



3D Disto Software
for Windows®

Leica 3D Disto

Tutorial

«Measure» application



- when it has to be **right**

Leica
Geosystems

Leica 3D Disto

Tutorial

This is a quick guide for the Leica 3D Disto's "Measure" application.

- Setup
- Measurements
- Hidden point tools 1 & 2
- Relocation
- Scans
- Save & Export
- myWorld

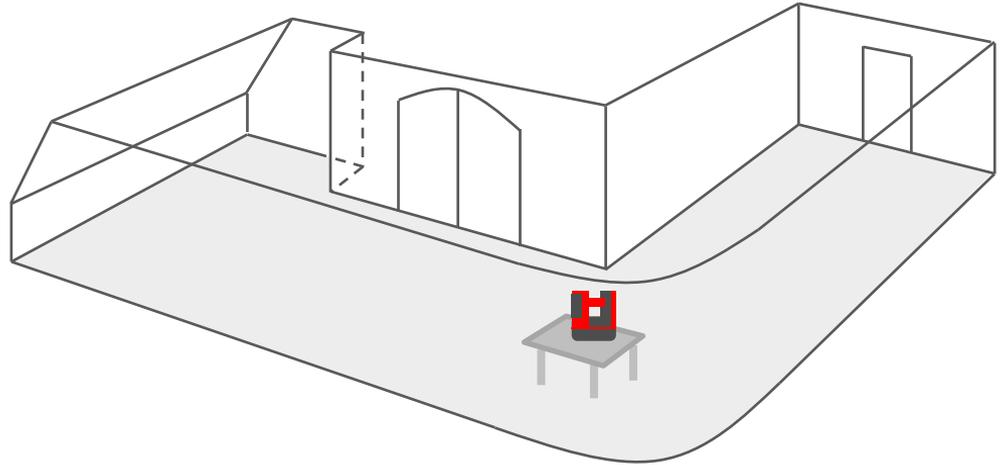


Leica 3D Disto

Setup

- Put the 3D Disto on a stable underground or tripod & switch ON.
- Connect with a Windows device (Laptop, Tablet PC,) via USB cable or Wifi

→ See the “First Steps” tutorial if you are not familiar with the 3D Disto’s basic functionality.

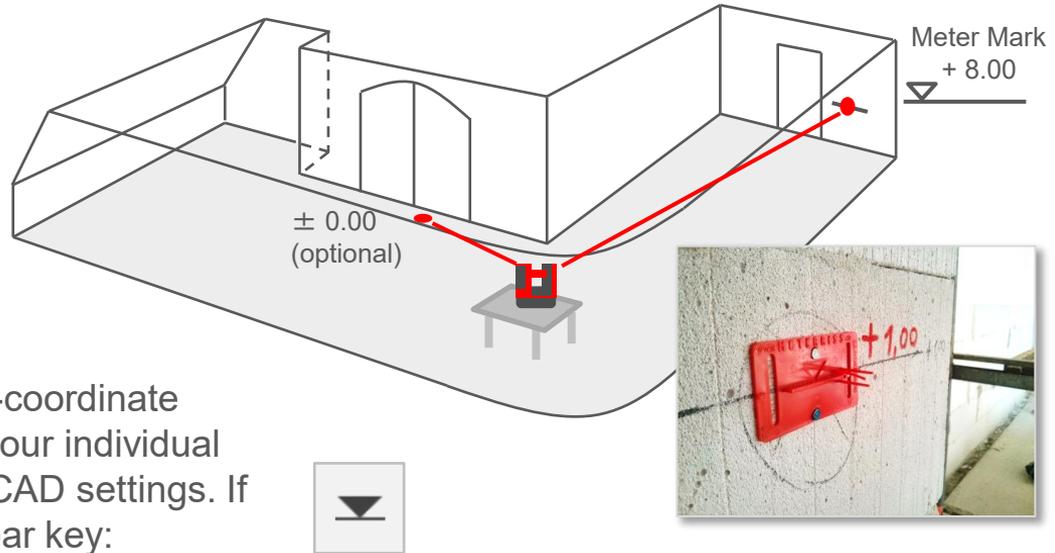


Leica 3D Disto

Measurements

Enter and measure reference height [m]:

0			
7	8	9	C
4	5	6	
1	2	3	
±	0	.	
OK	Cancel		

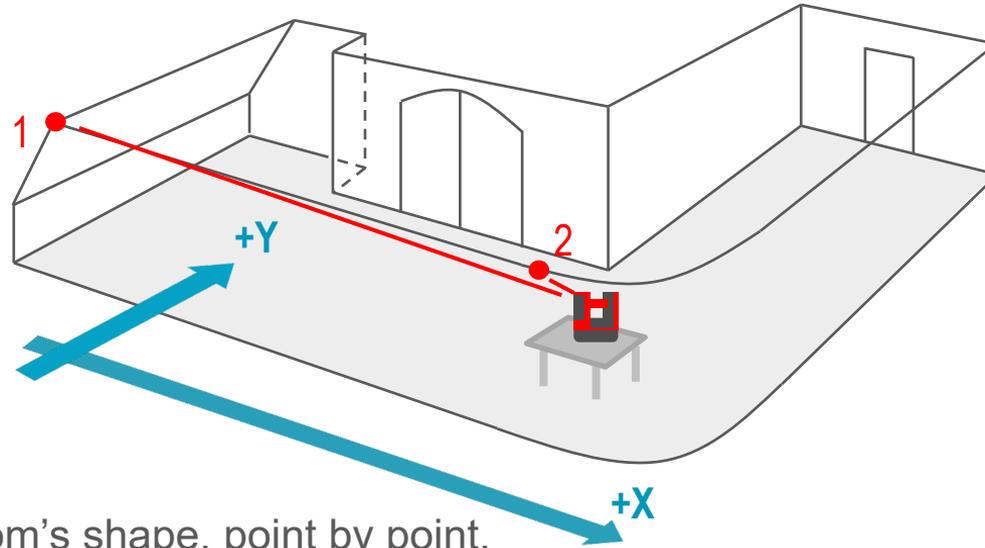


Reference height

A reference height matches the z-coordinate (=height) to the building data, to your individual expectations or to your favourite CAD settings. If you want to use it, press the toolbar key:

- If there is a meter mark in the room, enter the value and measure it
- Enter and measure an other point optionally, e. g. the floor level = "0.000"

Leica 3D Disto Measurements

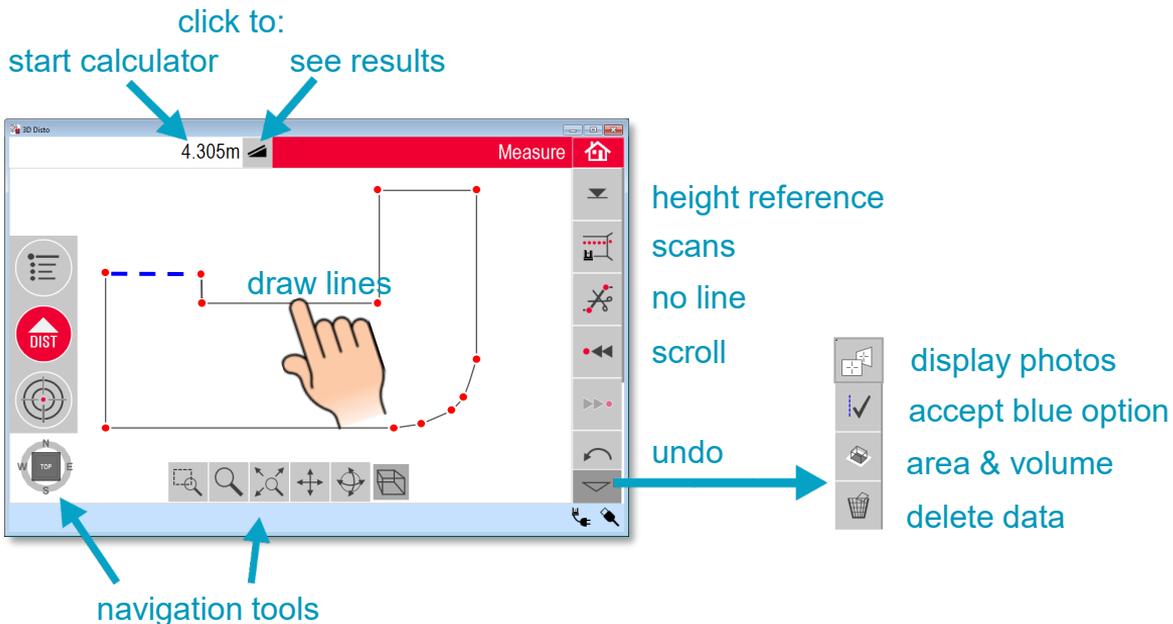


- Now measure the room's shape, point by point. Advanced users start with a long line, regarding the fact that point #1 and #2 define the coordinate system.

Leica 3D Disto

Measurements

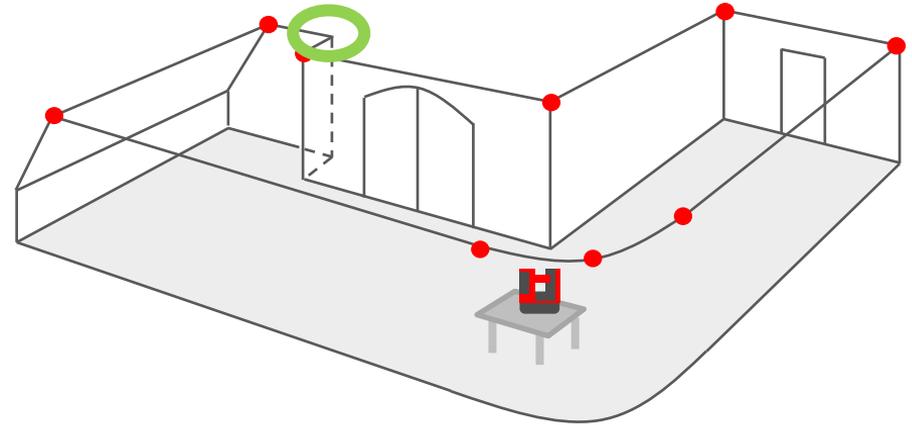
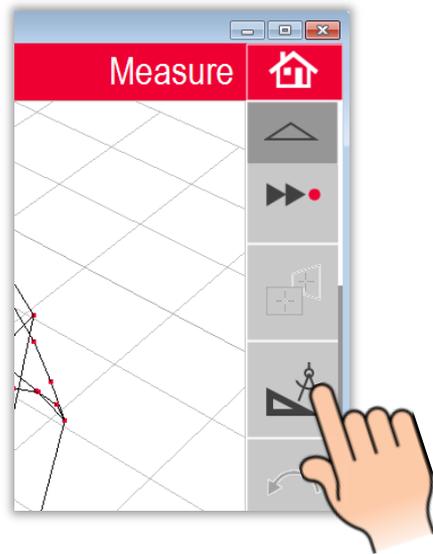
Edit the sketch on your 3D Disto to get a proper result.
It is your decision to do the details here or later with CAD.



Leica 3D Disto

Hidden Point tools (1)

Hidden points?
You have two options.



Option 1: CAD tools

- start CAD tools in the toolbar

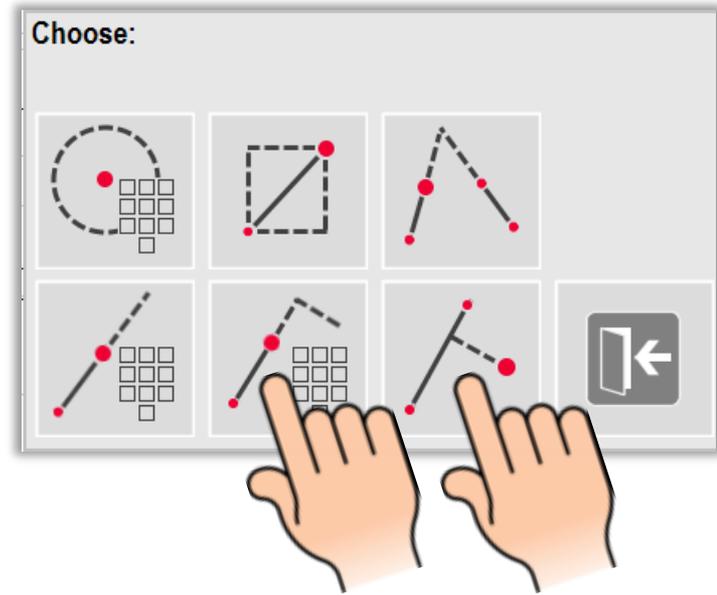
Leica 3D Disto

Hidden Point tools (1)

Option 1: CAD tools

Select a tool from the list:

- “Point shift” creates arbitrary points
- “Perpendicular intersection” is a quick 90° tool



→ See the tutorial “CAD tools” for details

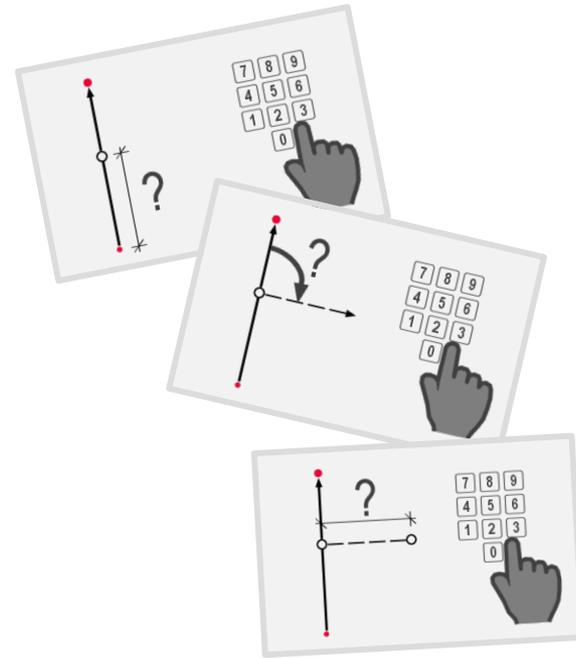
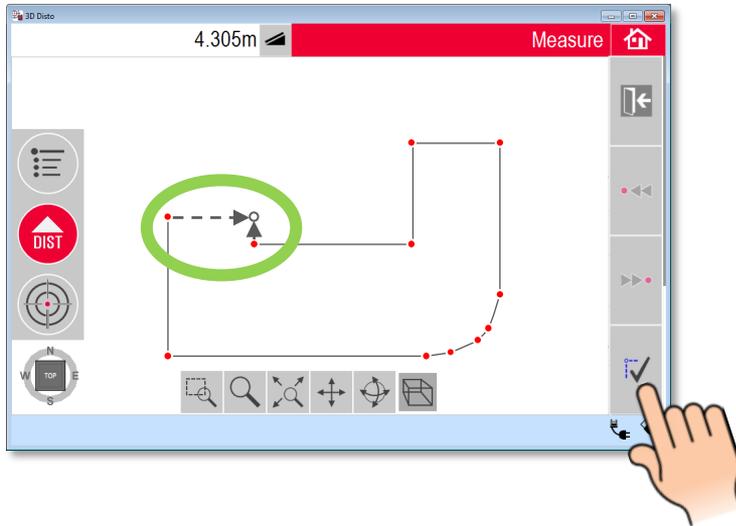
Leica 3D Disto

Hidden Point tools (1)

Option 1: CAD tools

- follow the assistants
- finish via checkmark

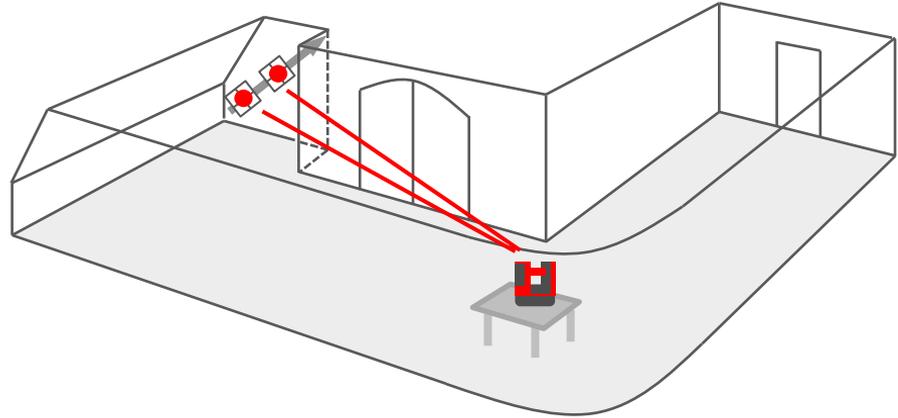
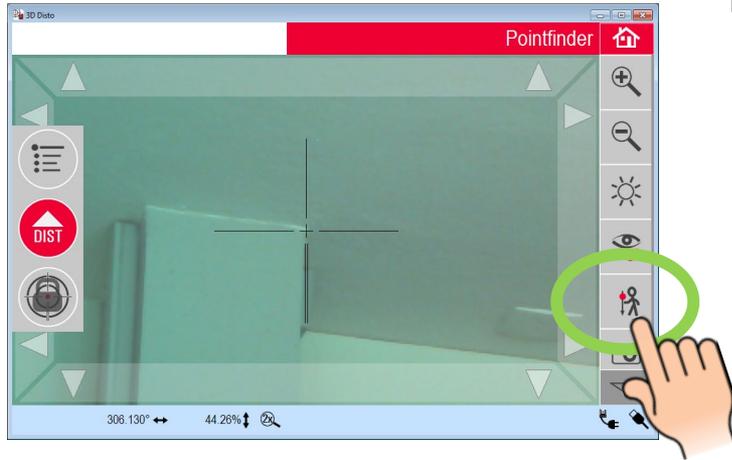
Done!



→ See the tutorial “CAD tools” for details”

Leica 3D Disto

Hidden Point tools (2)



Option 2: Offset tools

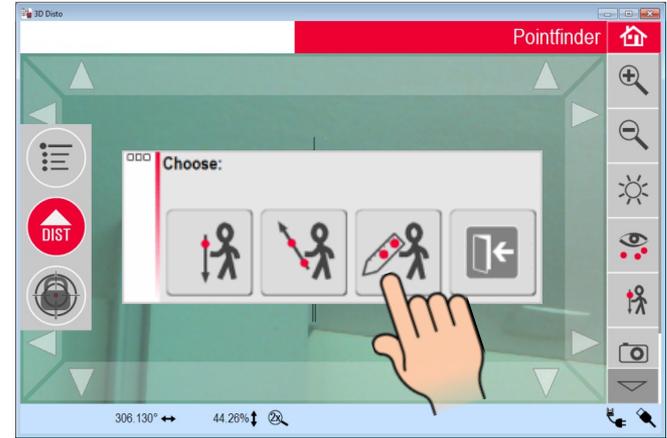
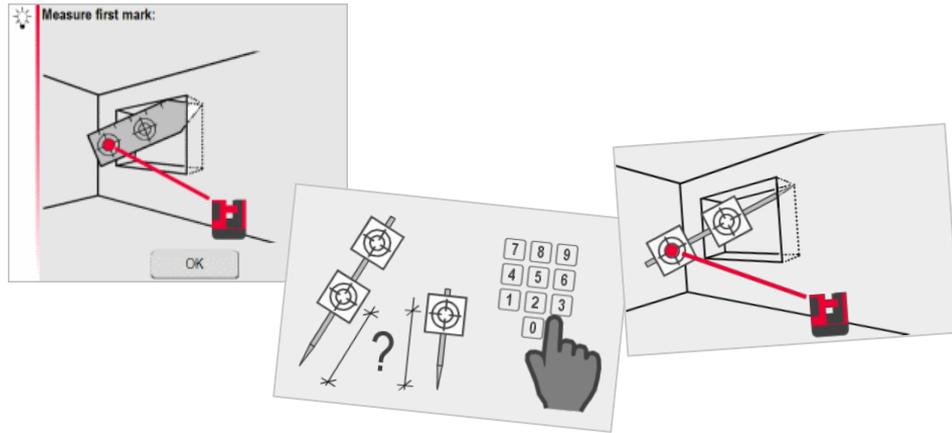
- Press key in the Pointfinder's tool bar

Leica 3D Disto

Hidden Point tools (2)

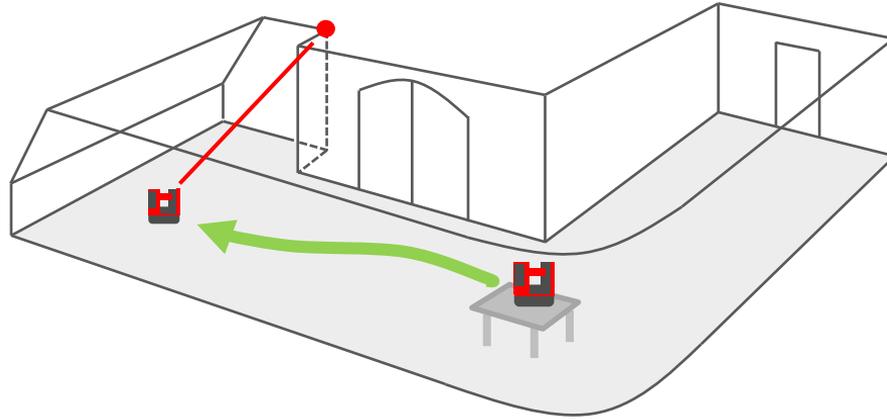
Option 2: Offset tools

- Select a tool
- Follow the assistant and measure



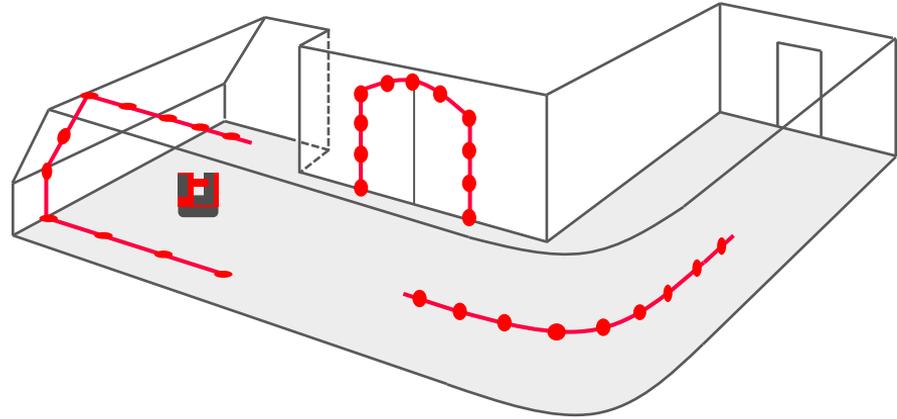
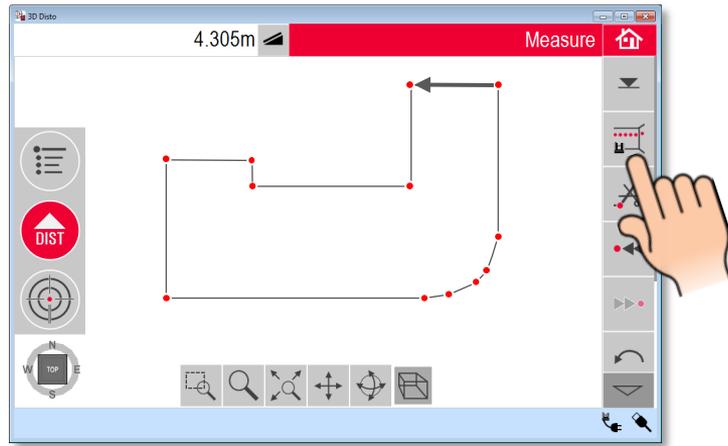
Leica 3D Disto

Relocation



Optionally you can change the 3D Disto's position to measure hidden points or parts of the room. "Relocation" is a guided application, offered in the menu. Find details in the "Relocation" tutorial.

Leica 3D Disto Scans

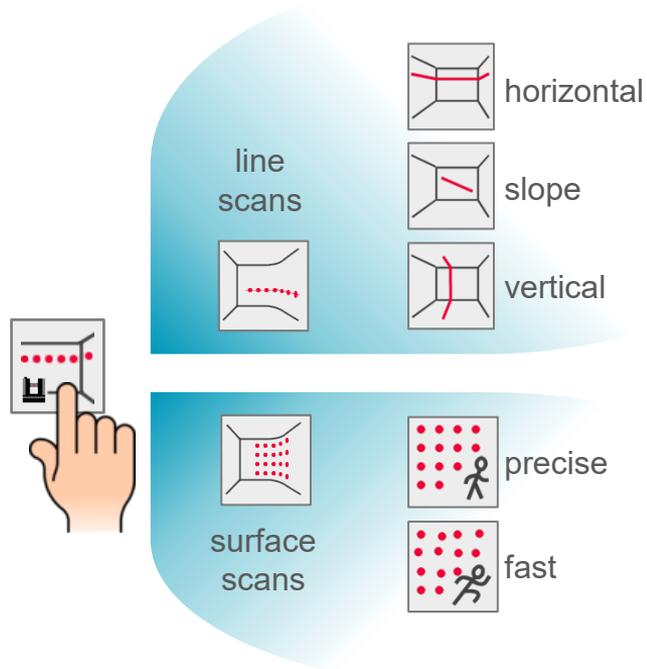


Scanning is one of the 3D Disto's most powerful features.

- Press SCAN key

Leica 3D Disto

Scans



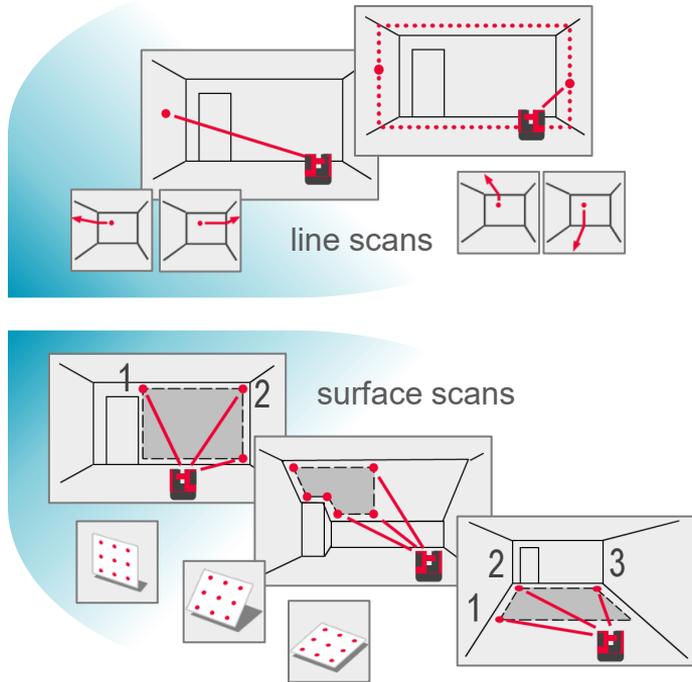
Step 1:

Select the preferred scan with a few clicks:

- Line scans for kitchen, glass, doors, metal works...
- Surface scans to measure flatness, shape or deformation of ships & boats, floors, ceilings, walls, screens, metal sheets...

Leica 3D Disto

Scans



Step 2:

Choose further options and follow the assistants to define scan properties.

- Line scans require start point, scan end etc.
- Surface scans need an area definition

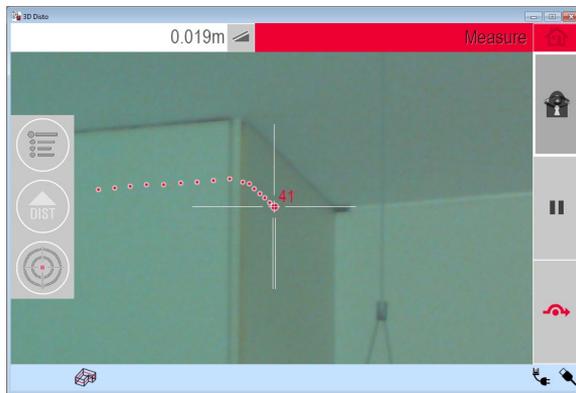
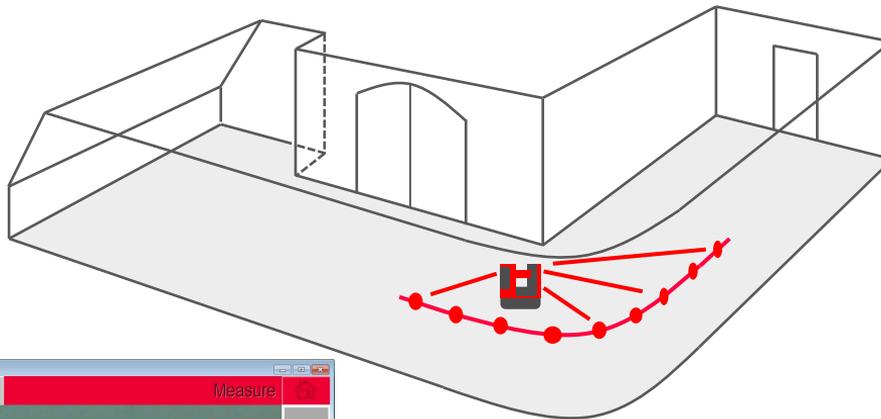
Leica 3D Disto

Scans

Step 3:

Scanning.

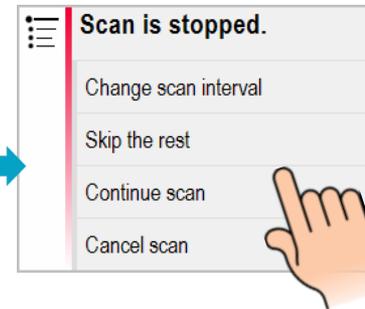
Pilot the scan if necessary via toolbar keys:



cam on/off

break →

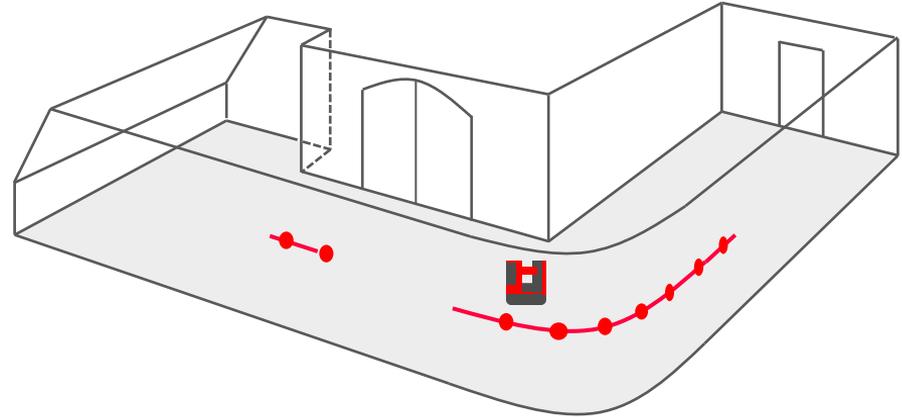
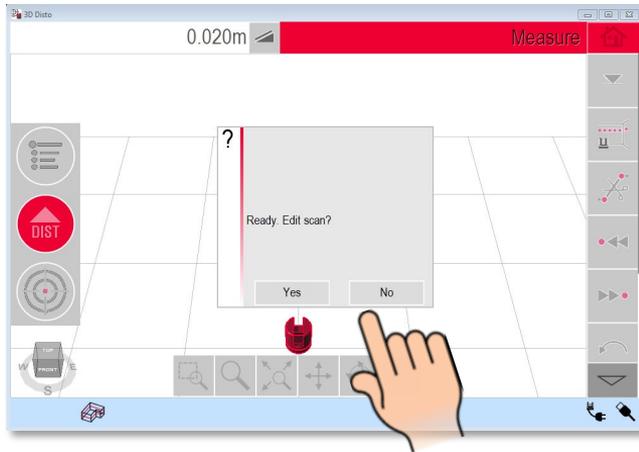
skip a scan point



- when it has to be **right**

Leica 3D Disto

Scans



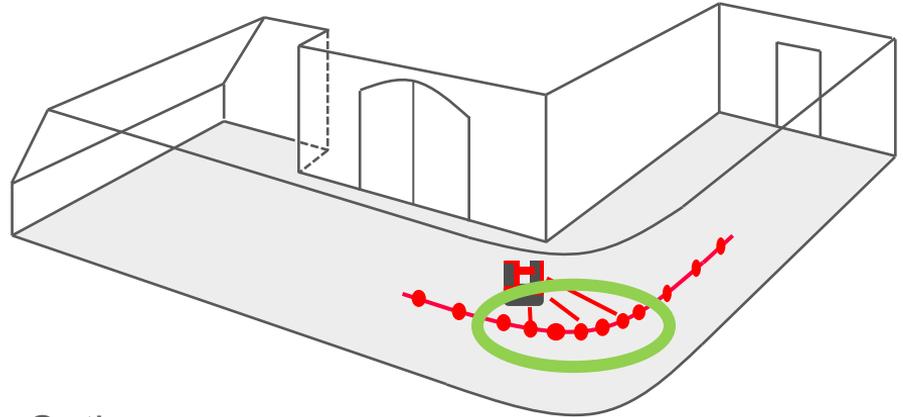
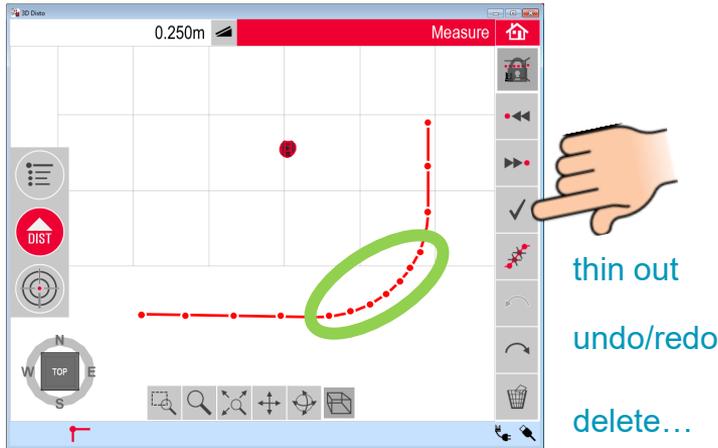
Step 4:

Editing the scan

- If the scan needs edits press OK key
- Press NO to accept it like it is.

Leica 3D Disto Scans

Step 4:
Editing the scan
(optional)



Options:

- Measure missing points
- Delete points manually or via automatic THIN OUT function
- Press checkmark to finish the scan.

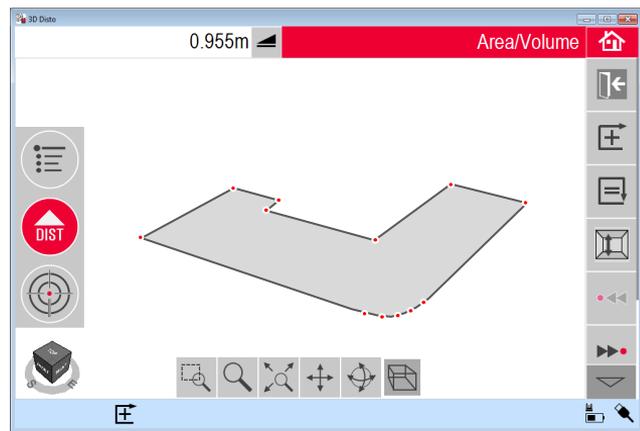
Leica 3D Disto

Area & Volume

Step 5:

Start the Area application

(optional)

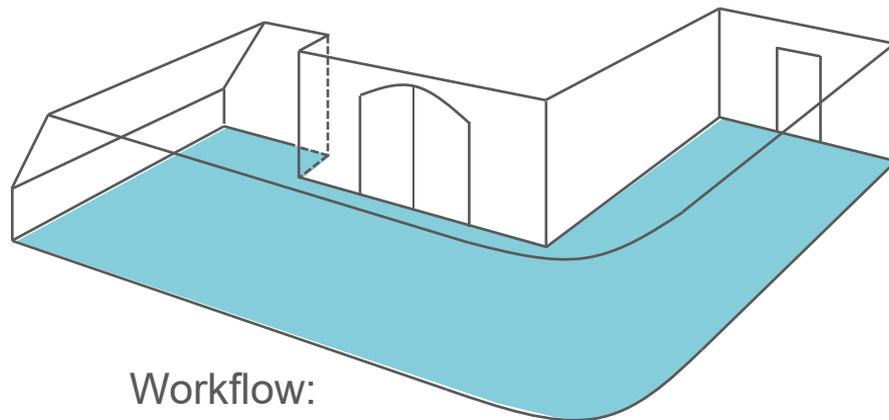


Quit Area

Add line

Finish

Volume

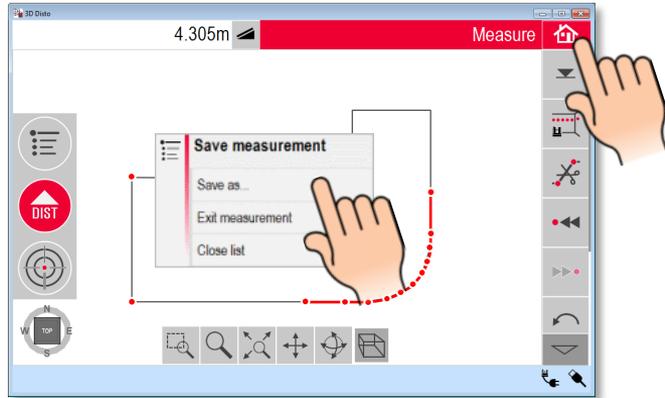


Workflow:

- Generate the outline via Add key. Finally press Finish key.
- Area and other results are displayed
- Press Volume key to enter or measure the height of the room

Leica 3D Disto

Save & export



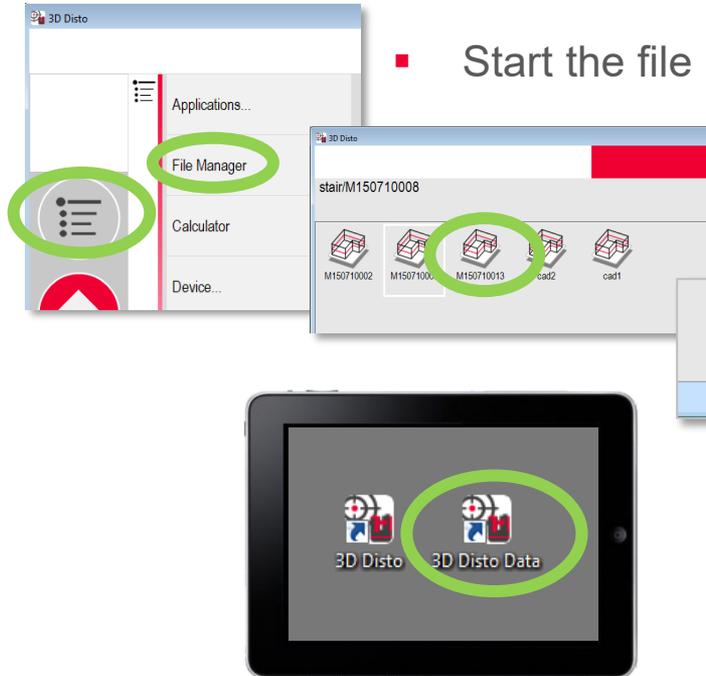
Step 6:

Press the HOME key at any time to save the measurement

- Press “Save as...”
- Tip on an existing folder or create a new one
- Press checkmark to save the measurement

Leica 3D Disto

Save & export



- Start the file manager.

- Select a file or a folder.

- Press export key.

Now you find the export files in the 3D Disto Data folder on your desktop.

Leica 3D Disto

Registration at myWorld

Register your 3D Disto on myWorld for:

- warranty extension
- license keys
- more tutorials
- free software updates
- support
- manuals

www.myworld.leica-geosystems.com

