

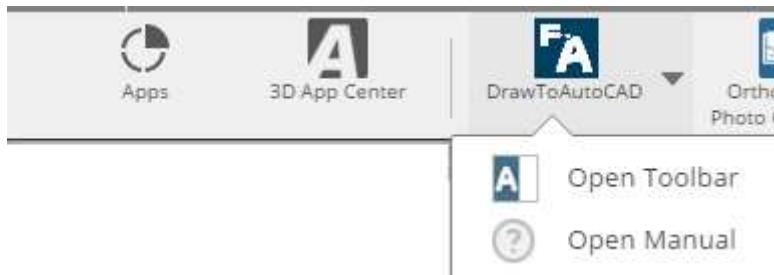
DrawToAutoCAD (version 3.0) – Quick Start Guide

System Requirements

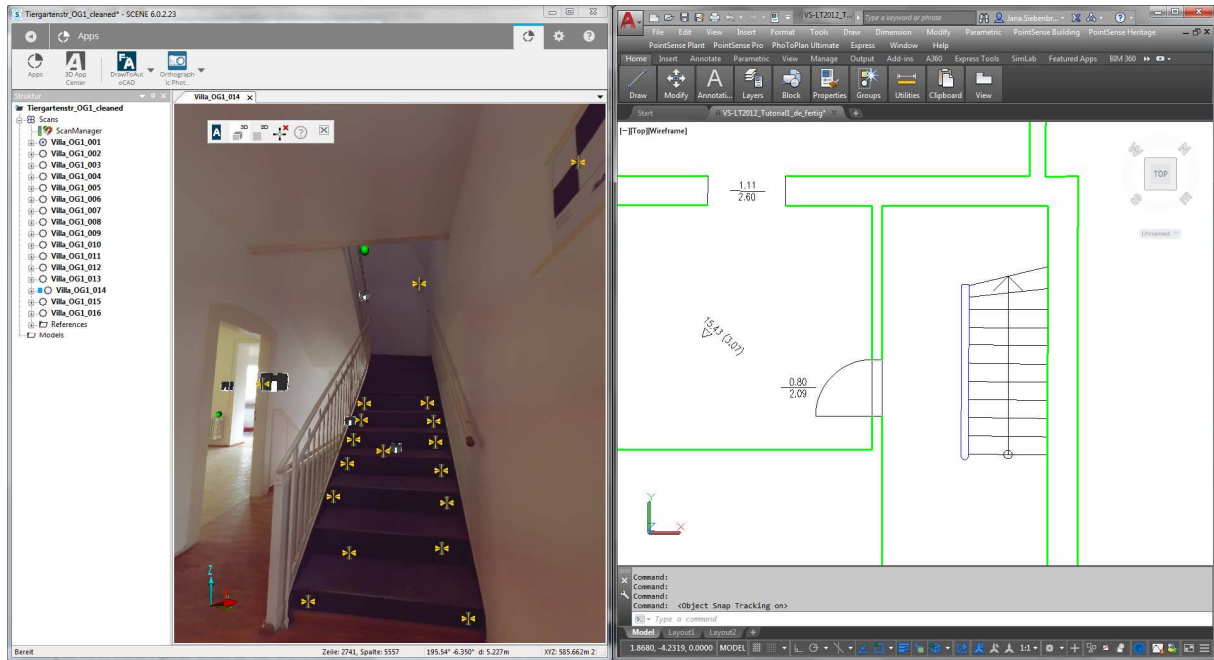
- SCENE 6.0 and above
- AutoCAD 2010 and above with PointCloud/PointSense/FARO Cloud (8.0.4.12) and above or AutoCAD LT 2010 and above with VirtuSurv (15.0) and above, for support of older versions of AutoCAD or PointCloud please contact support@faroeurope.com

How to measure

Start SCENE, load a Project or Workspace and open a Planar or Quick View or open a 3D View of a single scan so you look at it from the scanners perspective. This ensures that you will not pick wrong points. Then open the DrawToBricsCAD toolbar from the Apps menu.



Start AutoCAD with PointCloud/PointSense/FARO Cloud loaded or AutoCAD LT with VirtuSurv loaded (Tipp: Arrange SCENE and AutoCAD side-by-side).



Run an AutoCAD command for drawing. Then start picking coordinates in Scene by clicking one of the Measure buttons:




for sending 3D points or



for sending 3D points that will be converted to 2D points regarding the current AutoCAD UCS (useful for AutoCAD commands like ARC, CIRCLE, PLINE)

Note: If you forget to start an AutoCAD command first, the coordinates will be transferred into the command line without drawing anything.

SCENE will then switch to measuring mode and the cursor will change to . Left mouse clicks will send measurements to AutoCAD until the user right clicks or presses

the ESCAPE key. You may also use the  button to quit the DrawToAutoCAD mode and close the toolbar.

To navigate while SCENE is in measuring mode, hold down the SHIFT key.

Measurements will be marked by point symbols:



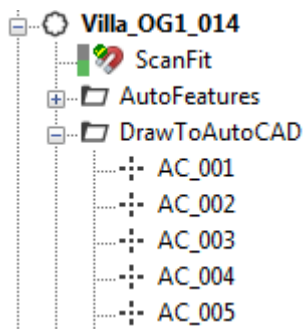
in Quick View and 3D View




in the Planar View




A point object will be created for each measured point. You find them in the structure tree in a DrawToAutoCAD subfolder under the scan they have been measured in.



The point symbols will be stored on the “Measurements” layer. If you do not see markers for your measured points make sure you switch this layer visible in the visibility settings of SCENE .

The measured points can be stored with the SCENE project.

Note: The points measured with this App will and cannot be used as correspondences for registration.

Click the “Erase” button  to erase all the measurement points from the view and their according objects from the structure tree.

The unit of measurement can be specified in SCENE (Tools → Options... Tab “Units”, Group “Display”, “Length” setting).

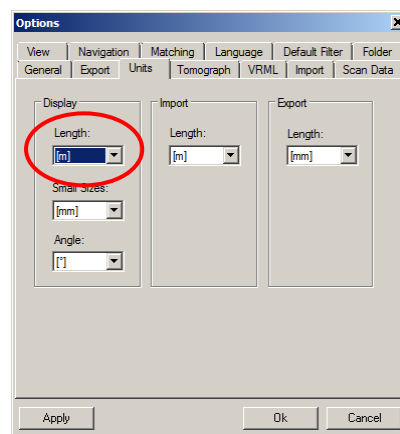


Figure 1 SCENE options dialog to set the unit of measurement

Tips & Tricks

To navigate while measuring hold down SHIFT and left mouse button to swivel the view and use the mouse wheel to zoom.

If you want to work in 3D Views, create Project or Scan Point Clouds in SCENE to access the data without loading individual scans. For Planar or Quick Views the scan always has to be loaded.

In 3D Views use the “Locate” feature to reset the view point back to an individual scan position to have a “Quick view”-like viewing experience (see Figure 2 'Locate' feature: Set view point back to scan position.).

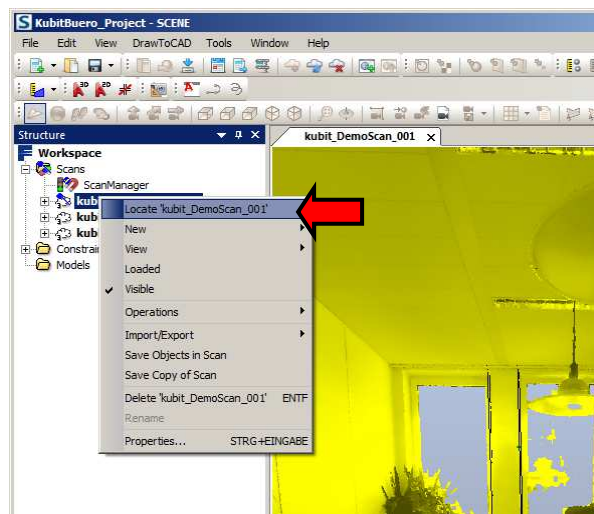


Figure 2 'Locate' feature: Set view point back to scan position.