CAD Plugin for Leica DISTO S910

Getting started

# Basic setup

Required:

✓ **AutoCAD/BricsCAD installed on Windows PC** (Windows 7 or higher)

✓ **DISTO Transfer for S910 installed** (Version 502)

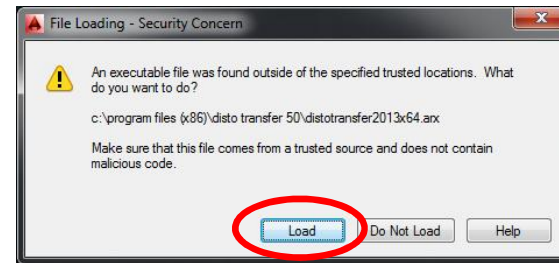✓ **DISTO S910** (Firmware Version 3254 or higher)

- when it has to be **right**

Leica
Geosystems

Connect DISTO to CAD

- **Start AutoCAD/BricsCAD**

- **Setup your DISTO S910 and enable WIFI**

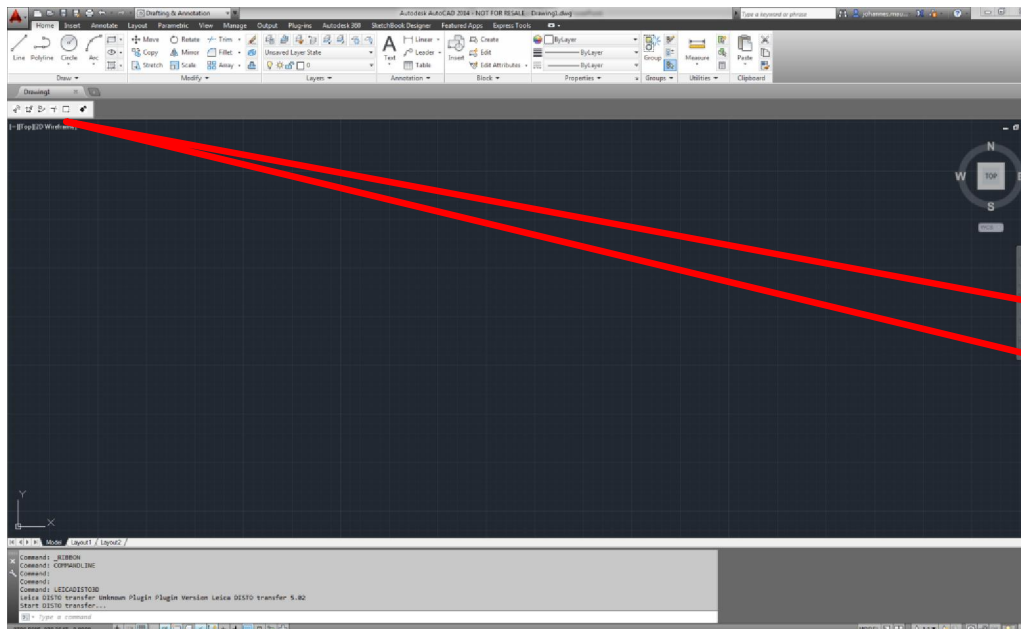- **To start the plugin please enter** **LEICADISTO3D** **into the command line**
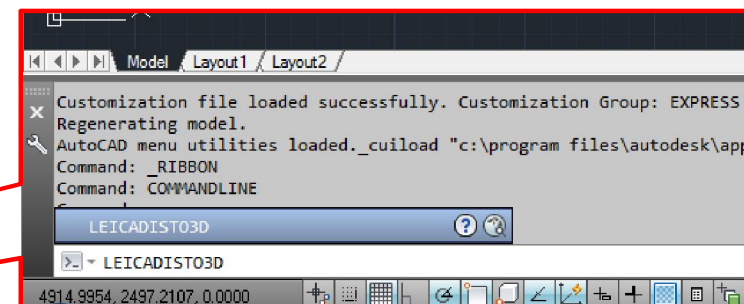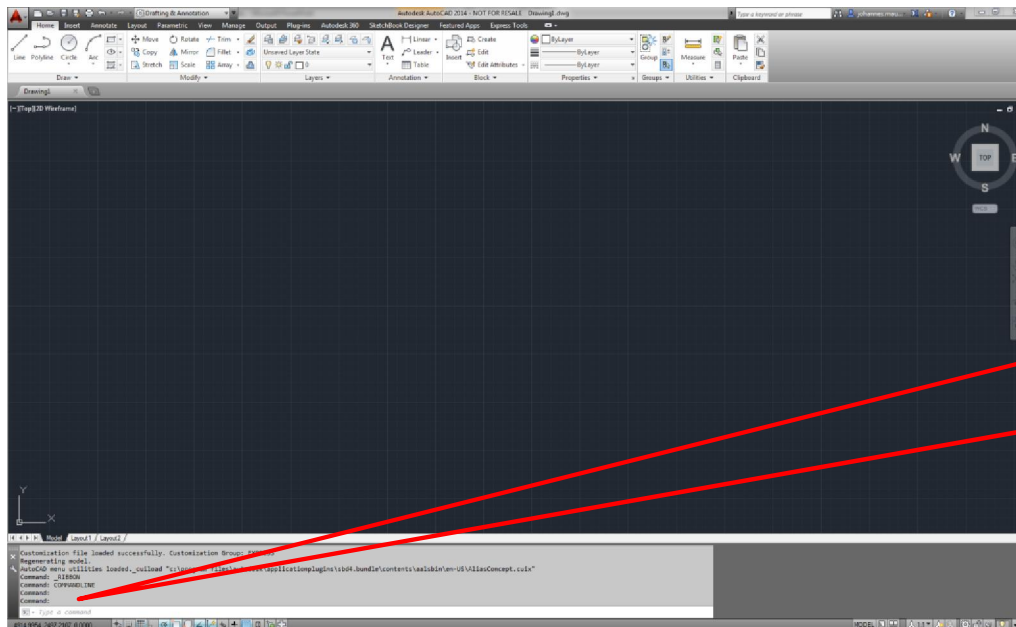
- when it has to be **right**

Start DISTO transfer

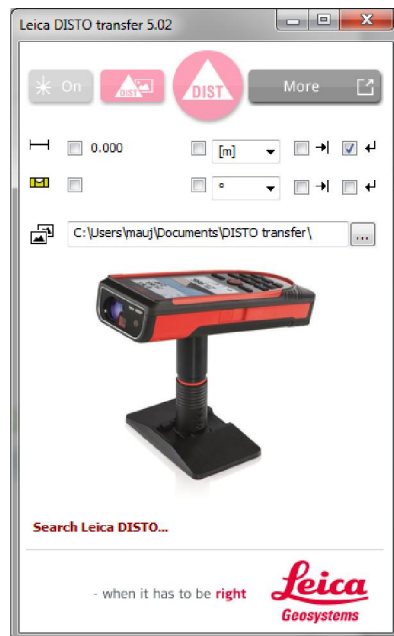- **Confirm to execute plugin**

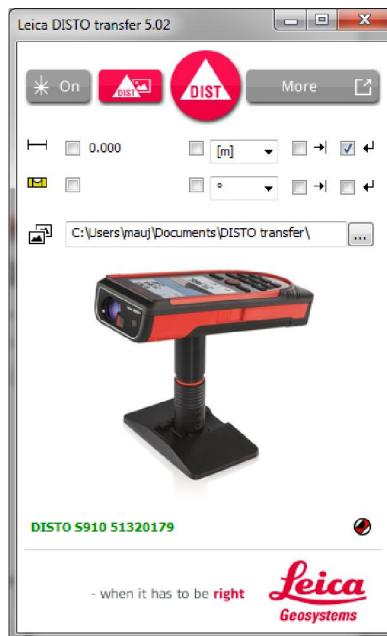- **Plugin toolbar will appear in CAD and DISTO transfer starts**

- when it has to be **right**

Connect to your DISTO
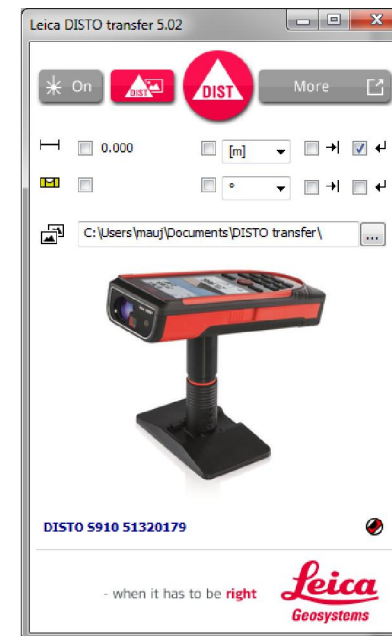
■ **Ensure WIFI is enabled on the DISTO S910**

Looking for DISTO   **DISTO connected to PC**   **DISTO connected to CAD**

Start to work
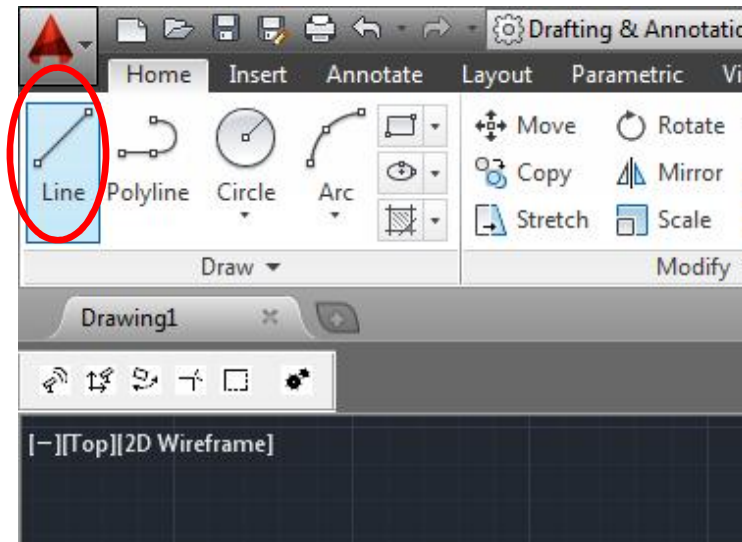## DISTO enters WIFI P2P function

- **Execute levelling setup**

- **Bubble indicates the levelling setup**

- when it has to be **right**

Start a drawing in CAD

- **Start drawing by pressing on the according drawing element**
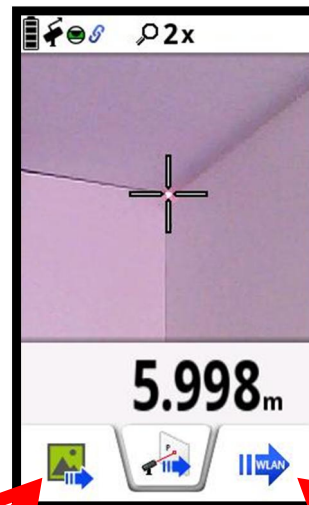
  (e.g. Line here)

- **Now the line drawing has started and you can measure one point after each other**

NOTE: You need to have a drawing function active to get a value recognized by CAD

- when it has to be **right**

Measure your object Point by Point

- When measurement has been triggered, transmit the point into CAD

Transmit..   **Point with picture**   **Point without picture**

- when it has to be **right**

Measure your object Point by Point

- **When you have measured the points you can close the line drawing by pressing escape**

- **Click on "Scale to fit" to see your measured points**
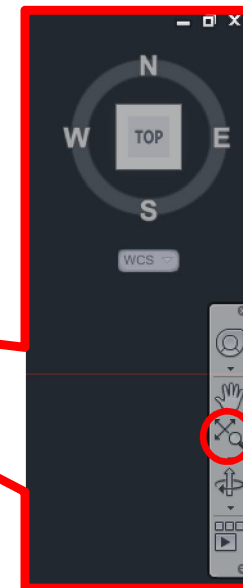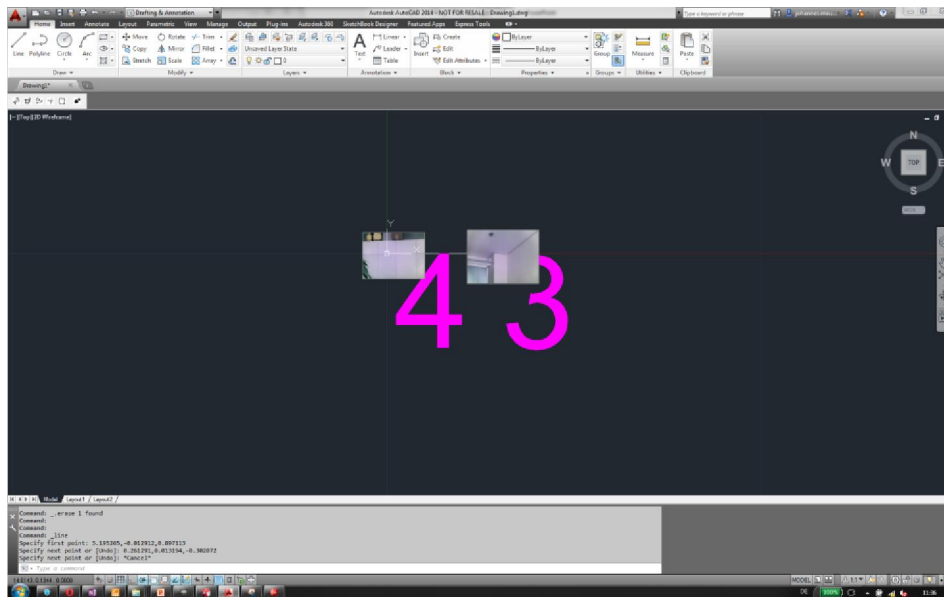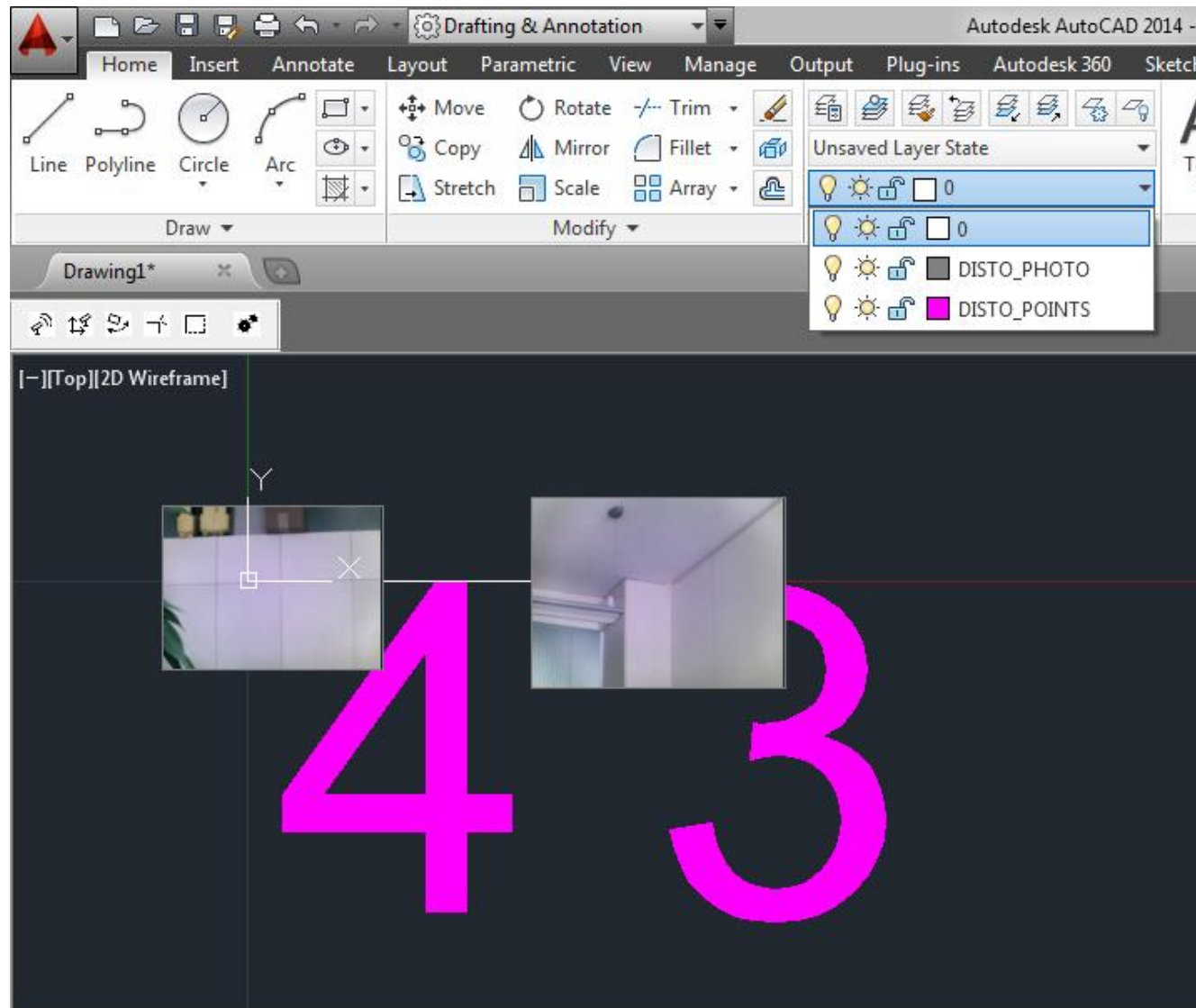
- when it has to be **right**

Know your drawing

Know your drawing

→ **point numbers and photos are in separate layers**

→ **Layers can be (de) activated if (not) required**

- when it has to be **right**

Leica
Geosystems

Toolbar Functions
Overview

- **Connect to DISTO manually**

- **Relocation**

- **Auto Align Images**

- **Trim Lines**

- **Draw Rectangle**

- **Settings for Text and Picture**

- when it has to be **right**

Toolbar Functions
Connect to DISTO

- **Establish connection to the DISTO S910**

- **Connect your CAD to DISTO transfer**

- **Reconnect if connection is lost**

- when it has to be **right**
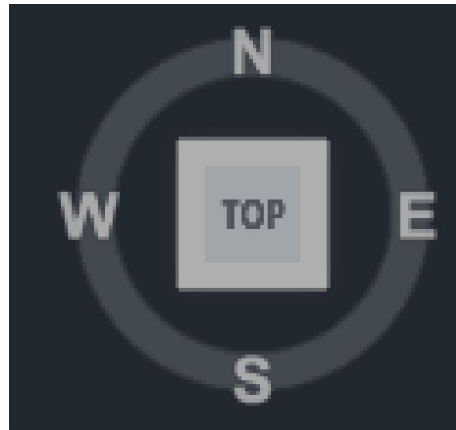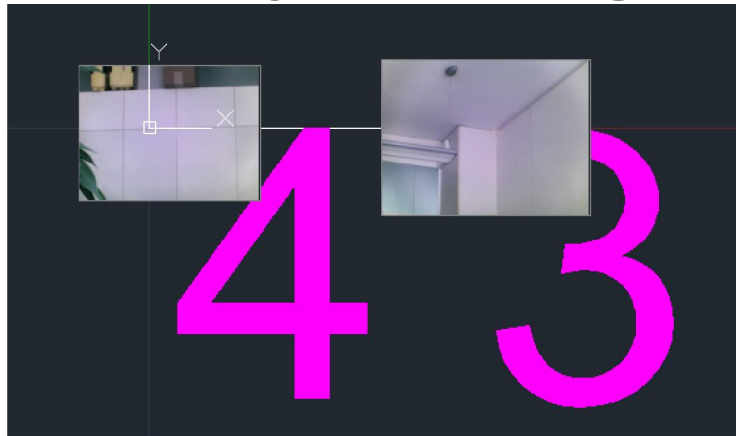
Toolbar Functions
Relocation

- **Reposition within a measured drawing or site**

- **Measure your site from various position to avoid blind spots**

- **Continue an already started drawing or site by measuring selected points again to reposition**

- **Once selected, please follow the guided steps within DISTO transfer to relocate your DISTO S910**

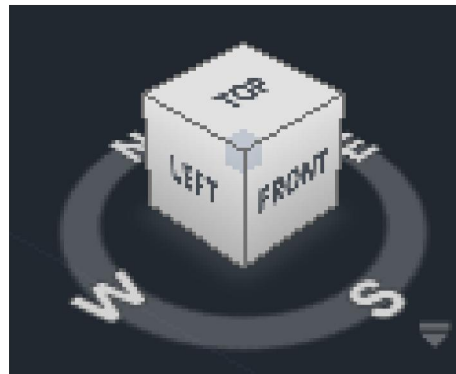- when it has to be **right**

Leica Geosystems

Toolbar Functions
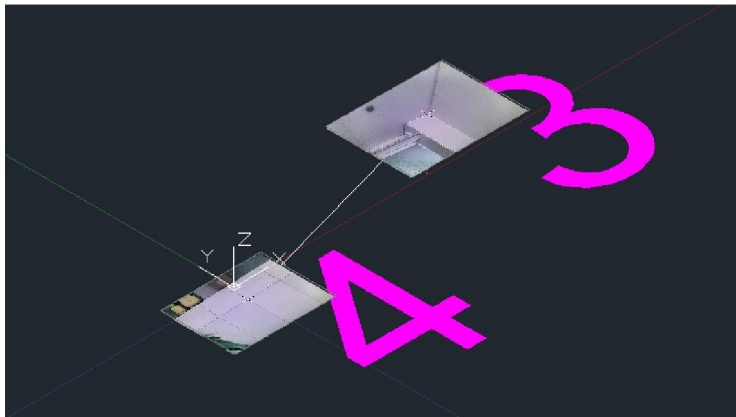## Auto Align Images

- **This is your drawing**

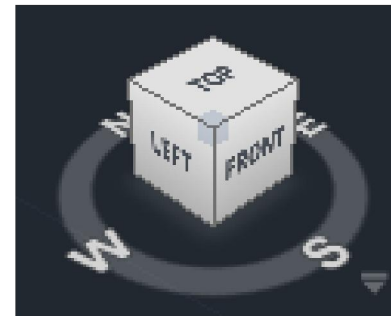

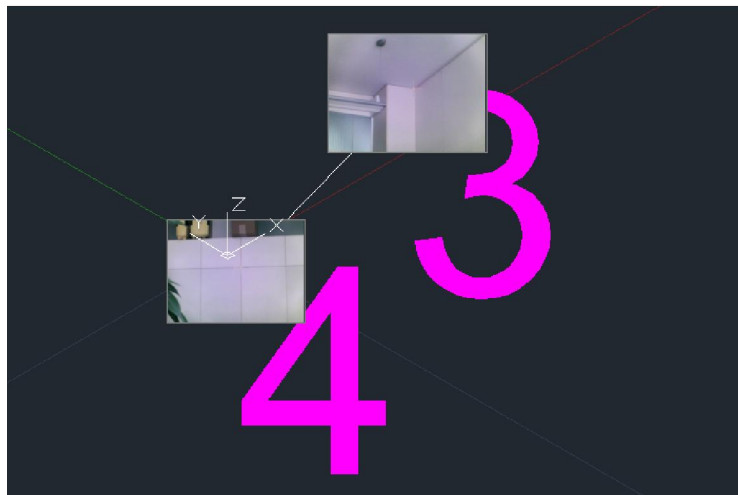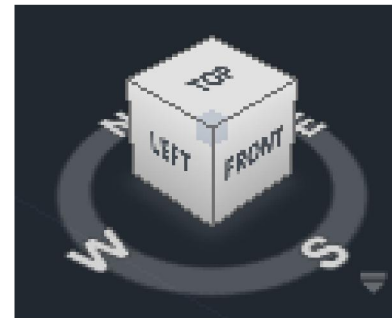- **Change the view from Top to different view**

- when it has to be **right**

Toolbar Functions
Auto Align Images

- **Select the Auto Alignment Button and press enter**
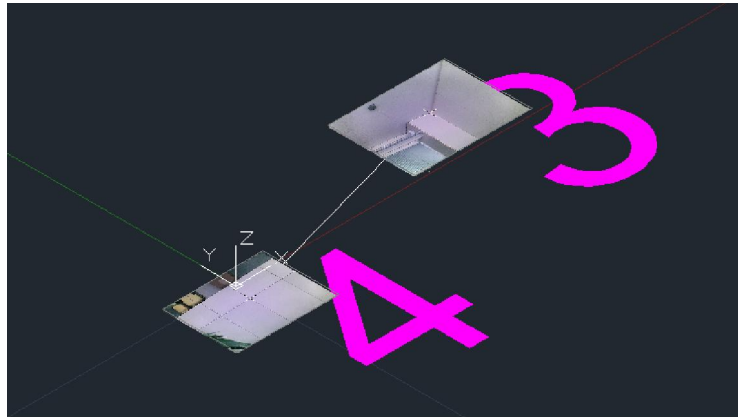
✓ **Images and text are perfectly aligned to your new view**

- when it has to be **right**

Toolbar Functions
Trim Lines

- **Trim two lines together**

In 3D space two lines most likely won't meet

- when it has to be **right**
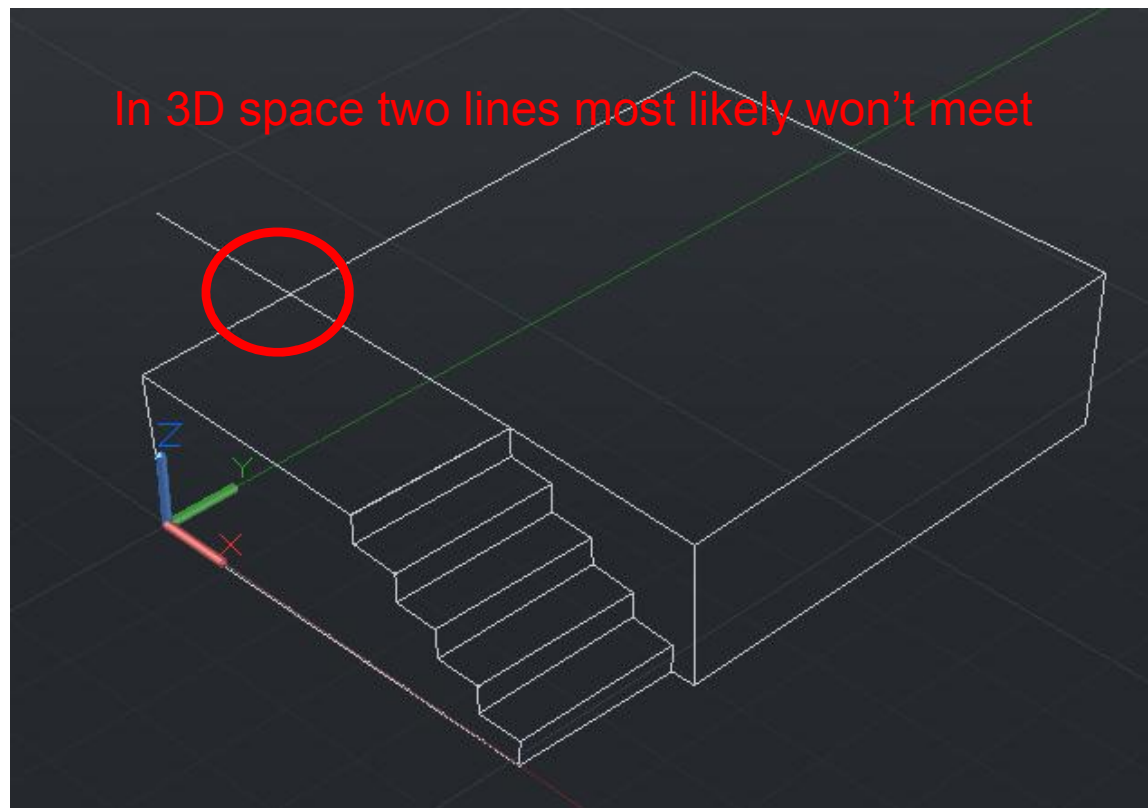
Toolbar Functions
Trim Lines

- **Start Trim function in the toolbar and measure two points from the first line, and the two from the second line**

- when it has to be **right**
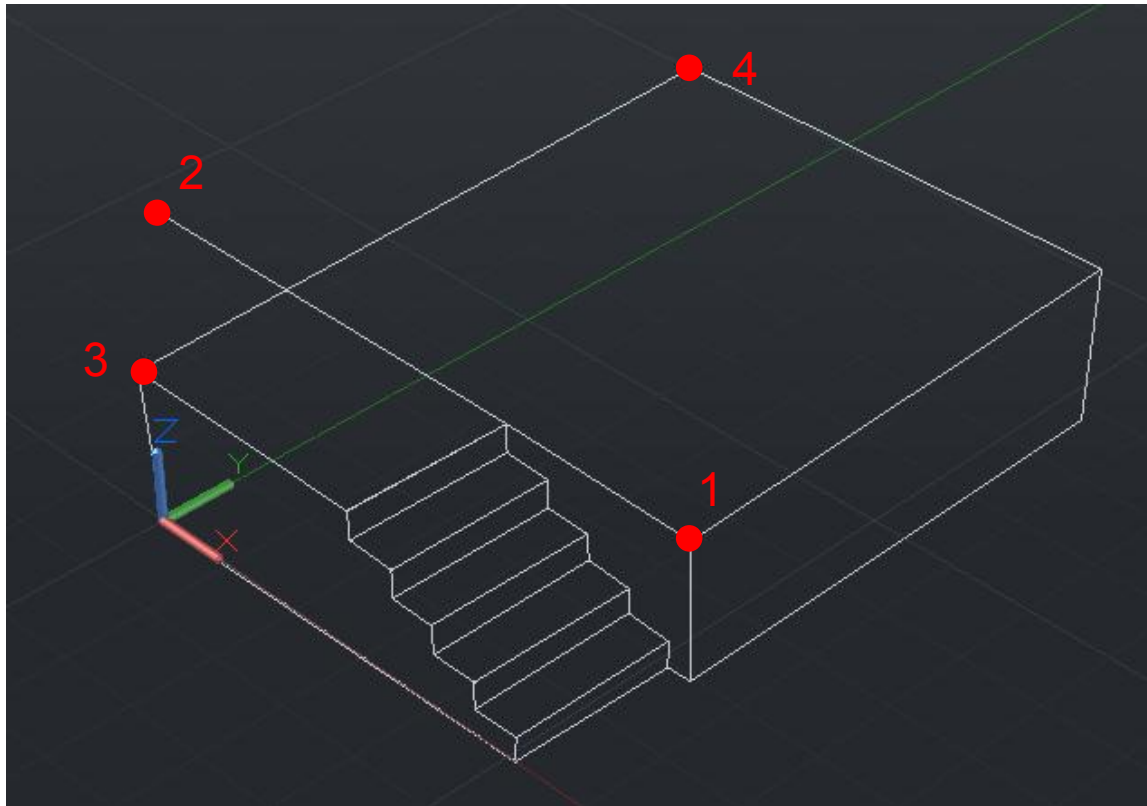
Toolbar Functions
Trim Lines

- **Press enter to quit function and type in "yes" to draw remaining element**
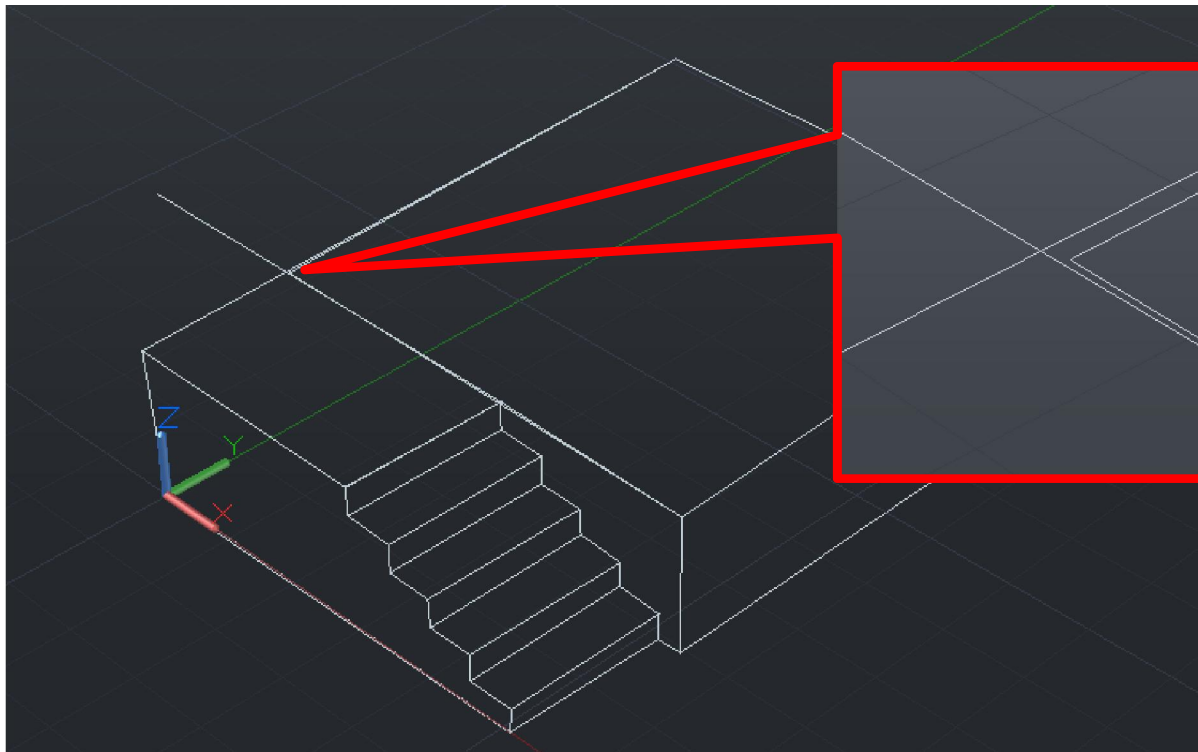
The line section was calculated and put within the drawing as two new lines at the closest point they would meet

- when it has to be **right**

Leica
Geosystems

Toolbar Functions
Trim Lines

- **If you remove the first line sticking out you can clearly see your intersecting new lines**
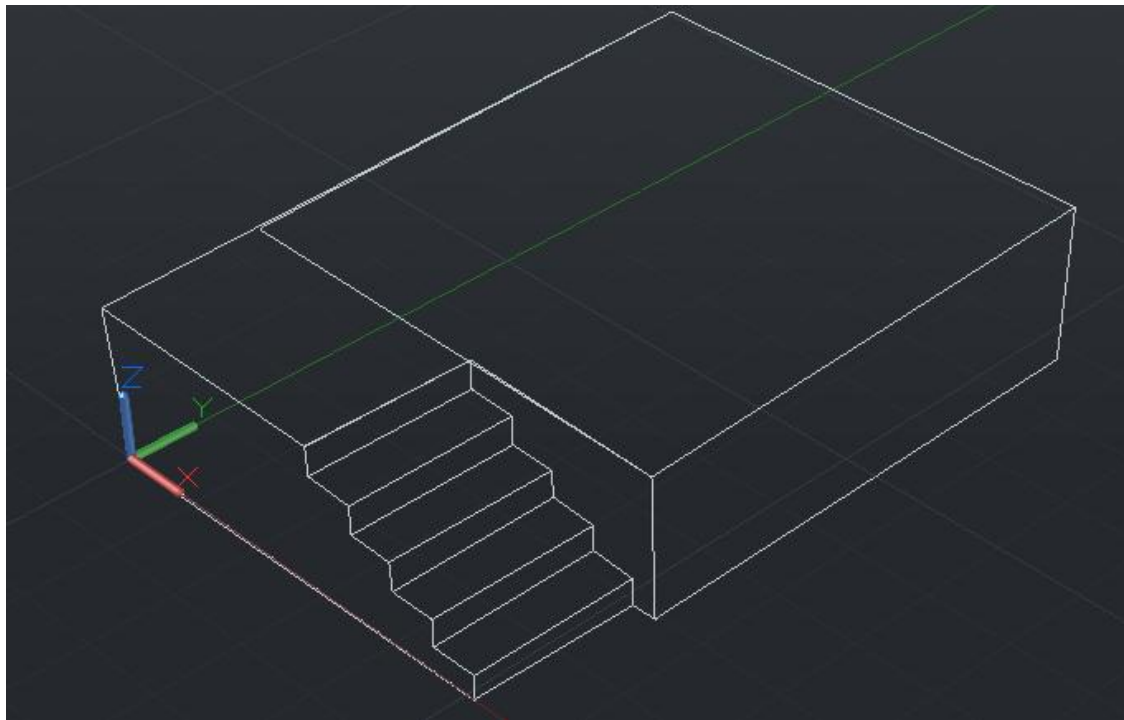
Toolbar Functions
Draw Rectangle

- **Measure three points with your DISTO S910 to create a rectangle in 3D space**

Automatically drawn lines
And remaining point is added

- when it has to be **right**

Toolbar Functions
Settings for Text and Pictures

- **Adjust the text and image size**

- **TEXTSIZE is a relative value, that matches to your drawings preferences**

Leica DISTO transfer
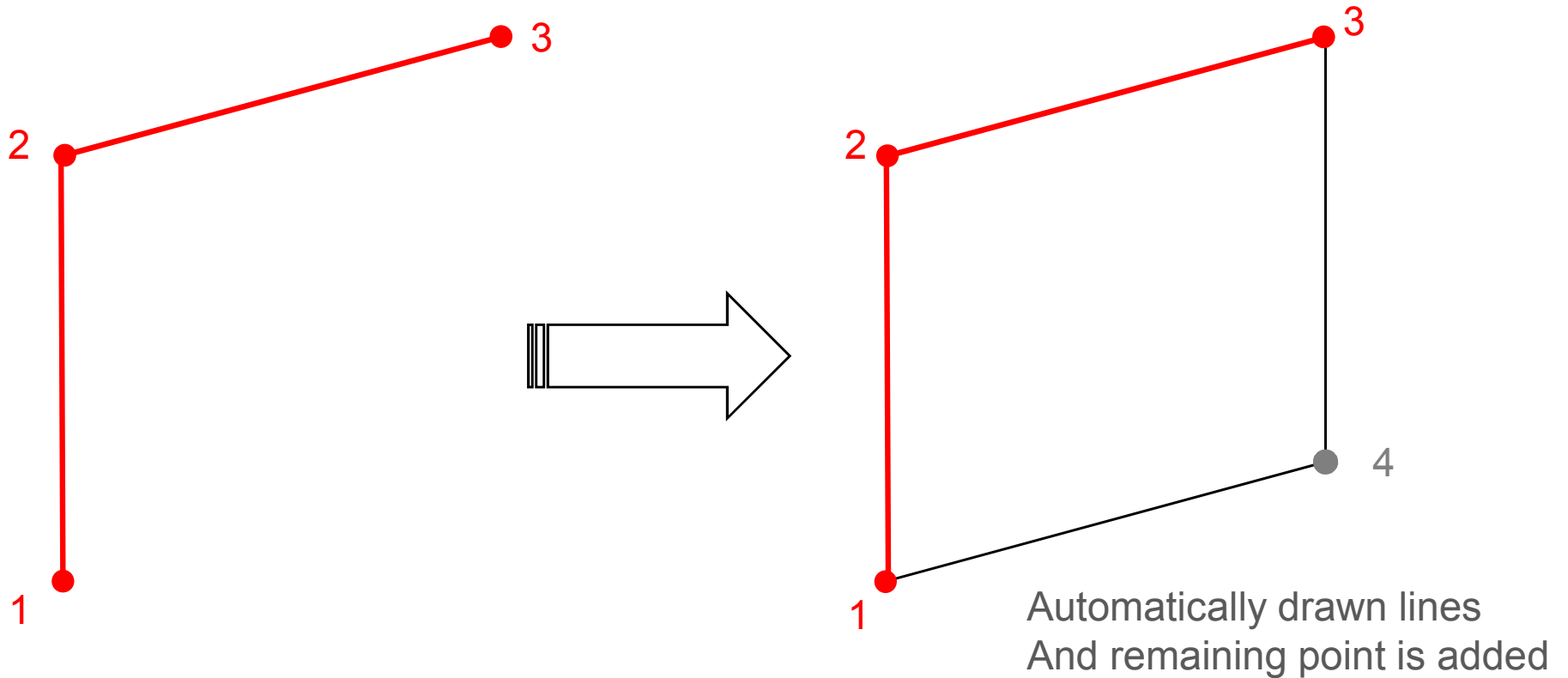
Label Transferred points

Text size of the labeling: 0 means that the default font size of the drawing is taken

TEXTSIZE   0.01

Transferred Photos

⦿ Adjust image size accoring to measuring distance, the greater the distance the greater the image.

○ Determine image size:
  1

Cancel   OK

- when it has to be **right**

Leica Geosystems

Good to Know

✓ **Photos transferred from the DISTO S910 into the drawing will be stored within the same directory as the drawing**

✓ **Line functions and trimming is only available if the correct layer is selected**

✓ **Explanations to the single steps of a function are always within the command line**

- when it has to be **right**

Measure anything from anywhere
right into CAD

- when it has to be **right**

Leica Geosystems

Measure anything from anywhere
right into CAD

- when it has to be **right**

Leica Geosystems