Leica DISTOTM transfer v6

Quick Start Guide





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Leica DISTO™ Transfer





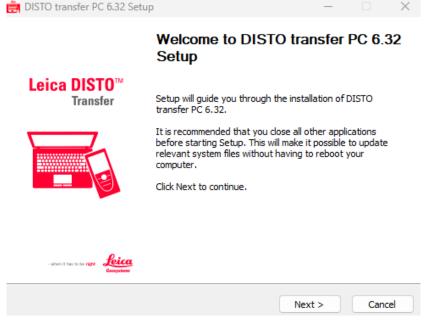


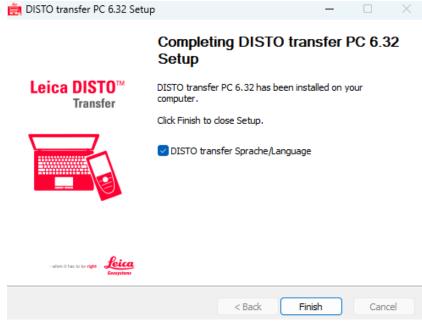
Installation



An Installation Wizard is displayed on the screen to guide the user, through the whole process.







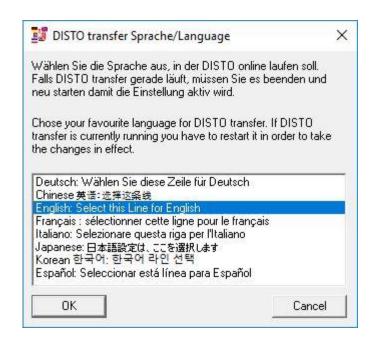


Leica DISTOTM transfer v6

Installation



- DISTO transfer Sprache/Language allows the user to select different languages, accordingly to the user's preference.
- This setting can be changed later by clicking on the icon DISTO transfer 6.0 Sprache Language.







Connection with DISTO's



• The Leica DISTO[™] transfer v6 is compatible with all Leica products which have Bluetooth® Smart and Wi-Fi technology.





















S910





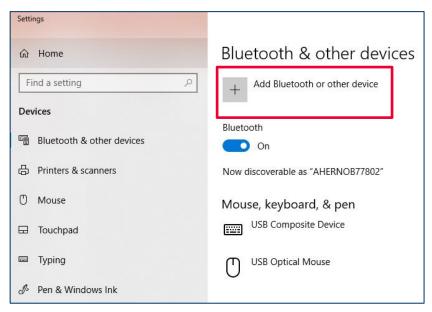


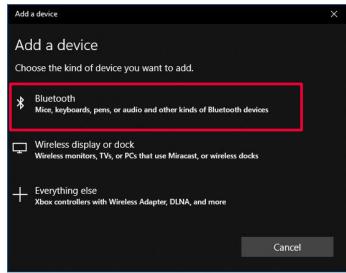


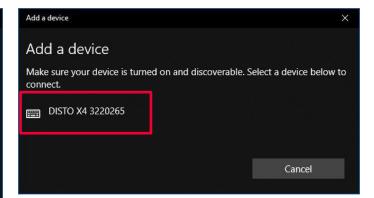
Bluetooth Connection



• Establish a Bluetooth connection between your Leica DISTO™ device and your tablet/laptop, via Windows Operating System.







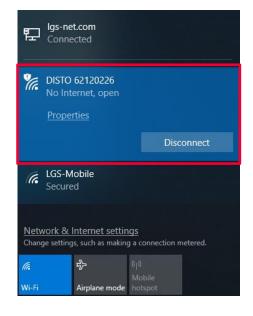


Wi-Fi Connection



• Establish a Wi-Fi connection between your Leica DISTO™ device and your tablet/laptop, via Windows Operating System.







DISTO™ is connected

Please ensure that you have the latest firmware version installed (https://lasers.leica-geosystems.com/global/firmware-update-s910)



Start screen – Connection Status



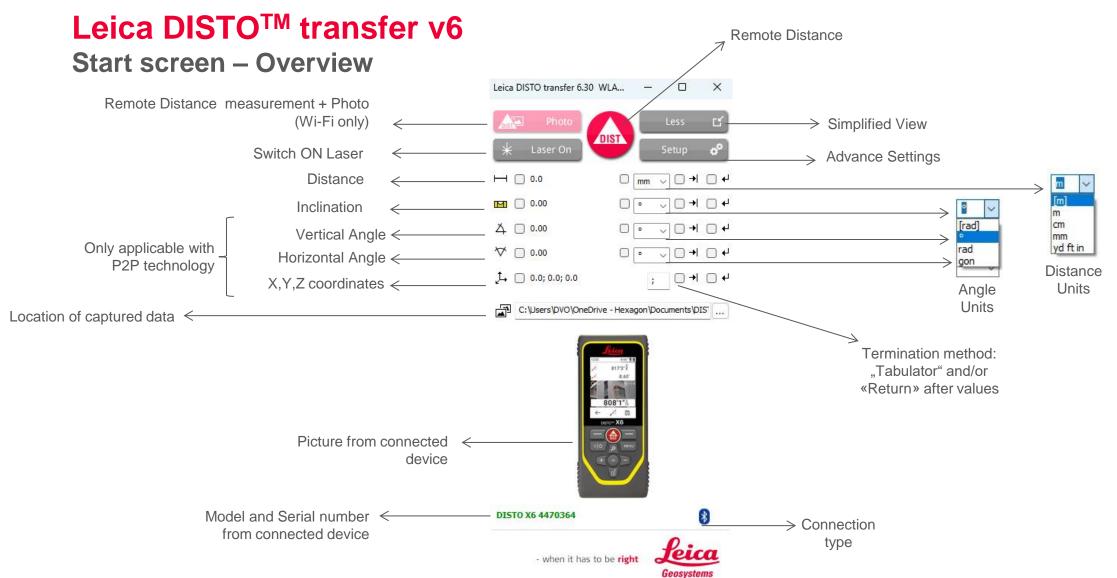
 When the software is started, the initial screen is displayed and starts immediately to look for a Leica DISTO™ device.





DISTO™ connected





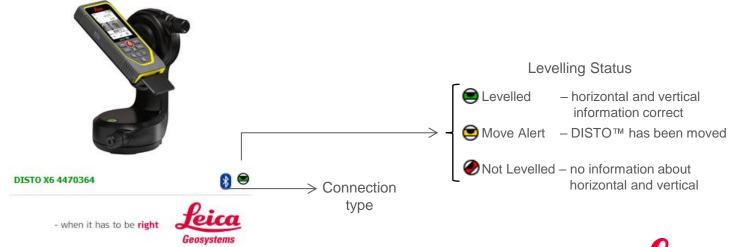


Start screen – Overview



- Please note that, when DISTO™ X3 / X4 / X6 are mounted on a DST 360 (DST 360-X for X6)
 adapter, the levelling process is automatically started and the levelling status is displayed on
 the Start screen.
- The same is applicable when the DISTO™ S910 has got the Smart Base folded down.
- These two modes allow you to use P2P technology.



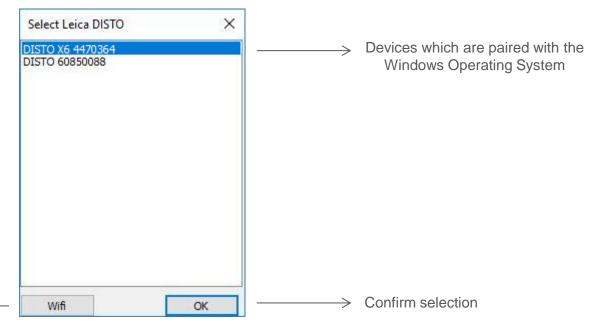


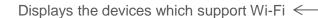


Start screen - Overview



- If you have previously connected more than one Leica DISTO™ to your tablet/laptop, the DISTO transfer software will display a multiple selection window.
- Inside this window, you will be offered the chance to select the desired DISTO™ and to switch between Wi-Fi and Bluetooth.

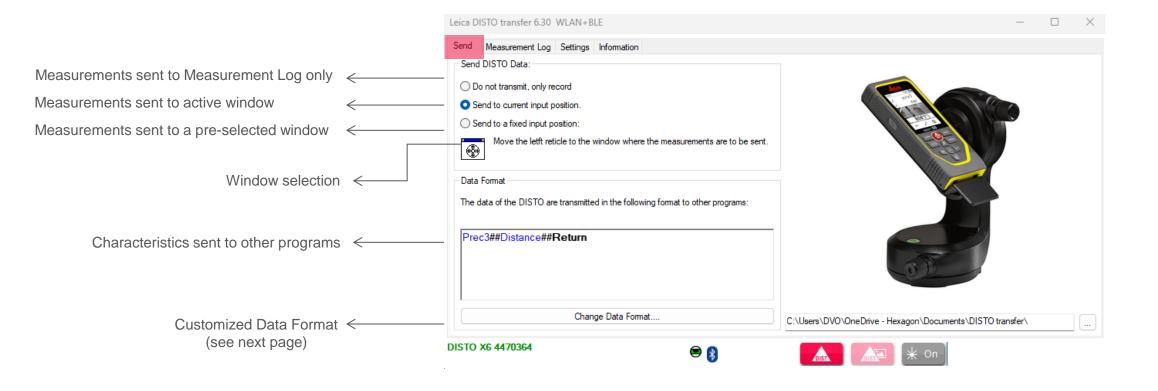






Basic Measurement Process

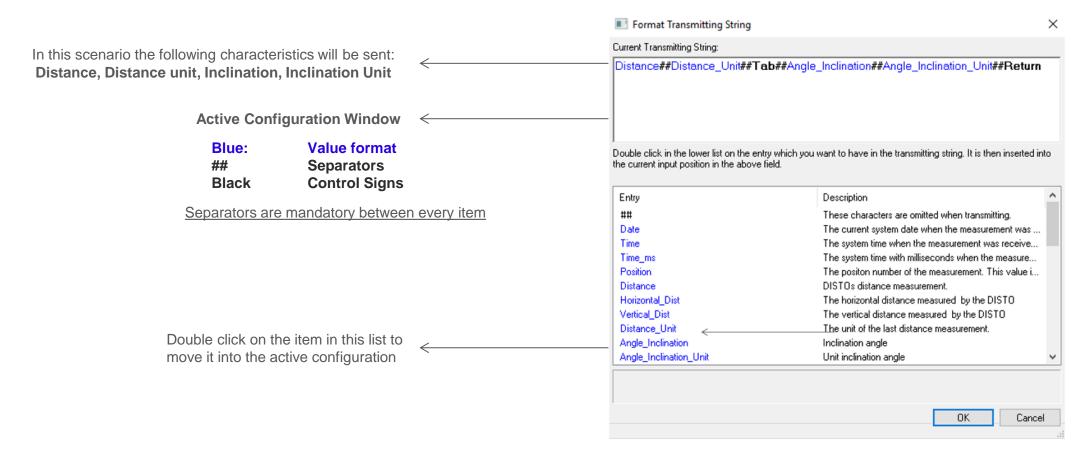






Basic Measurement Process



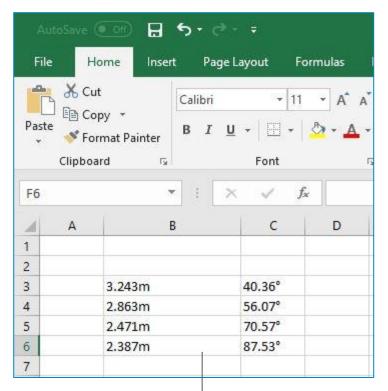




Basic Measurement Process

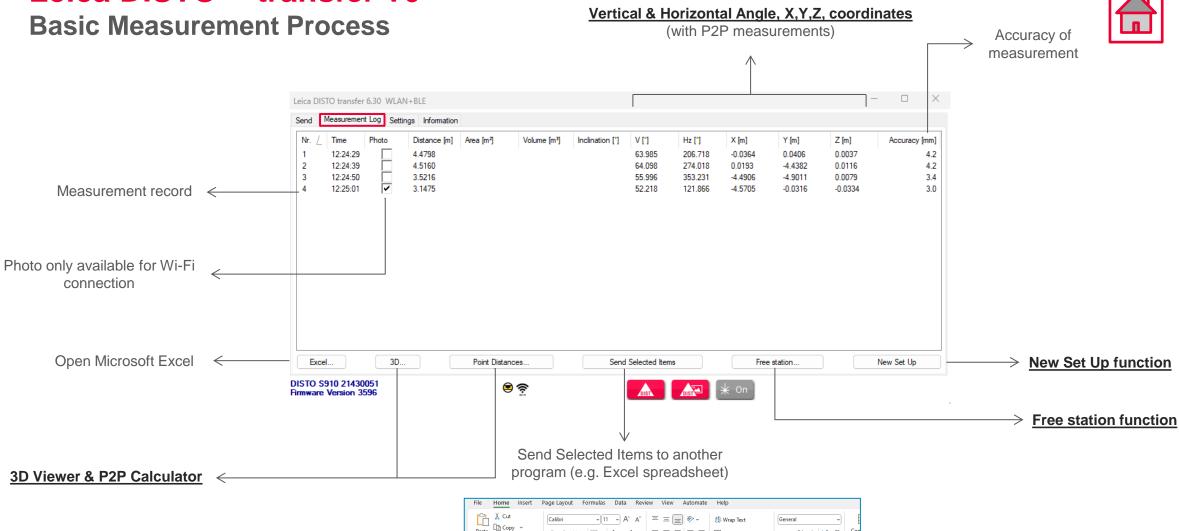






Data format sent to an Excel spreadsheet ←





Nr. Time Photo Distance [m] Area [m²] Volume [m³] Inclination [°] V [°] Hz [°] X [m] Y [m] Z [m]

63.985 206.718 -0.0364 0.0406 0.0037

64.098 274.018 0.0193 -4.4382 0.0116

55.996 353.231 -4.4906 -4.9011 0.0079

52.218 121.866 -4.5705 -0.0316 -0.0334

Format Painter

4.516

3.1475

1 12:24:29

3 12:24:50

2 12:24:39

4 12:25:01



P2P Measurement Process



 To perform P2P Measurements, a DST 360 / DST 360-X adapter is required or the Smart Base from the DISTO™ S910 must be folded down.

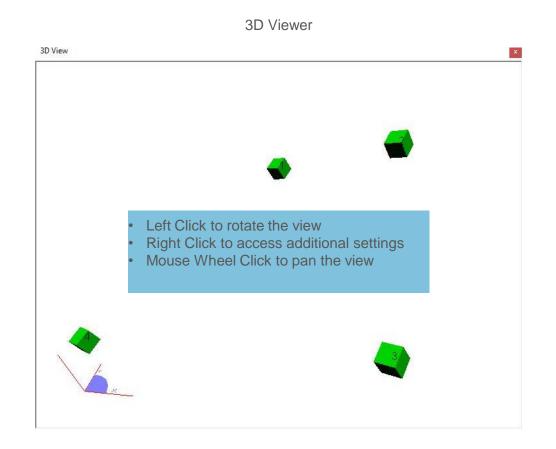


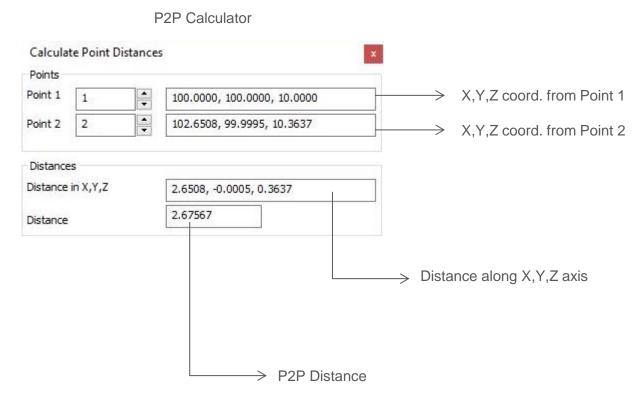




P2P Measurement Process









Free Station

- Free Station function allows the user to relocate with a new set-up and add relevant information to the existing drawing.
- Useful when it is not possible to measure all the required data from a single setup.
- Please ensure good visibility between Leica DISTO[™] device and the points to measure.
- Requires a DST 360 (X3/X4) / DST 360-X (X6) adapter or the Smart Base from the DISTO™ S910 must be folded down.





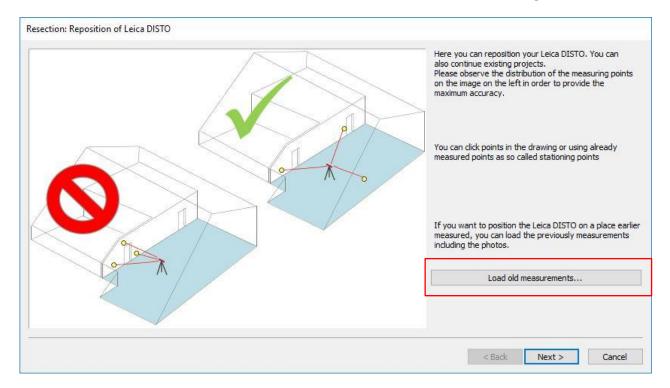




Free Station



- When selecting Free Station function please read carefully the instructions on the screen.
- Select "Load old measurements" to load the reference points.

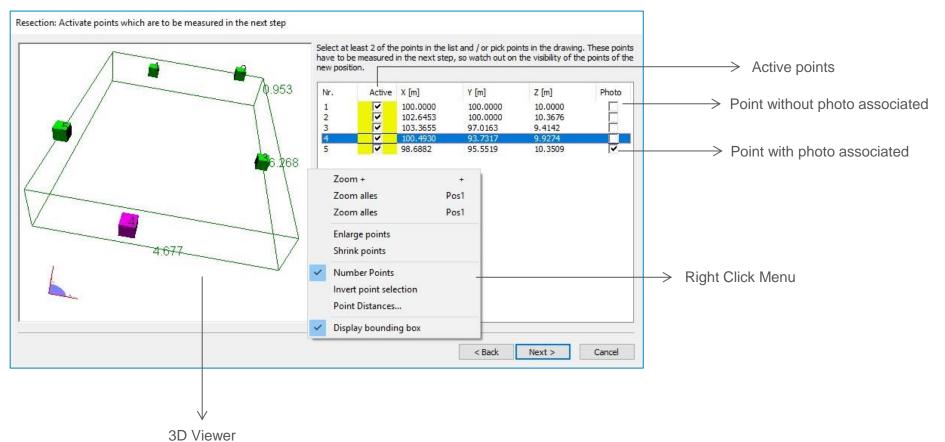




Free Station



Select at least 3 points which you would like to use for your relocation.

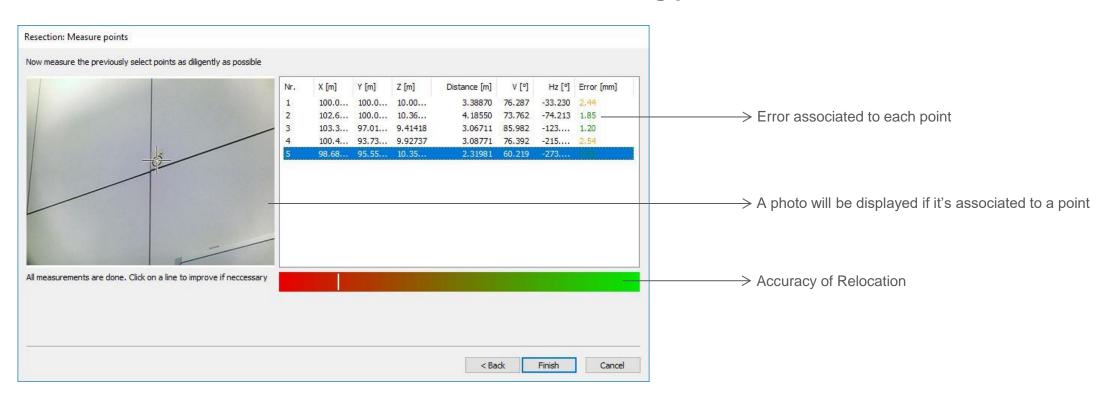




Free Station



Select a line from the table and measure the matching point.





New Set Up

- New Set Up function allows the user to define a new set-up (for example to measure another room) and continue with the measurements without a need to restart the DISTO™ transfer
- Current measurements and coordinate system will be deleted
- Requires a DST 360 (X3/X4) / DST 360-X (X6) adapter or the Smart Base from the DISTO™ S910 must be folded down.





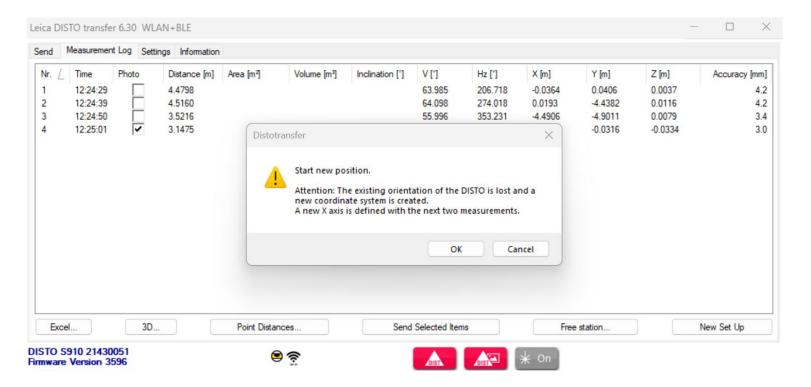




New Set Up



- When selecting New Set Up function a new coordinate system will be created.
- The next 2 measurements define a new X axis.

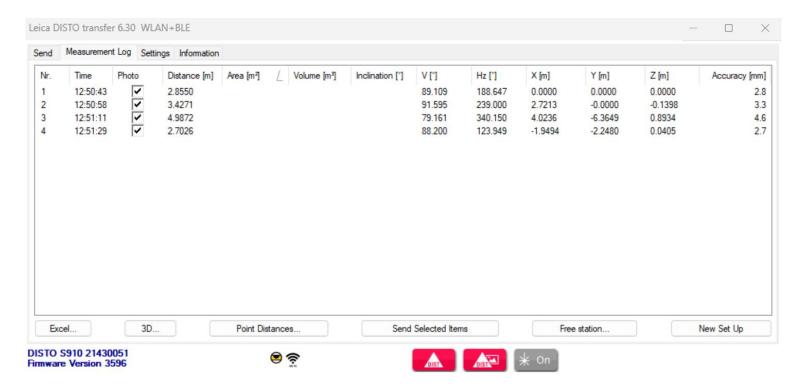




New Set Up



Continue with the measurements in the new set-up





Leica DISTO™ transfer v6 CAD Plugin

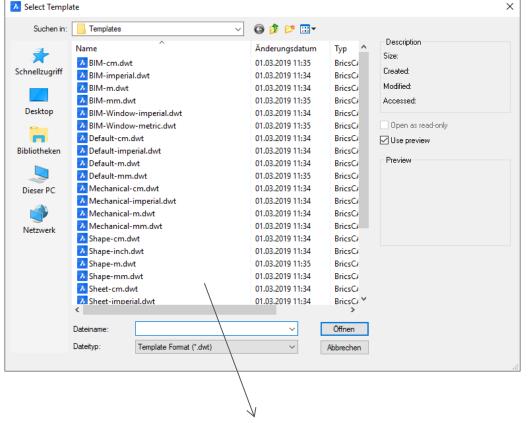


- Set-up your DISTO™ S910 Smart Base folded down and Wi-Fi turned ON
- Alternatively, you can use DISTO™ X3/X4 mounted on DST 360 adapter or X6 on DST 360-X adapter
- Open AutoCAD/BricsCAD → Start a new drawing and ensure that your CAD drawing has got the correct Unit system
- Make sure the DISTO™ transfer has been installed after your CAD installation or manually start
 the DISTO™ transfer before using it as a Plugin
 - 1) AutoCAD LT not supported
 - 2) compatible with AutoCAD 2017 or higher
 - 3) compatible with BricsCAD V22 or higher

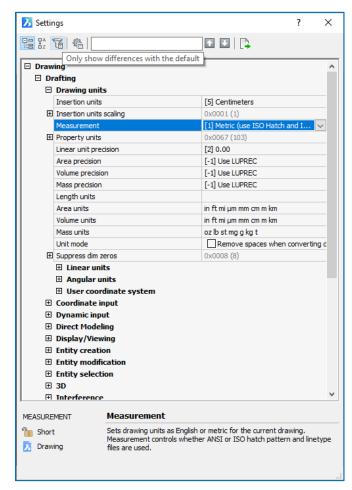




CAD Plugin



Star a new drawing by selecting an existing CAD template



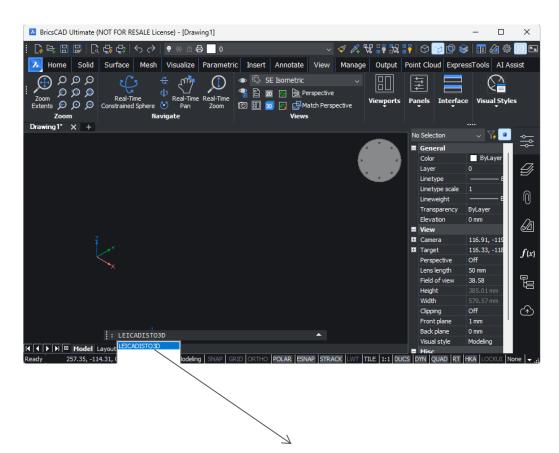


- Adjust Unit system:
- 1) Toolbar
- 2) Settings
- 3) Drawing / Drafting / Drawing units
- 4) Set your preferred Unit System



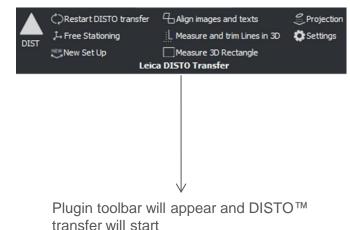
Leica DISTOTM transfer v6 CAD Plugin







The plugin starts automatically



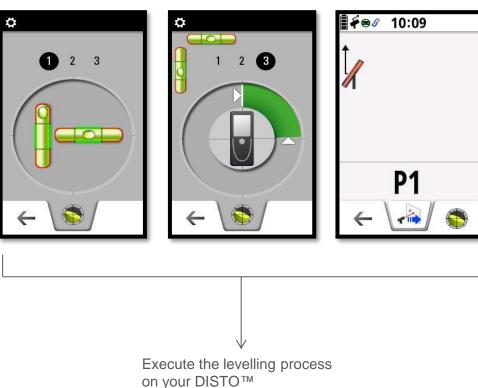
To start the plugin, enter LEICADISTO3D into the command line



Leica DISTO™ transfer v6 CAD Plugin



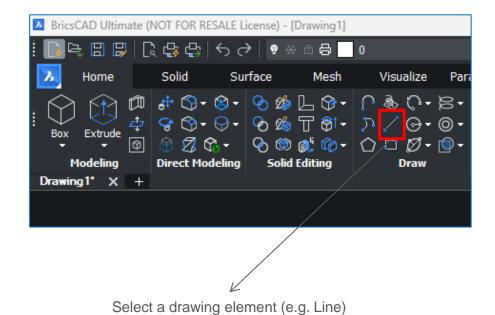


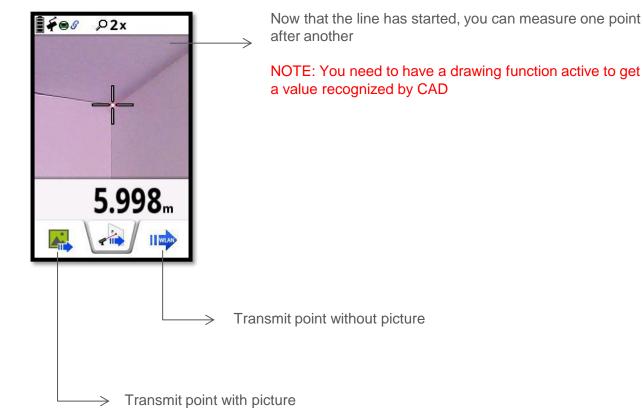




Leica DISTO™ transfer v6 CAD Plugin

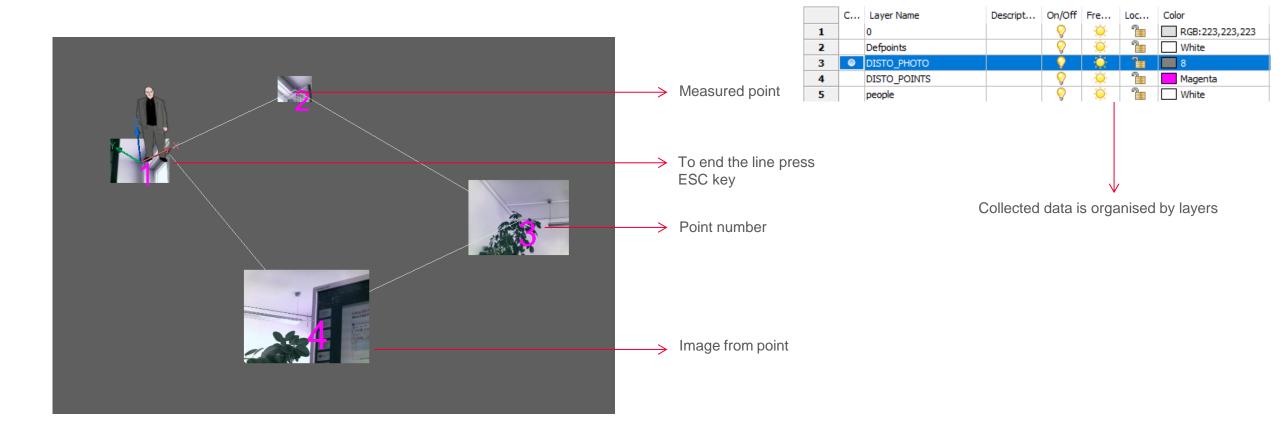






Leica DISTOTM transfer v6 CAD Plugin







Leica DISTO™ transfer v6 CAD Plugin





Restarts DISTO™ transfer Align images and texts Projection

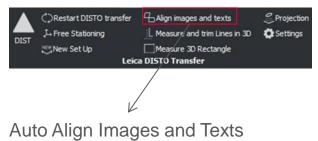
Free Station Measure and trim Lines Settings for Text and Images

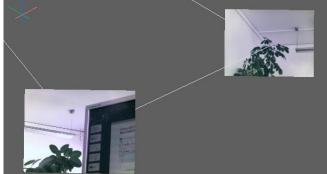
New Set Up Measure 3D Rectangle



Leica DISTOTM transfer v6 CAD Plugin

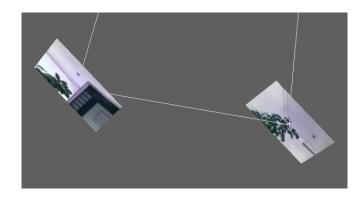


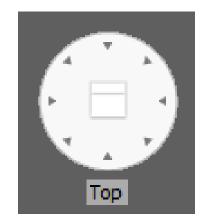






Default view (Images are aligned)





 When the view is changed, the Images are no longer aligned

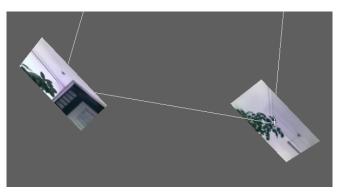


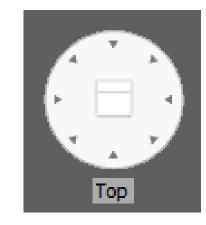
Leica DISTOTM transfer v6 CAD Plugin



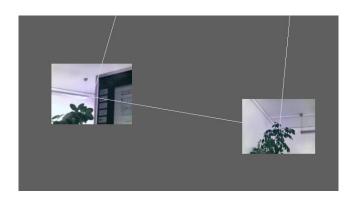








- Press Align images and texts button and select one of the following options:
- 1) All
- 2) Individual Image



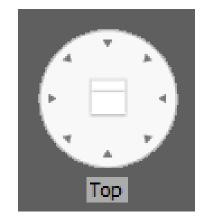


 Image and Text are now aligned with the current view



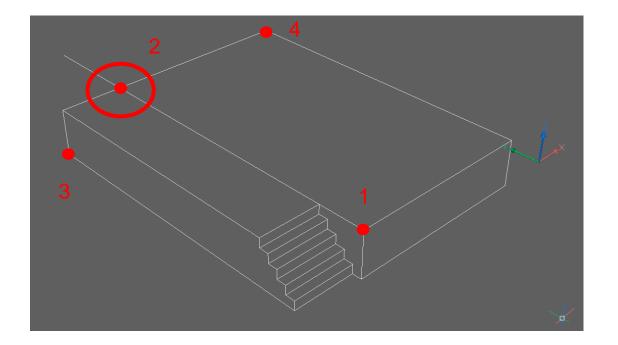
CAD Plugin





Measure and trim Lines in 3D

Start the Trim function in the toolbar and measure <u>two points</u> from the first line and then <u>two points</u> from the second line



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



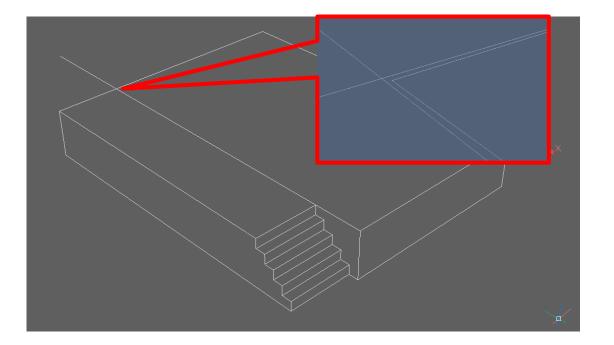
CAD Plugin





Measure and trim Lines in 3D

Press Enter to quit function and type in "yes" to draw the remaining element

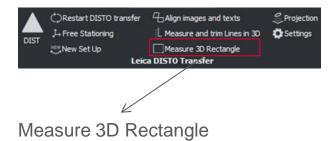


The line section was calculated and inserted within the drawing as TWO NEW lines at the closest point that they would meet

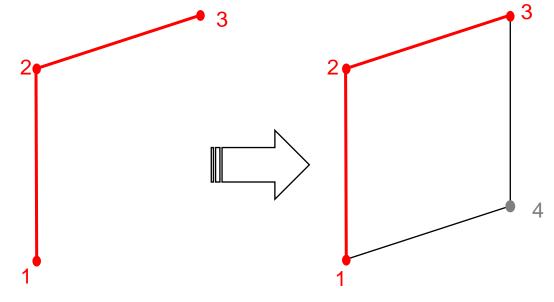


Leica DISTOTM transfer v6 CAD Plugin





Measure three points to create a rectangle in 3D space



Automatically drawn lines and remaining point is added

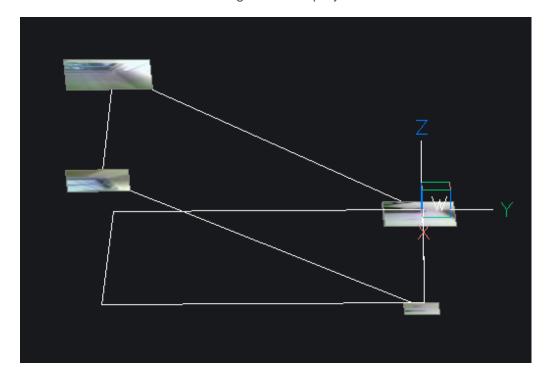


CAD Plugin





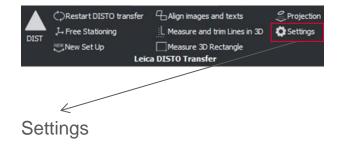
Start the Projection function in the toolbar and select points that should be projected. Points from various measured heights will be projected onto a common horizontal plane.





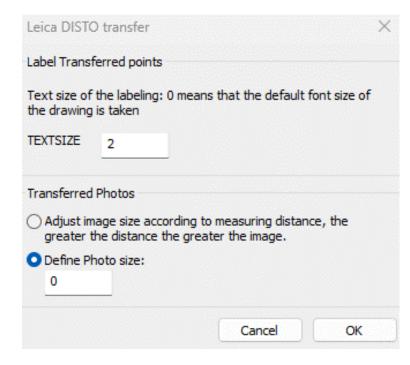
CAD Plugin





Adjust the text and image size

TEXTSIZE is a relative value, that matches your drawing settings

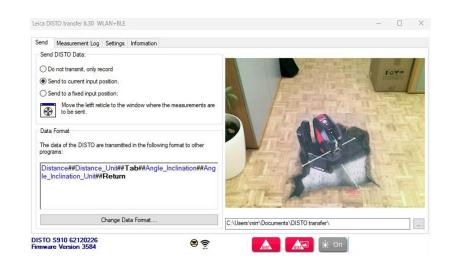


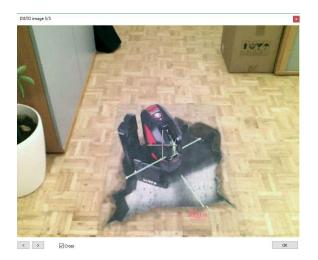


Leica DISTO™ transfer v6 CAD Plugin

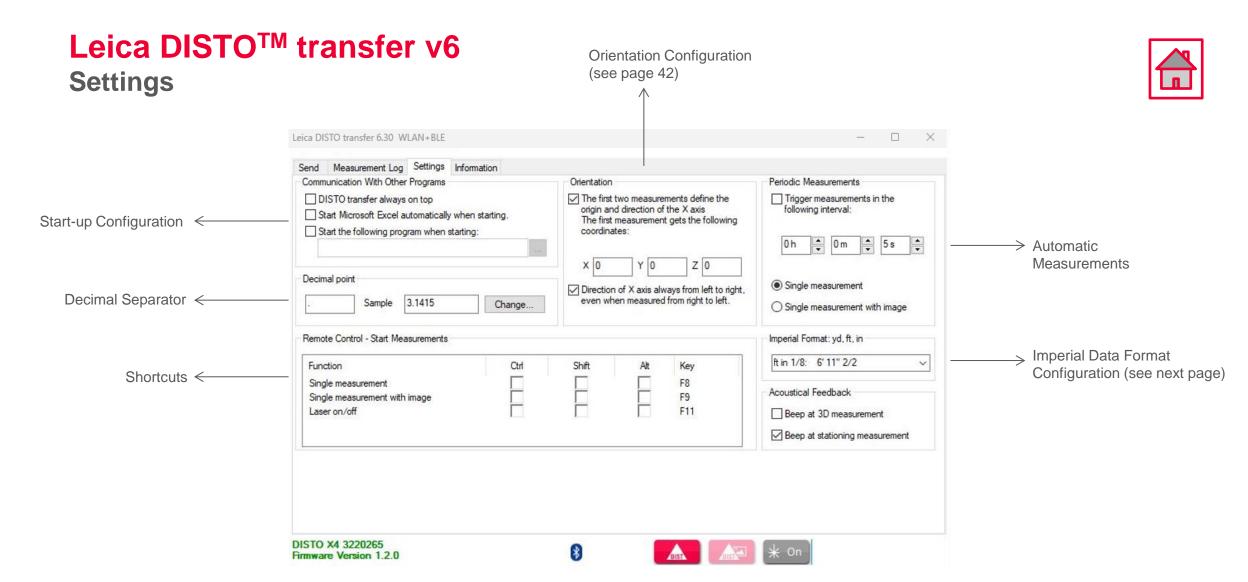


- Images transferred from the DISTO™ S910 into the drawing will be stored within the same directory as the drawing
- Captured images are displayed on DISTO™ transfer as well and saved on the Data directory
- Line functions and trimming is only available if the correct layer is selected
- Explanations regarding a function, are always within the command line











Leica DISTOTM transfer v6Settings



Imperial Data Format Configuration

Diatanaa I laitaataa

ft in 1/4: 3' 5" 3/4
ft in 1/32: 3' 5" 7/8
ft in 1/16: 3' 5" 7/8
ft in 1/8: 3' 5" 7/8
ft in 1/4: 3' 5" 3/4
ft.decimal: 3.4890 ft
in.decimal: 41.868 in
yd.decimal: 1.1630 yd
ft in 1/32: 3' 5" 7/8
ft in 1/16: 3' 5" 7/8
ft in 1/8: 3' 5" 7/8
ft in 1/4: 3' 5" 3/4
ft.decimal: 3.4890
in.decimal: 41.868
yd.decimal: 1.1630

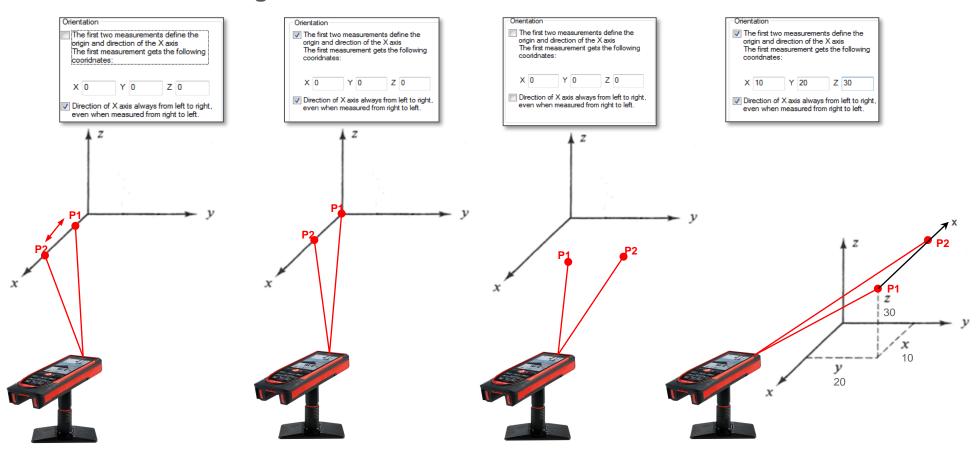
Distance Unit set on DISTO™ device	Imperial Format set on DISTO™ transfer	Transmitted result
	ft in 1/32: 3' 5" 7/8	3' 5" 7/8
	ft in 1/16: 3' 5" 7/8	3' 5" 7/8
	ft in 1/8: 3' 5" 7/8	3' 5" 7/8
	ft in 1/4: 3' 5" 3/4	3' 5" 3/4
	ft.decimal: 3.4890 ft	3.4890 ft
	in.decimal: 41.868 in	41.868 in
0 1/8in	yd.decimal: 1.1630 yd	1.1630 yd
	ft in 1/32: 3' 5" 7/8	3' 5" 7/8
	ft in 1/16: 3' 5" 7/8	3' 5" 7/8
	ft in 1/8: 3' 5" 7/8	3' 5" 7/8
	ft in 1/4: 3' 5" 3/4	3' 5" 3/4
	in.decimal: 41.868	3.489
	in.decimal: 41.868	41.868
	yd.decimal: 1.1630	1.163



Settings



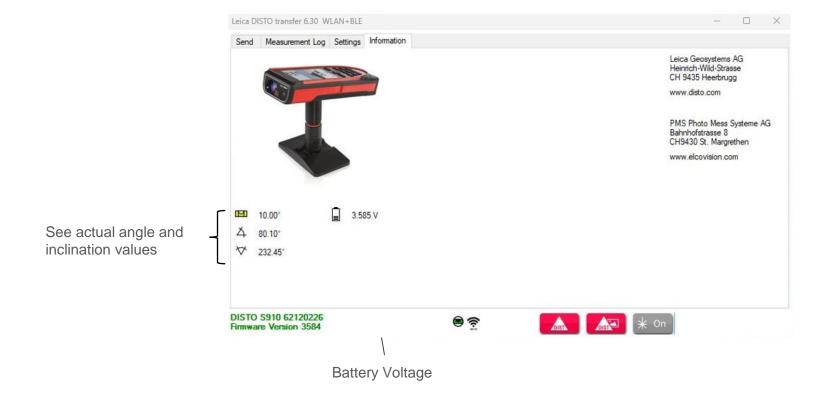
Orientation Configuration





Good to Know

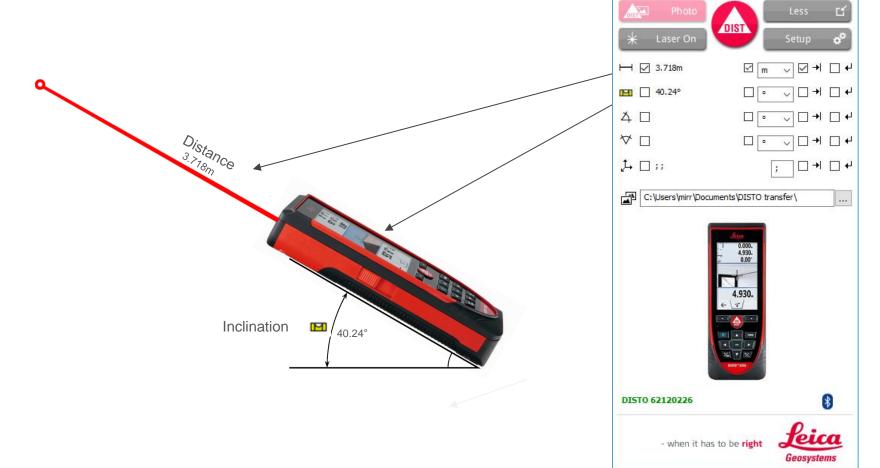






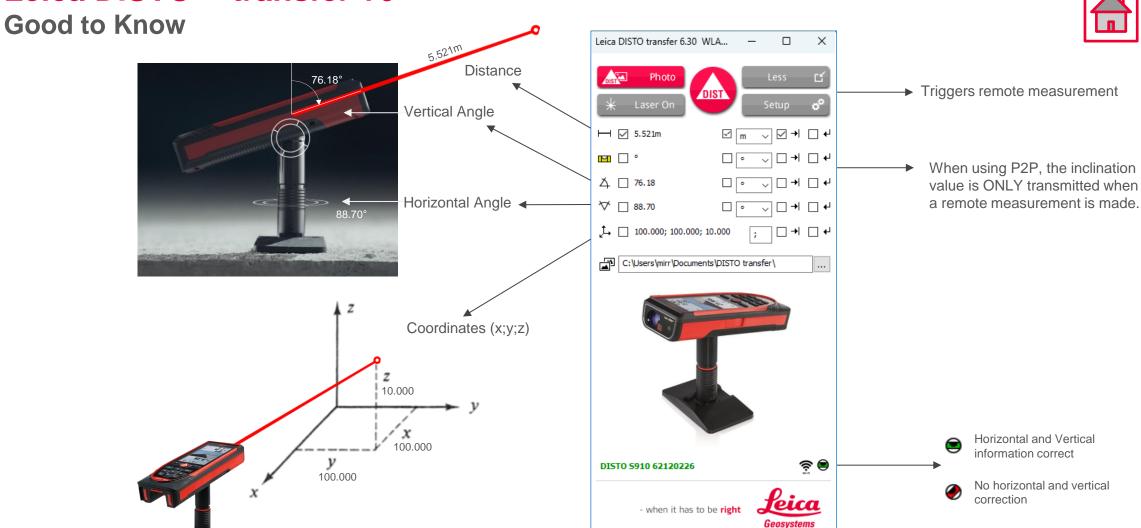
Good to Know





Leica DISTO transfer 6.30 WLA...







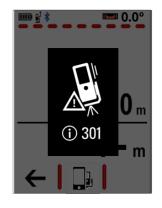
Good to Know

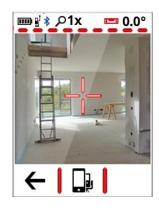
Access the Main Menu screen and select P2P with Levelling function. Proceed with the levelling steps

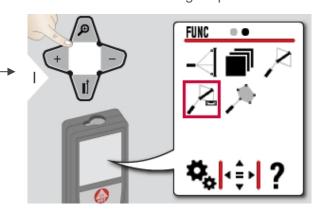
When using a DISTO™ X3 / X4 together with a DST 360 adapter and X6 with

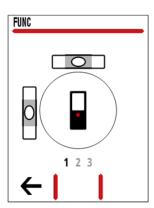
DST 360-X adapter, the loss of level is detected



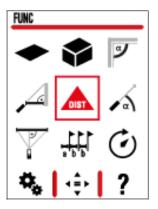








Once the levelling is completed, access Single Measurement function and aim to the desired location.



Complete the measurement action, by pressing DIST button on <u>DISTO transfer</u>



The DISTO™ is now back to the original mode

