard (3)
- Copy clipboard to email
- Enter transaction number from invoice (5) and your contact information (6)
- Send e-mail to license@scantaxi.de
- Paste received activation code (4)
- Activate license (1)

Report

5 Report functions

5.1 Scanner position

The scanner position tab will provide an overview of all scans within the project. In this tab you will get the following attributes:

- 1 Scan name of the scan
- 2 x, y, z (m) coordinates of the scan
- 3 # number of objects used in the scan
- 4 mx, my, mz, mR (mm) averaged deviation of the objects in the scan
- 5 Res resolution of the scan
- 6 Quality quality of the scan
- 7 RecTime date and time recorded
- 8 ScPoi (#) number of scanned points

| 1 | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | | | |
|----------|---------|----------|---------|---|---------|---------|---------|---------|-----|---------|---------------------|-------------|
| Scan | x [m] | y [m] | z [m] | # | mx [mm] | my [mm] | mz [mm] | mR [mm] | Res | Quality | RecTime | ScanPts [#] |
| Tuch_005 | 10.7481 | -0.4108 | 1.0439 | 9 | 5.7 | 2.6 | 4.8 | 7.9 | 1/2 | 2x | 06.03.2014 12:07:01 | 175.356.632 |
| Tuch_007 | 5.4299 | 14.0699 | 2.0352 | 9 | 2.9 | 1.8 | 2.1 | 4.0 | 1/2 | 2x | 06.03.2014 12:20:04 | 175.373.700 |
| Tuch_008 | 10.9370 | 17.6297 | 0.9935 | 9 | 2.8 | 2.1 | 2.3 | 4.2 | 1/2 | 2x | 06.03.2014 12:34:19 | 175.322.496 |
| Tuch_009 | 27.3262 | 16.9000 | 10.4421 | 8 | 2.9 | 1.8 | 2.3 | 4.1 | 1/2 | 2x | 06.03.2014 14:16:30 | 175.288.360 |
| Tuch_010 | 33.0925 | 4.6288 | 10.6934 | 6 | 1.1 | 1.9 | 2.4 | 3.2 | 1/4 | 2x | 06.03.2014 14:22:15 | 43.805.022 |
| Tuch_011 | 32.5487 | -10.1586 | 10.6936 | 6 | 1.8 | 1.9 | 2.5 | 3.6 | 1/4 | 2x | 06.03.2014 14:27:59 | 43.856.226 |
| Tuch_012 | 28.8482 | -15.2453 | 10.5842 | 6 | 3.0 | 1.8 | 1.1 | 3.7 | 1/4 | 2x | 06.03.2014 14:31:21 | 43.873.294 |
| Tuch_013 | 29.7971 | -22.0279 | 10.4242 | 6 | 2.5 | 3.7 | 1.1 | 4.6 | 1/2 | 2x | 06.03.2014 14:45:34 | 175.373.700 |
| Tuch_015 | 10.4606 | 18.0165 | 0.8580 | 7 | 3.8 | 1.7 | 1.3 | 4.4 | 1/2 | 2x | 20.03.2014 10:38:18 | 176.039.352 |
| Tuch_016 | 23.4941 | 18.4022 | 0.9959 | 8 | 4.8 | 3.0 | 1.4 | 5.8 | 1/2 | 2x | 20.03.2014 10:50:27 | 176.107.624 |
| Tuch_017 | 28.1034 | 27.2171 | 0.8680 | 8 | 3.4 | 1.7 | 3.3 | 5.1 | 1/2 | 2x | 20.03.2014 11:01:44 | 176.107.624 |
| Tuch_019 | 45.6158 | 25.7616 | 1.0231 | 7 | 1.9 | 4.3 | 1.7 | 5.0 | 1/2 | 2x | 20.03.2014 11:24:38 | 176.090.556 |
| Tuch_020 | 57.6851 | 26.0614 | 1.0874 | 8 | 4.2 | 4.5 | 2.8 | 6.7 | 1/2 | 2x | 20.03.2014 11:36:02 | 176.039.352 |

Figure 3: Scan position tab

If a line is double clicked, the Report automatically jumps to the all objects tab all objects of the double clicked-scan and sorts it by scan name.

Report

5.2 Averaged objects

This tab gives an summarized overview of the objects in the project.

- 1 ☒ use object for calculation
- 1 Internal Name internal name
- 2 x, y, z (m) mean of the object group
- 3 # object count
- 4 mx, my, mz, mR (mm) deviation

| 1 | 2 | 3 | 4 | | | | | |
|--|----------|----------|--------|---|---------|---------|---------|---------|
| Internal name | x [m] | y [m] | z [m] | # | mx [mm] | my [mm] | mz [mm] | mR [mm] |
| <input checked="" type="checkbox"/> 9000x | -13.3251 | -28.4278 | 0.3049 | 3 | 4.9 | 3.6 | 2.1 | 6.4 |
| <input checked="" type="checkbox"/> 9001x | -0.0012 | 0.0021 | 0.4482 | 7 | 2.7 | 1.3 | 3.4 | 4.6 |
| <input checked="" type="checkbox"/> 9001xx | -0.0016 | 0.0044 | 1.1937 | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| <input checked="" type="checkbox"/> 9002x | 8.0798 | 18.6277 | 0.3464 | 5 | 8.1 | 2.2 | 2.7 | 8.8 |
| <input checked="" type="checkbox"/> 9002xx | 8.0878 | 18.6297 | 1.0949 | 4 | 3.4 | 1.8 | 3.2 | 4.9 |
| <input checked="" type="checkbox"/> 9003x | 20.3916 | 29.4408 | 0.4839 | 5 | 5.3 | 1.9 | 3.7 | 6.7 |
| <input checked="" type="checkbox"/> 9003xx | 20.3917 | 29.4418 | 1.2363 | 3 | 0.5 | 2.9 | 2.2 | 3.6 |
| <input checked="" type="checkbox"/> 9004x | 46.9247 | 19.3189 | 0.7441 | 8 | 5.8 | 1.9 | 2.6 | 6.6 |
| <input checked="" type="checkbox"/> 9005x | 49.1103 | 29.3839 | 0.6543 | 3 | 2.2 | 4.8 | 4.4 | 6.9 |
| <input checked="" type="checkbox"/> 9006x | 66.6900 | 19.3534 | 0.9121 | 6 | 2.9 | 14.3 | 4.3 | 15.2 |
| <input checked="" type="checkbox"/> 9007x | 73.4797 | 29.9064 | 0.8352 | 4 | 8.5 | 2.1 | 4.0 | 9.6 |
| <input checked="" type="checkbox"/> 9008x | 96.6496 | 19.2334 | 1.2740 | 6 | 2.8 | 3.9 | 2.3 | 5.4 |
| <input checked="" type="checkbox"/> 9009x | 96.6632 | -7.4616 | 1.5231 | 8 | 1.6 | 4.6 | 3.8 | 6.2 |

Figure 4: Averaged objects tab

If a line is double clicked, Report automatically jumps to all objects tab of the double clicked group and sorts it by internal name.

Report

5.3 All objects

All objects in the project can be viewed in this tab. Every object group gets an additional mean value.

- 1 Checkbox use object for calculation
- 1 Internal name internal name
- 2 SCENE name name in SCENE, where this object is from
- 3 Scan object can be found in scan
- 4 Type object type
- 5 x, y, z (m) object coordinates
- 6 dx, dy, dz, dR (mm) object deviation
- 7 D2S distance from scanner to object
- 8 Pts (#) used points for object detection
- 9 PS (mm) point grid size on object in the scan
- 10 Res scan resolution

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | |
|--|------------|----------|-------------|----------|----------|--------|---------|---------|---------|---------|---------|---------|---------|-----|
| Internal name | SCENE name | Scan | Type | x [m] | y [m] | z [m] | dx [mm] | dy [mm] | dz [mm] | dR [mm] | D2S [m] | Pts [#] | PS [mm] | Res |
| <input checked="" type="checkbox"/> 9000x | | | _mean_ | -13.3251 | -28.4278 | 0.3049 | 3.1 | 1.8 | 0.1 | 3.6 | | | | |
| <input checked="" type="checkbox"/> 9000x | 9000x | | _Reference_ | -13.3220 | -28.4260 | 0.3050 | | | | | | | | |
| <input checked="" type="checkbox"/> 9000x | 9000x | Tuch_000 | Sphere | -13.3281 | -28.4311 | 0.3028 | 6.1 | 5.1 | 2.2 | 8.3 | 25.2009 | 49 | 7.4 | 1/2 |
| <input checked="" type="checkbox"/> 9000x | 9000x | Tuch_002 | Sphere | -13.3253 | -28.4264 | 0.3068 | 3.3 | 0.4 | -1.8 | 3.8 | 16.5833 | 508 | 4.8 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | | | _mean_ | -0.0012 | 0.0021 | 0.4482 | 0.2 | -0.1 | -0.2 | 0.3 | | | | |
| <input checked="" type="checkbox"/> 9001x | 9001x | | _Reference_ | -0.0010 | 0.0020 | 0.4480 | | | | | | | | |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_002 | Sphere | -0.0010 | 0.0035 | 0.4549 | 0.0 | -1.5 | -6.9 | 7.1 | 21.7822 | 311 | 6.4 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_004 | Sphere | -0.0010 | 0.0024 | 0.4470 | -0.0 | -0.4 | 1.0 | 1.1 | 15.9263 | 129 | 4.7 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_005 | Sphere | -0.0057 | 0.0004 | 0.4471 | 4.7 | 1.6 | 0.9 | 5.1 | 10.7782 | 842 | 3.2 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_007 | Sphere | -0.0030 | 0.0011 | 0.4461 | 2.0 | 0.9 | 1.9 | 2.9 | 15.1649 | 699 | 4.4 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_008 | Sphere | 0.0029 | 0.0016 | 0.4443 | -3.9 | 0.4 | 3.7 | 5.4 | 20.7510 | 316 | 6.1 | 1/2 |
| <input checked="" type="checkbox"/> 9001x | 9001x | Tuch_015 | Sphere | 0.0007 | 0.0039 | 0.4501 | -1.7 | -1.9 | -2.1 | 3.3 | 20.8334 | 353 | 6.1 | 1/2 |
| <input checked="" type="checkbox"/> 9001xx | | | _mean_ | -0.0016 | 0.0044 | 1.1937 | 0.6 | -2.4 | 4.3 | 5.0 | | | | |
| <input checked="" type="checkbox"/> 9001xx | 9001xx | | _Reference_ | -0.0010 | 0.0020 | 1.1980 | | | | | | | | |
| <input checked="" type="checkbox"/> 9001xx | 9001xx | Tuch_038 | Sphere | -0.0023 | 0.0069 | 1.1895 | 1.3 | -4.9 | 8.5 | 9.9 | 16.3391 | 563 | 4.8 | 1/2 |
| <input checked="" type="checkbox"/> 9002x | | | _mean_ | 8.0798 | 18.6277 | 0.3464 | 6.2 | 1.3 | 0.6 | 6.4 | | | | |
| <input checked="" type="checkbox"/> 9002x | 9002x | | _Reference_ | 8.0860 | 18.6290 | 0.3470 | | | | | | | | |

Figure 5: All Objects Tab

Double clicking a scan switches Report to scan position tab. Every further double click will show the averaged object tab.

Report

5.4 Settings / additional functions

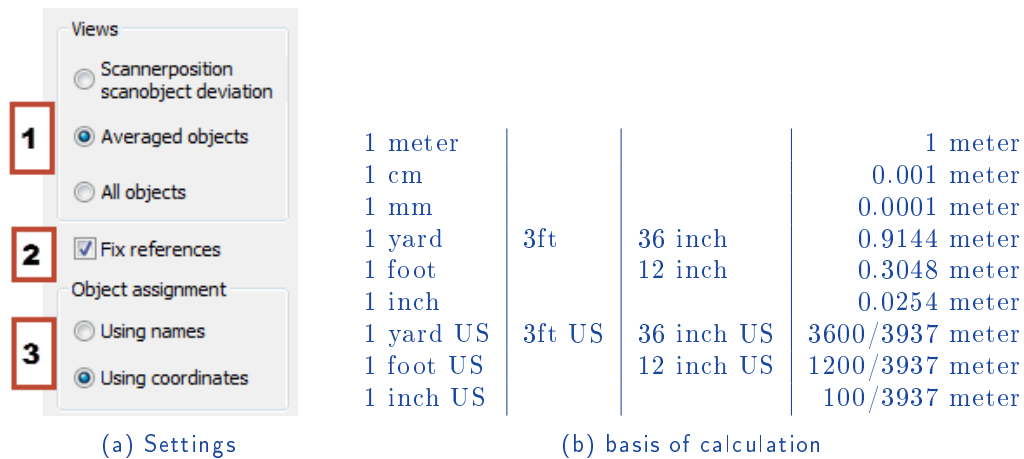


Figure 6

1. Tab selection

switching between Report types

2. Fix references

If checkbox is set, all deviations will be calculated to the reference values (if existing)/ if unchecked, deviations will be calculated according to the mean values.

3. Using names/coordinates for object assignment

There are two means of object assignment: either with objects or with object coordinates. Object names must be assigned correctly. If they are not correct, assignment using coordinates should be used instead.

Report

| |
|---|
| check selected |
| uncheck selected |
| hide selected |
| remove selected |
| rename object |
| hide disable objects with one measurement |
| hide disable references without measurement |
| show hidden objects |
| use internal names |
| remove twins |
| export active view to log |
| export active view to csv |
| export all views to log |
| export all views to csv |

Figure 7: Additional functions

Additional functions can be reached by right clicking in the Report.

- check selected
selected objects will be checked and enabled¹
- uncheck selected
selected objects will be unchecked and deactivated¹
- hide selected
selected objects will be hidden and excluded from calculations;
the "show hidden objects" function makes them visible²
- remove selected
selected objects will be removed and excluded from calculations;
objects will also be removed from SCENE if changes are assigned¹
- rename object
object groups can be renamed easily¹

¹Changes will be applied in SCENE

Report

- hide & disable objects with one measurement
objects with only one measurement will be hidden and deactivated¹
- hide & disable references without measurement
references in scans without any measurement will be hidden and deactivated¹
- show hidden objects
this function makes hidden objects visible, so that they can be used for calculations
- use internal names
in the case of different names in object groups, Report can adjust and apply them to SCENE¹
- remove twins
if objects are too close or double-marked, Report will remove them in SCENE¹
- export active view to log
exports active view to .txt file
- export active view to .csv
exports active view to .csv file, for use with Excel
- export all views to log
exports all views to .txt file
- export all views to .csv
Exports all views to .csv file, for use with Excel

¹Changes will be applied in SCENE

²Changes will not be applied in SCENE

Report

5.5 Options

1. set unit

Unit can be selected which will be used in report and export. (Fig. 6b)

2. set limit values

Deviations from mean or references are marked in different colors. Limits can be set separately for each axis.

3. object search radius

Distance between objects to determine shared identity.

Search radius will be used, if using coordinates for object assignment is activated.

4. assign options

- ignore name changes - name changes will be ignored
- ignore remove status - objects will not be removed

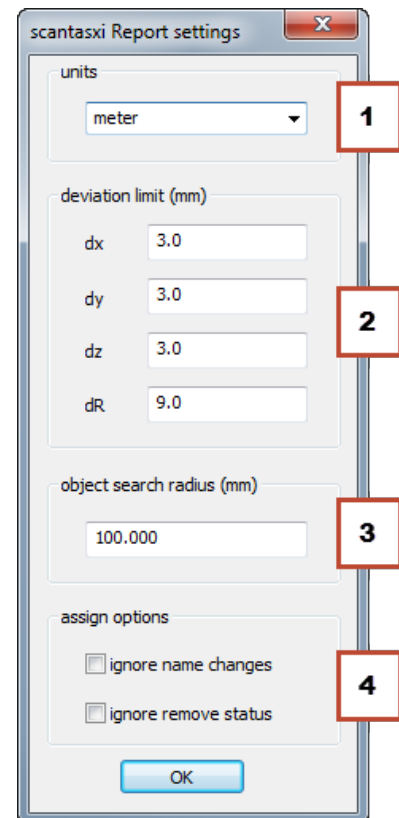


Figure 8: options

6 Known issues

- Unloading the app while running will cause SCENE to crash

Report

7 End User License Agreement

This Software License Agreement is part of the Operating Manual for the product and software System which you have purchased from scantaxi UG (haftungsbeschränkt) (collectively, the "Licensor"). By your use of the software you are agreeing to the terms and conditions of this Software License Agreement. Throughout this Software License Agreement, the term "Licensee" means the owner of the System.

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- VII The interpretation of this Agreement shall be governed by the following provisions:
 - a This Agreement shall be construed pursuant to and governed by the substantive laws of Germany.
 - b If any provision of this Agreement is determined by a court of competent jurisdiction to be void and non-enforceable, such determination shall not affect any other provision of this Agreement, and the remaining provisions of this Agreement shall remain in full force and effect. If any provision or term of this Agreement is susceptible to two or more constructions or interpretations, one or more of which would render the provision or term void or non-enforceable, the parties agree that a construction or interpretation which renders the term of provision valid shall be favored.
 - c This Agreement constitutes the entire Agreement, and supersedes all prior agreements and understandings, oral and written, among the parties to this Agreement with respect to the subject matter hereof.
- VIII If a party engages the services of an attorney or any other third party or in any way initiates legal action to enforce its rights under this Agreement, the prevailing party shall be entitled to recover all reasonable costs and expenses (including reasonable attorney's fees before trial and in appellate proceedings).