



# Leica 3D Disto

## Room Scan application

Version 3.0

- when it has to be **right**

**Leica**  
Geosystems

# Leica 3D Disto

## Room Scan

This is a quick guide for the Leica 3D Disto's Room Scan application.

- Setup
- Measurements
- Hidden point tools
- Unfold mode
- Scans
- Export
- Advanced

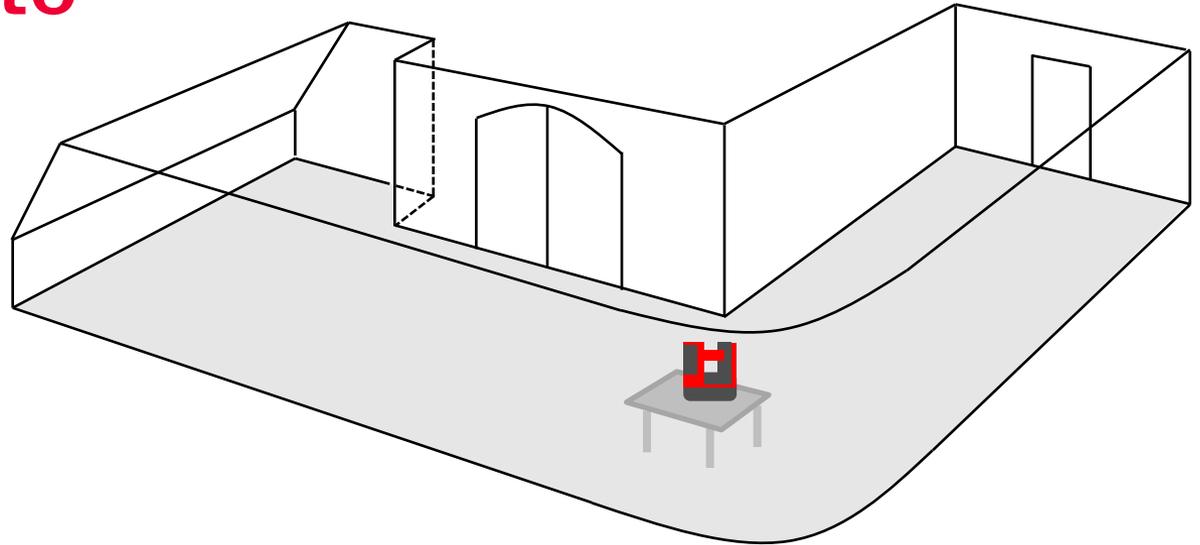


The workflows in this tutorial require software versions >3.0

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# Leica 3D Disto

## Setup



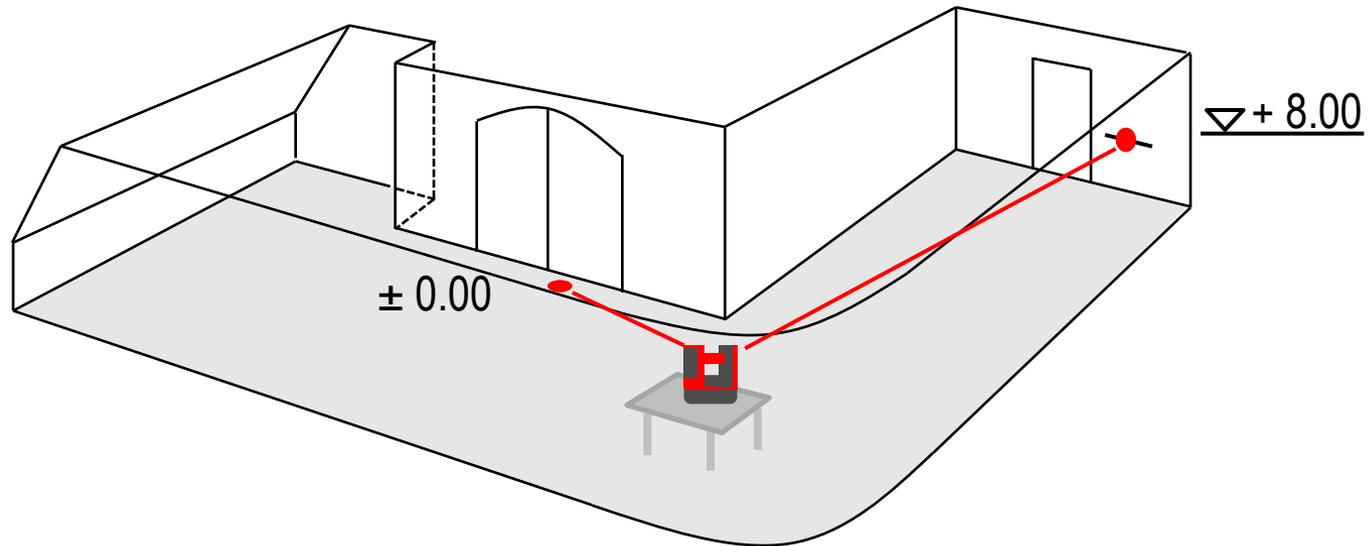
- Put the 3D Disto on a stable underground or tripod & switch ON.
- Connect with Control Unit (Laptop, Tablet PC, ....) via USB cable or Wifi

If you are not familiar with the 3D Disto's basic functionality have a look at the "First Steps" tutorial.

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# Leica 3D Disto

## Measurements

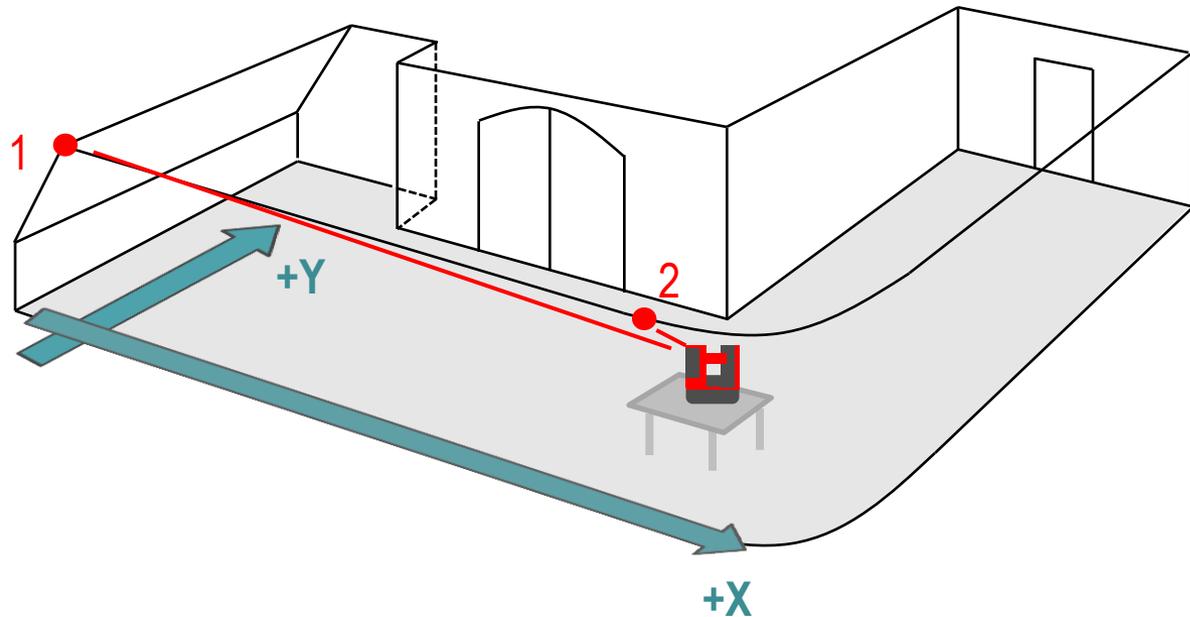


- Start Room Scan application in the menu. A popup prompts to enter and measure a reference height. This adapts the z-coordinate (=heights) to your individual expectations and to your favorite CAD settings
- If there is a meter mark in the room, enter the value and measure it
- No meter mark? Set a representative spot to "0.00", e. g. a point on the floor. If you want to avoid negative heights set it to "+1.00" or higher

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# 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.

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# Leica 3D Disto

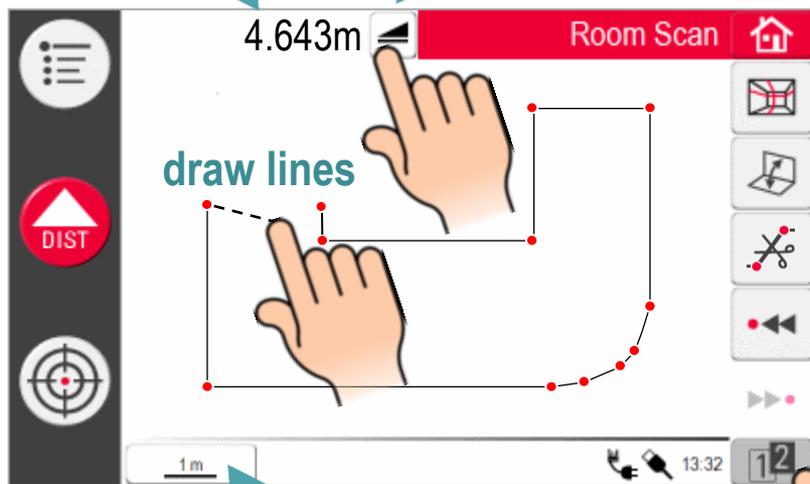
## Measurements

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.

click to

start calculator

check results



draw lines

no line drawing

scroll

finish a shape

undo/redo last step

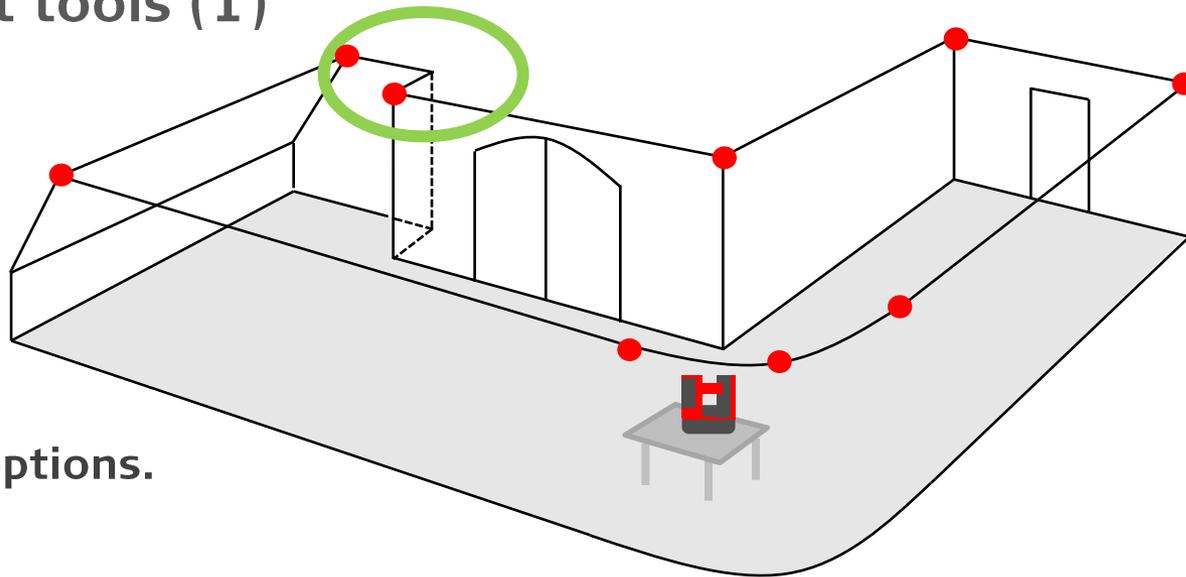
delete data

scale & zoom

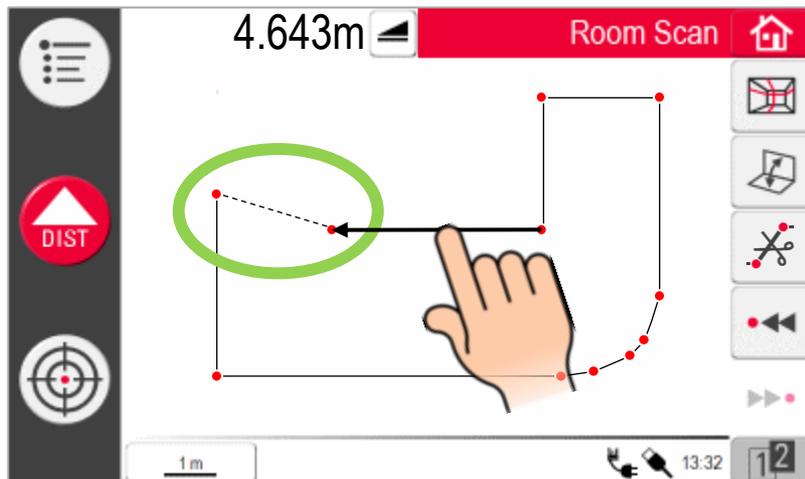
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# Leica 3D Disto

## Hidden Point tools (1)



Hidden points?  
You have two options.



### Option 1: Simplified CAD tools:

- make a long press on a line to see the tools

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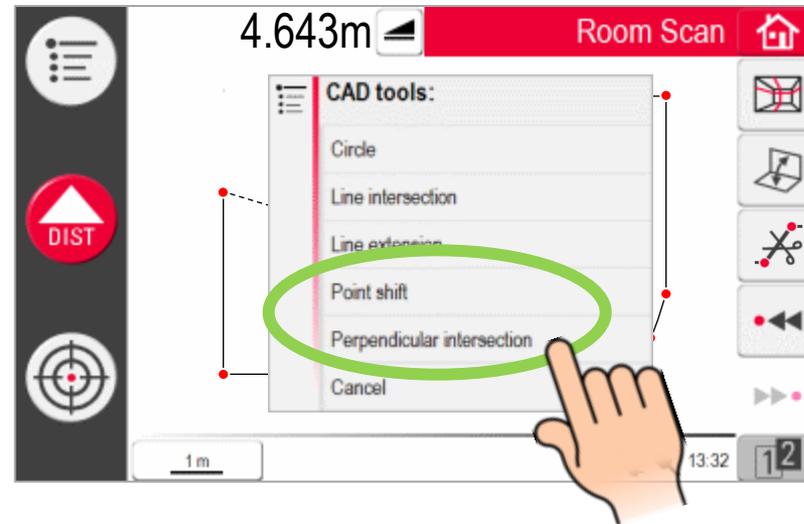
# Leica 3D Disto

## Hidden Point tools (1)

### Option 1: Simplified CAD tools

- select a tool from the list:  
“point shift” manages all corners you can imagine  
“perpendicular intersection” is a quick 90° tool

Find details in the  
3D Disto tutorial  
“CAD tools”



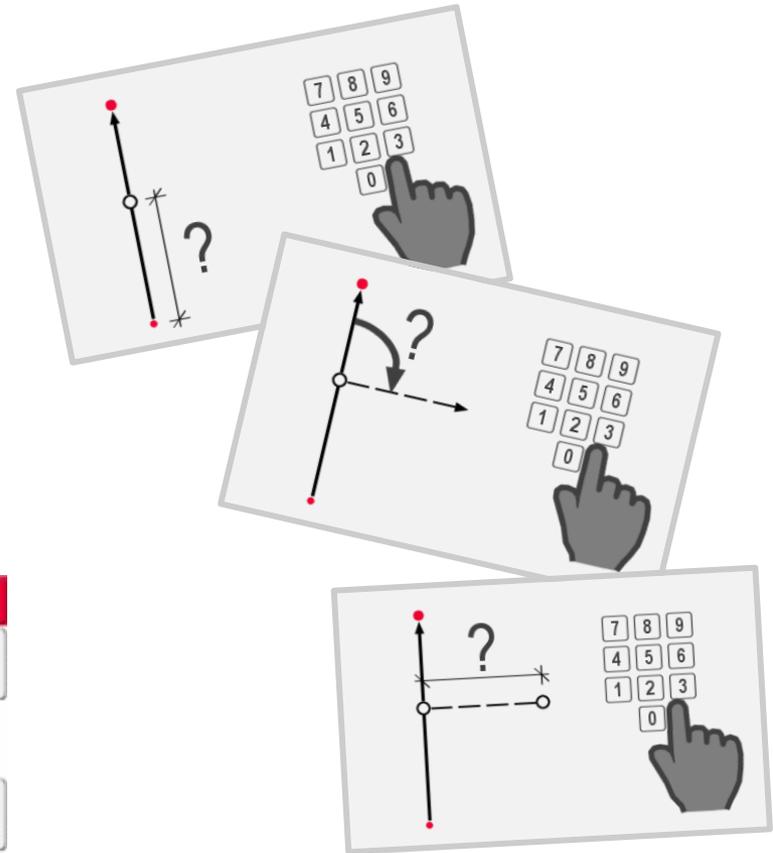
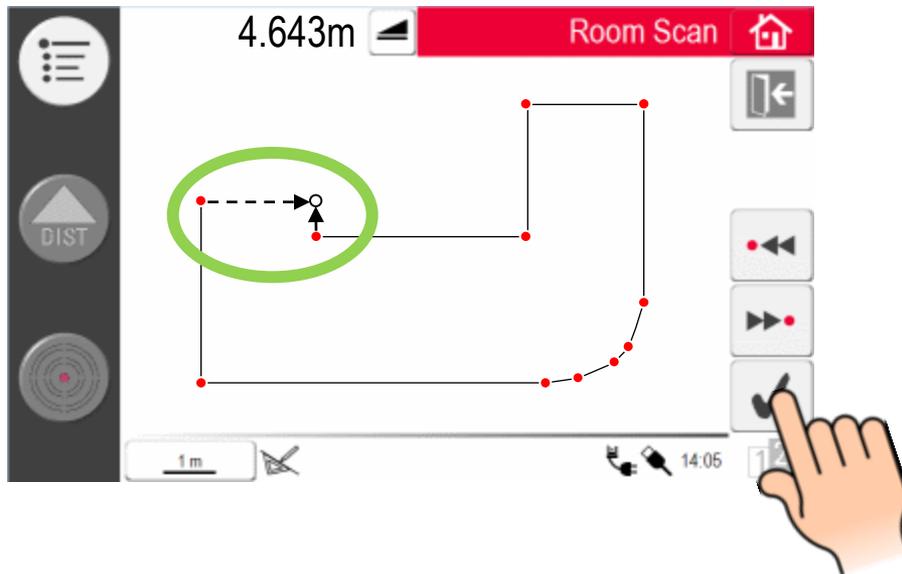
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# Leica 3D Disto

## Hidden Point tools (1)

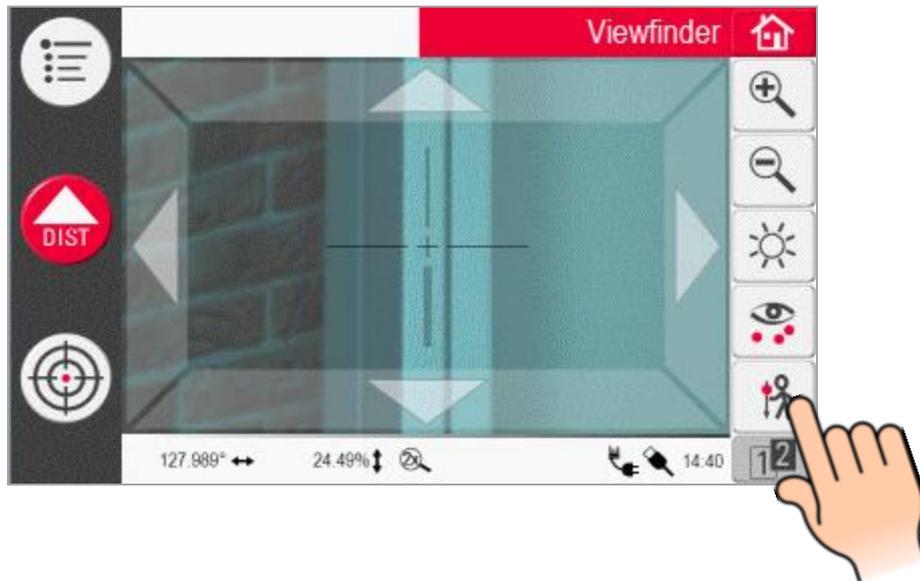
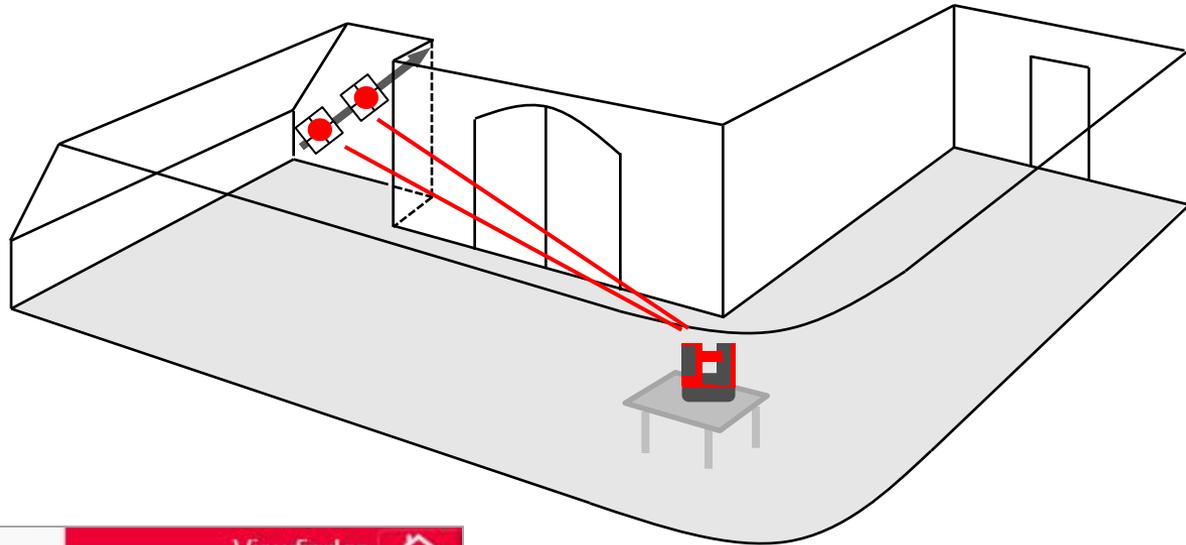
### Option 1: Simplified CAD tools

- follow the assistant popups and
- finish via checkmark



# Leica 3D Disto

## Hidden Point tools (2)



### Option 2: Offset tools

- Press key in the Viewfinder's tool bar

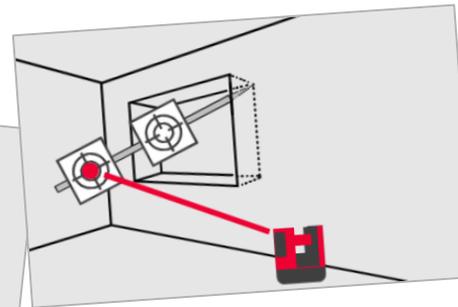
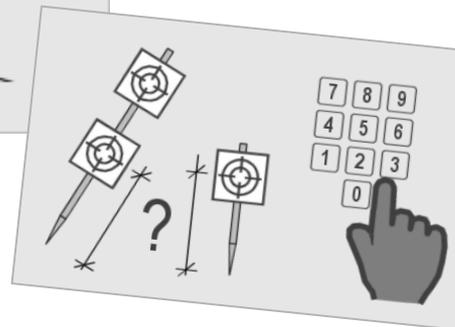
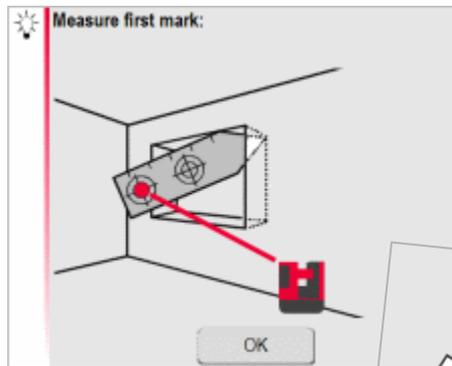
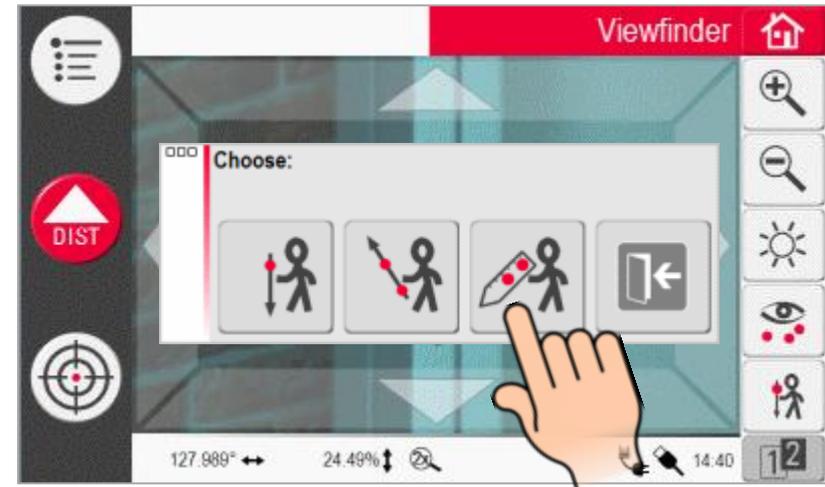
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# Leica 3D Disto

## Hidden Point tools (2)

### Option 2: Offset tools

- Select a tool
- Follow the assistant popups

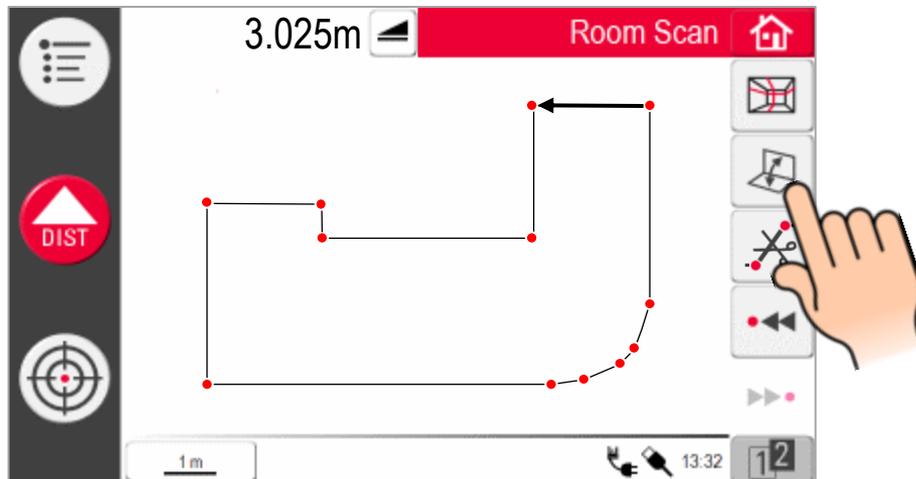
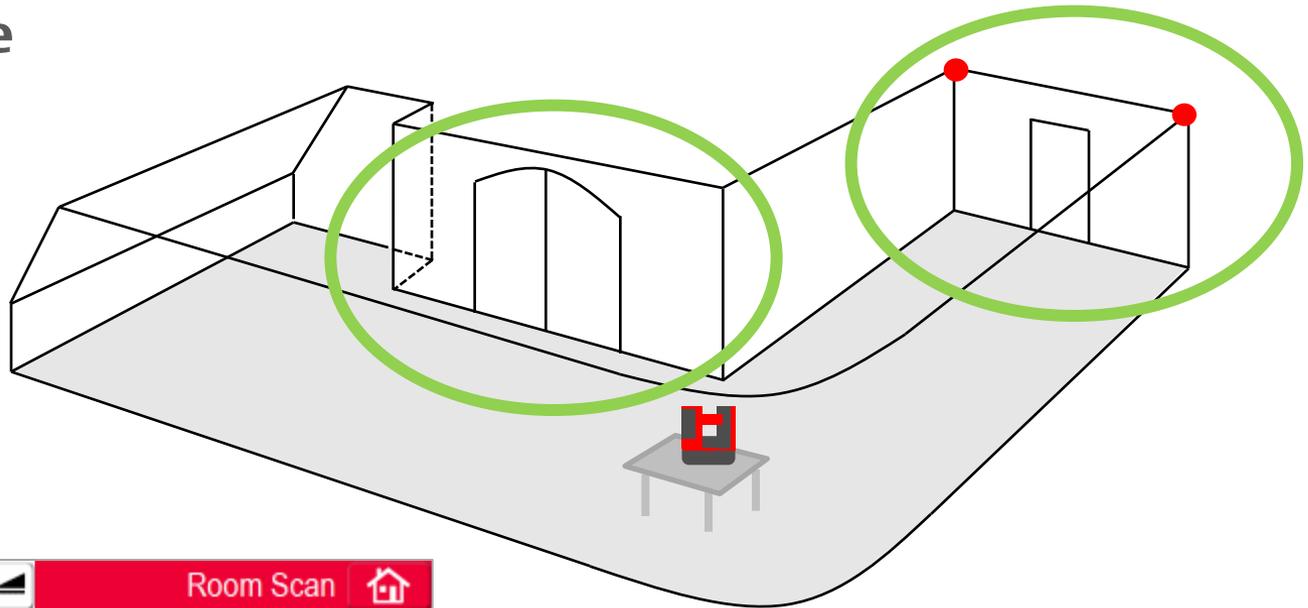


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# Leica 3D Disto

## Unfold Mode

For wall details



Wall details can't be managed in a footprint. To change the view:

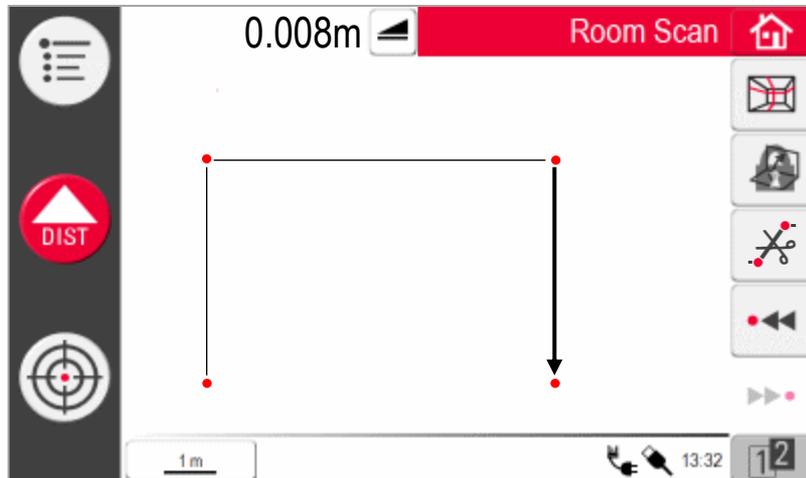
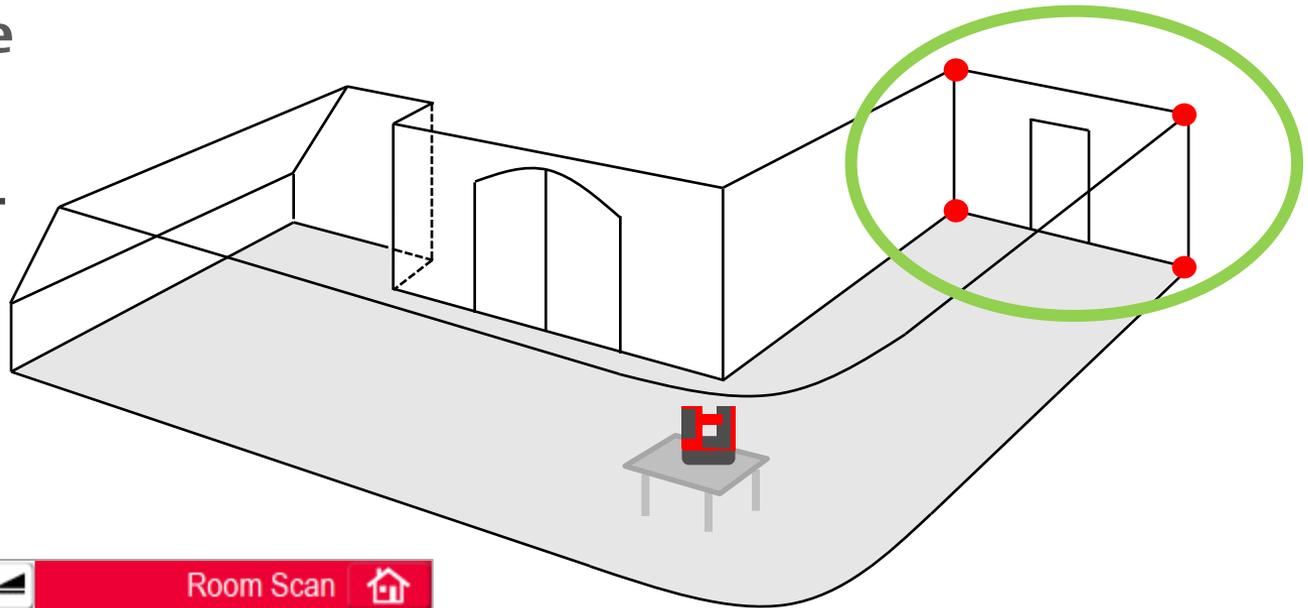
- Select a measured line that stands for a wall
- Press UNFOLD key

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# Leica 3D Disto

## Unfold Mode

For wall details.



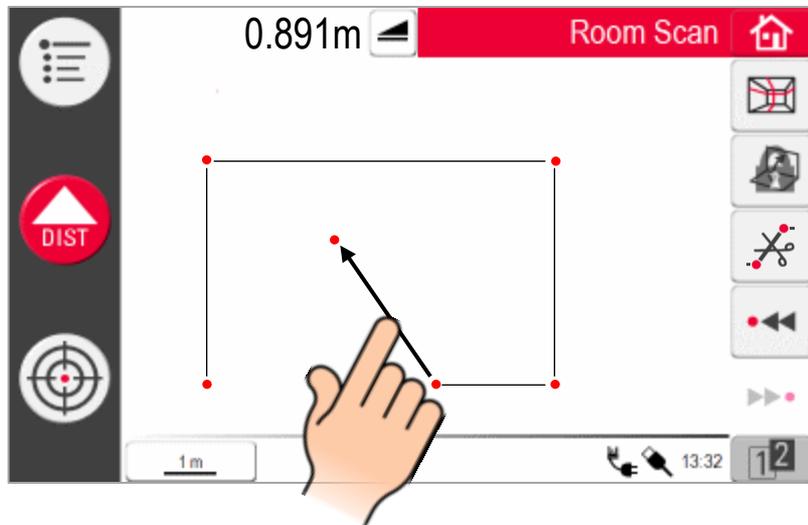
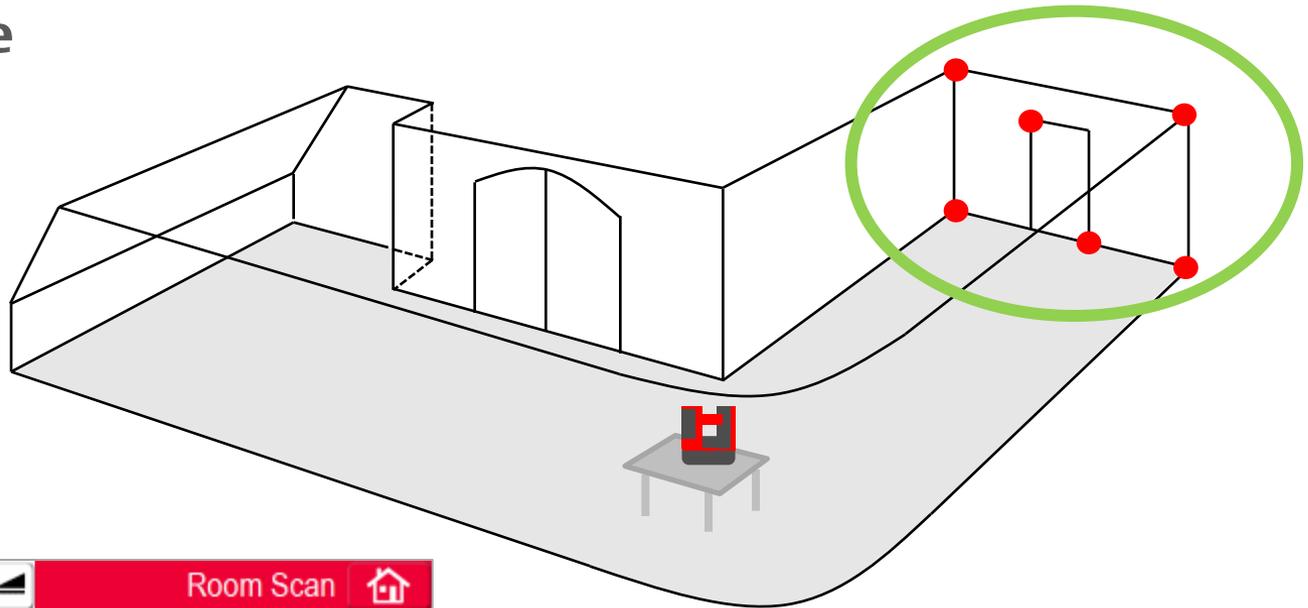
The sketch shows the wall now.  
Now...

- Complete the shape with further measurements
- Draw & cut lines with pen or finger

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# Leica 3D Disto

## Unfold Mode



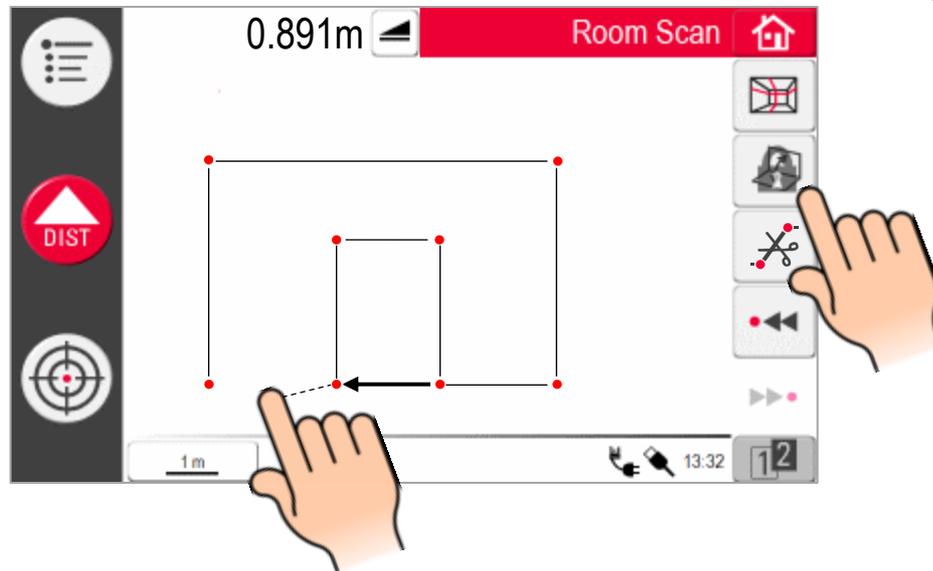
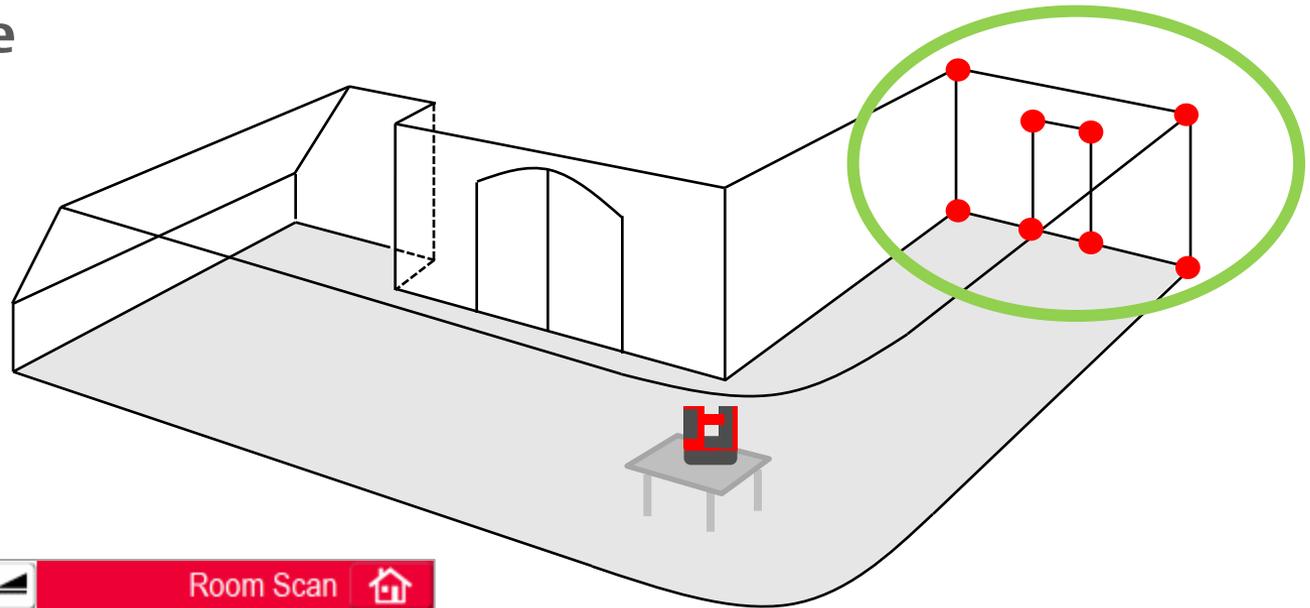
Use CAD tools to measure windows & doors:

- Measure a diagonal line
- Long click the line & tip on "Rectangle" in the list

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# Leica 3D Disto

## Unfold Mode



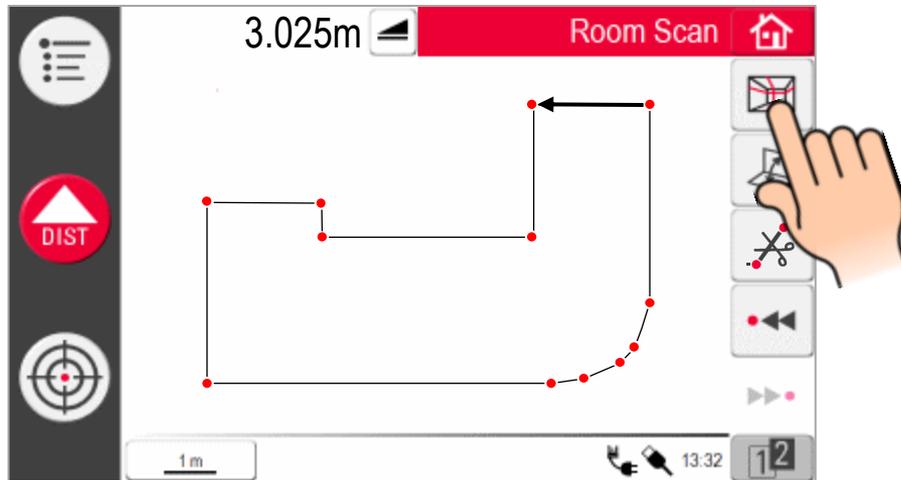
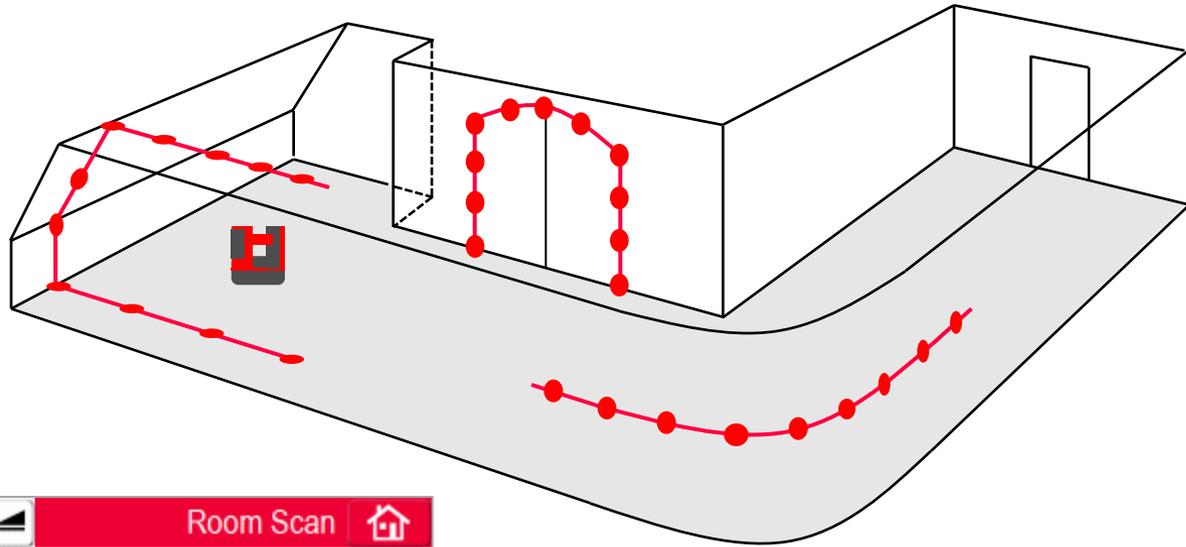
The door is now complete.

- Finish the wall
- Back to footprint via "Unfold" key

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# Leica 3D Disto

## Scans



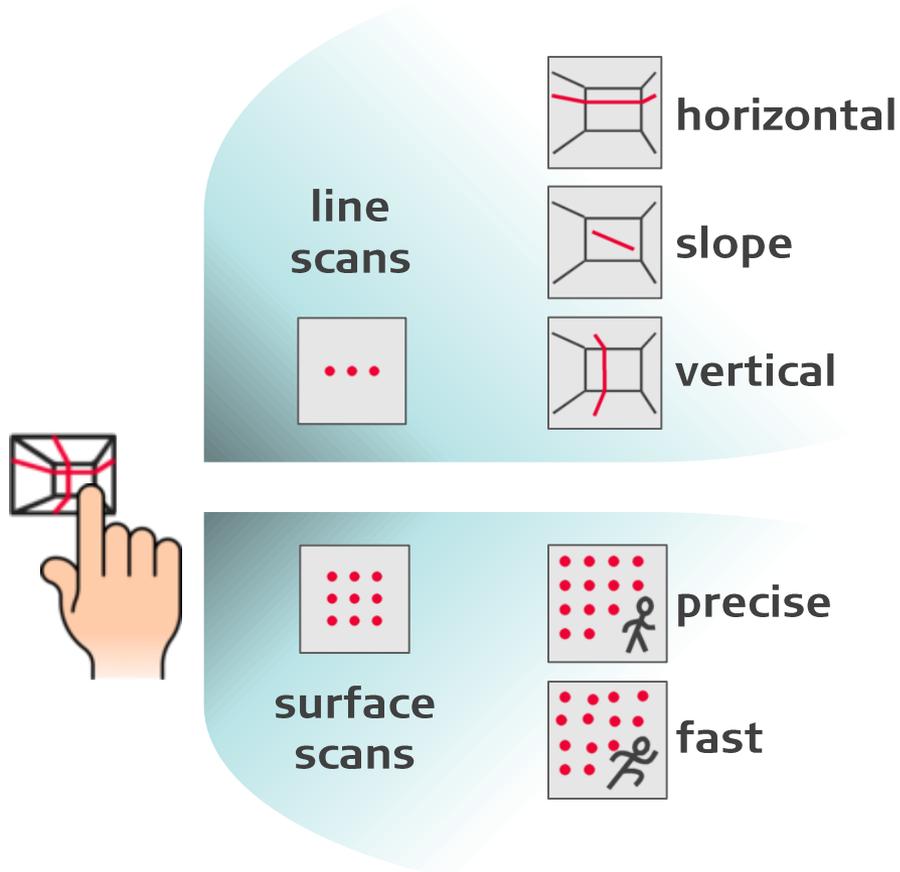
Scanning is one of the 3D Disto's most powerful performances.

- Press SCAN key

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# Leica 3D Disto

## Scans



### Step 1:

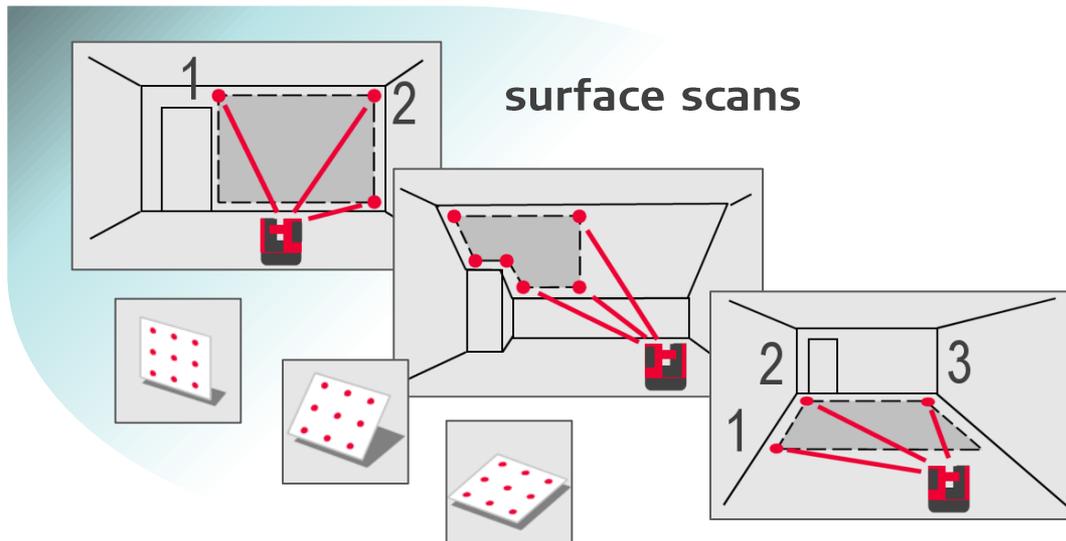
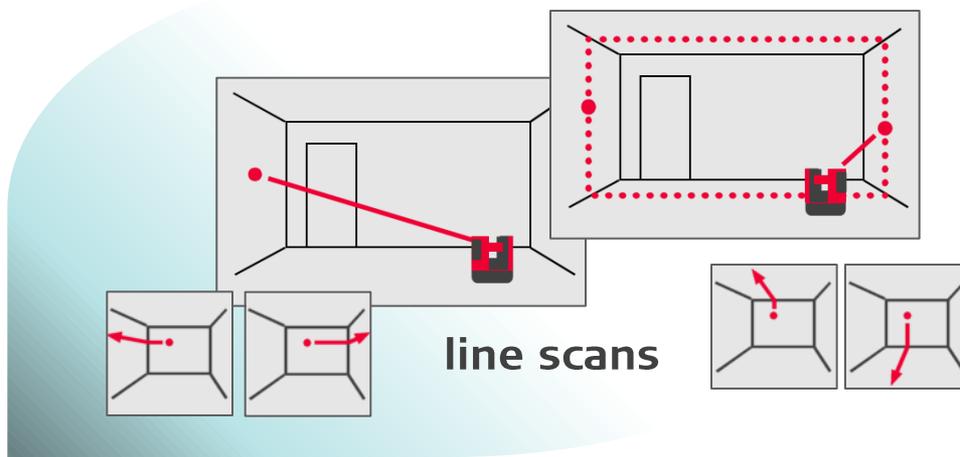
Select the preferred scan with a few clicks:

- 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...

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# Leica 3D Disto

## Scans



### Step 2:

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

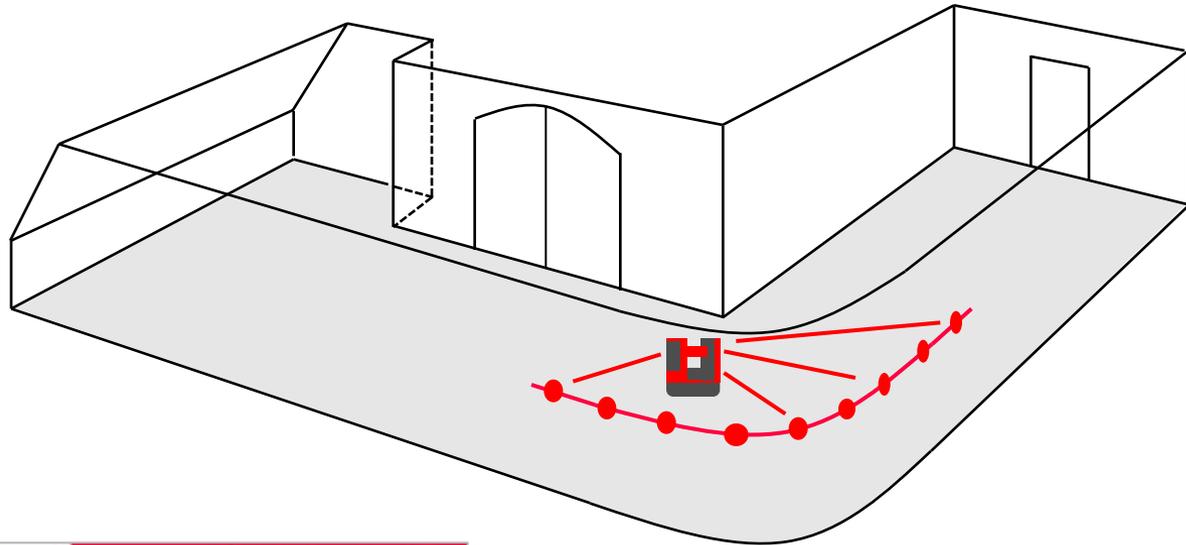
- Line scans require start point, scan end etc.
- Surface scans need an area definition

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# Leica 3D Disto Scans

## Step 3: Scanning.

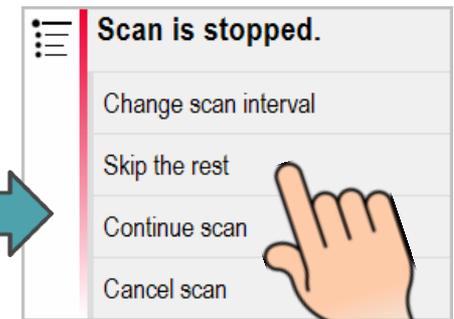
Pilot the scan  
if necessary  
via toolbar  
keys:



switch to sketch

break...

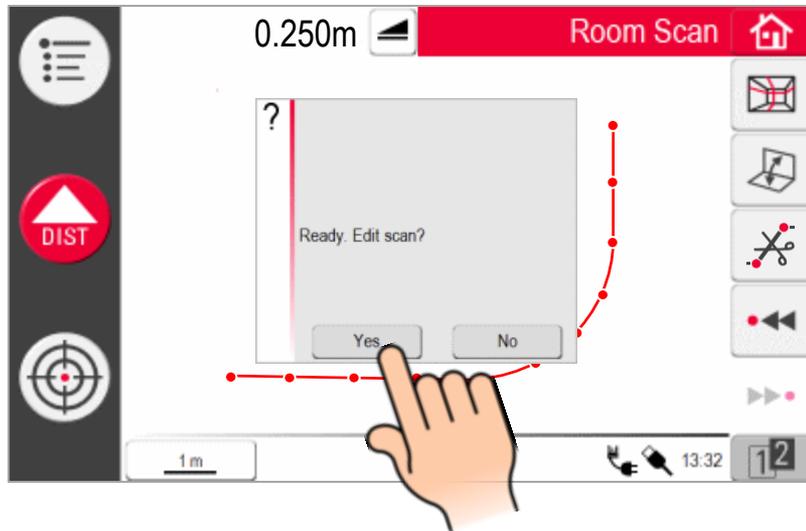
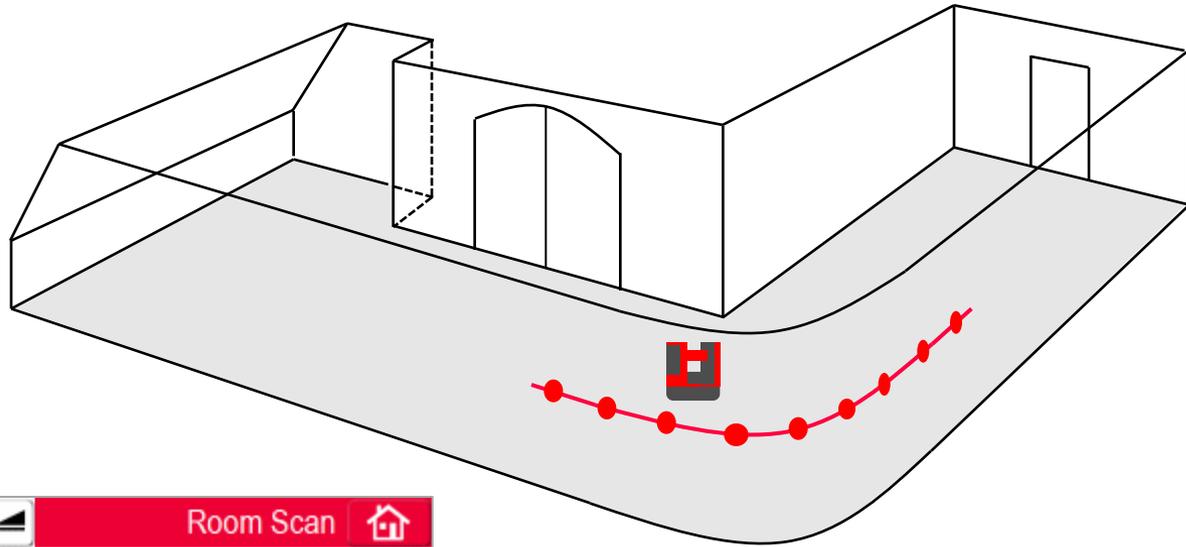
skip a scan point



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# Leica 3D Disto

## Scans



### Step 4: Editing the scan

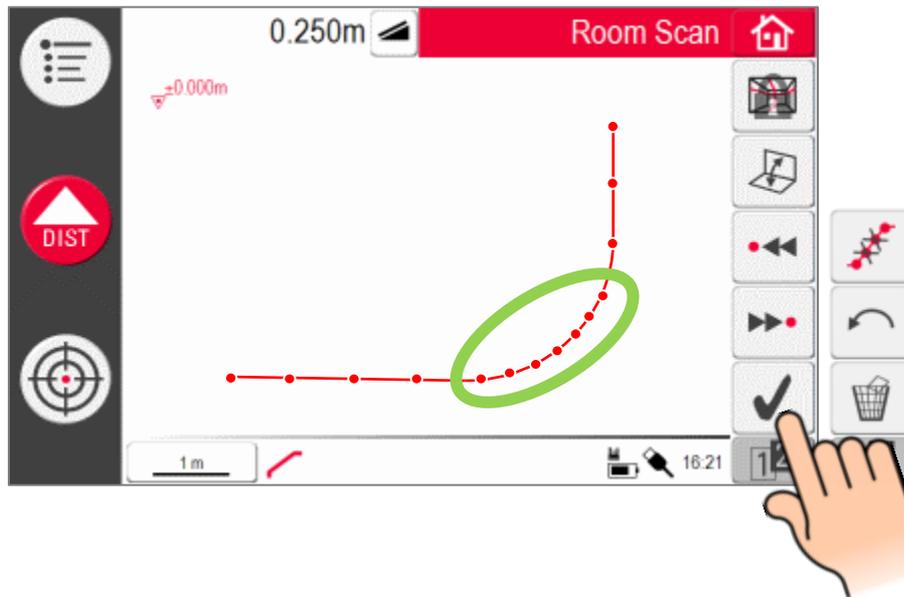
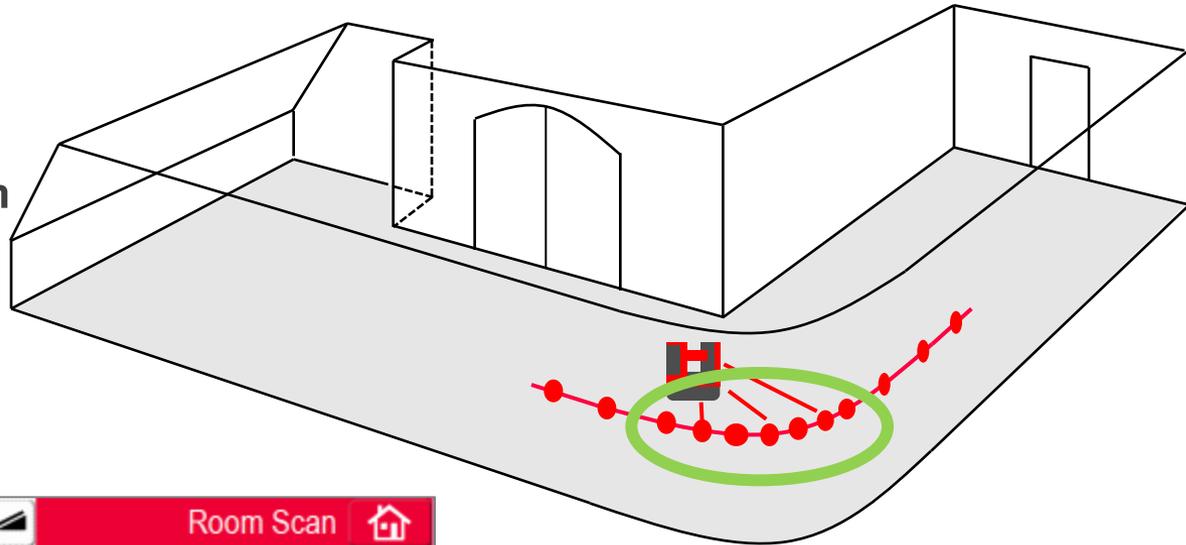
- If the scan needs edits press OK key
- Press NO to accept it like it is.

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# Leica 3D Disto

## Scans

**Step 4:**  
Editing the scan  
(optional)



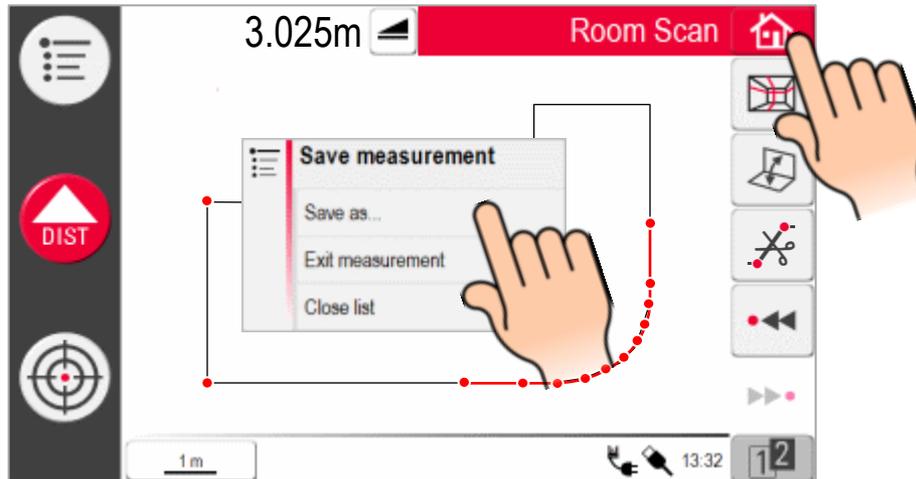
**Options:**

- Measure missing points
- Delete points manually or via automatic THIN OUT function
- press CHECKMARK to finish the scan

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# Leica 3D Disto

## Save & export



Press the HOME key at any time if you run into trouble and to quit the application.

To save & export:

- Press "Save as..."



- Create or select a folder
- Press checkmark

- when it has to be **right**

# Leica 3D Disto

## Save & export



- Plug the USB stick into the Control Unit.
- Start the file manager.

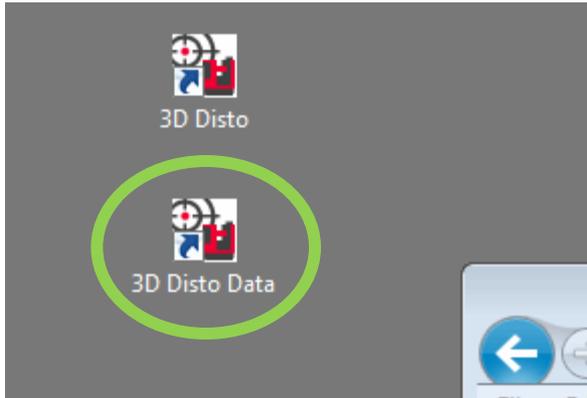


- Select a file or a folder.
- Press export key.

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# Leica 3D Disto

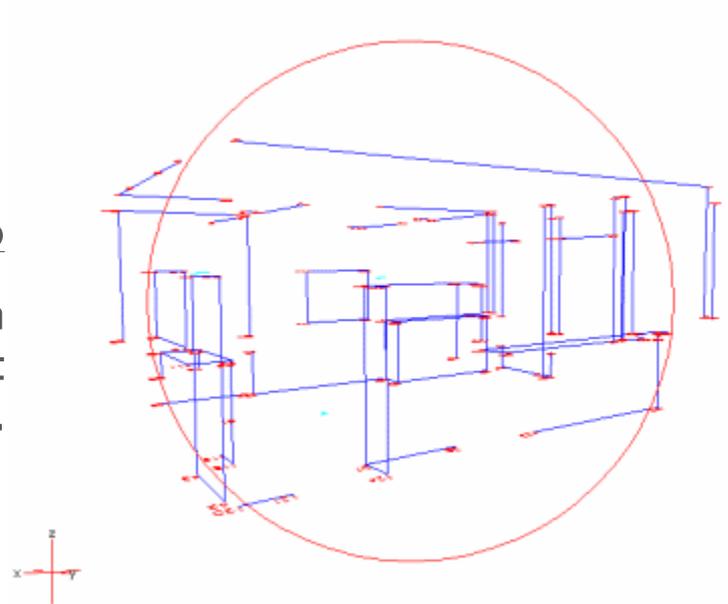
## Save & export (Windows version)



If you use the software version for Windows all export data is now in a folder on your desktop.

### Tip

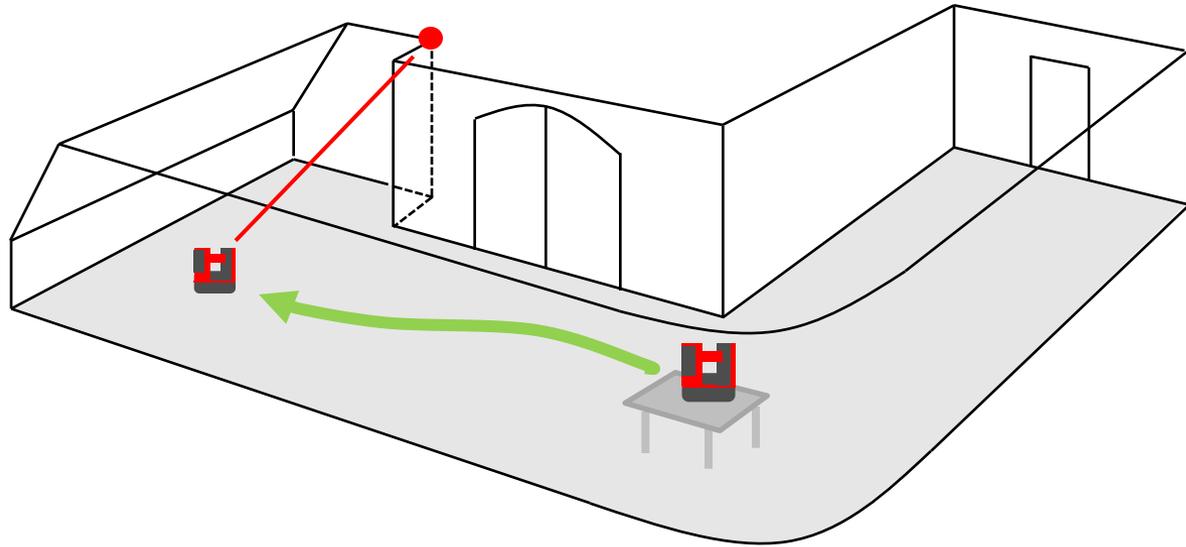
Download a free DXF viewer from the internet and check your export data immediately after export.



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# Leica 3D Disto

## Advanced



There is a third option to measure hidden points:  
Change the 3D Disto's position and continue the  
measurement.

This procedure is a guided application, offered in the  
menu. Find details in the "Relocation" tutorial.

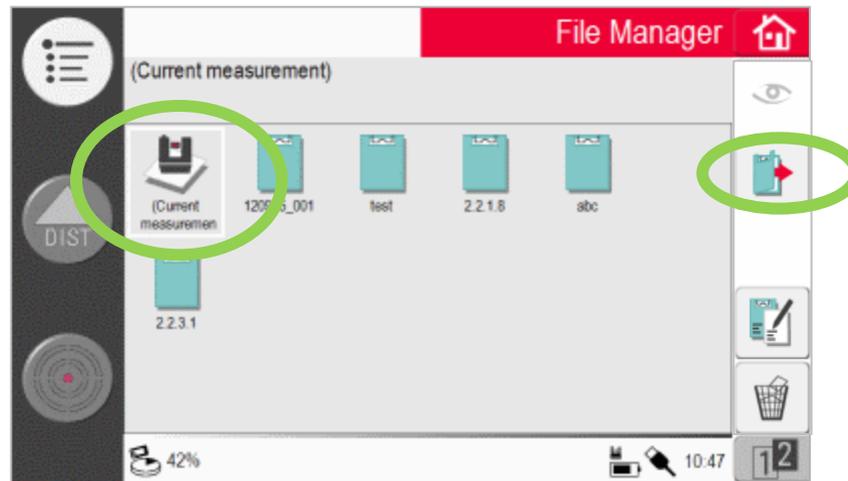
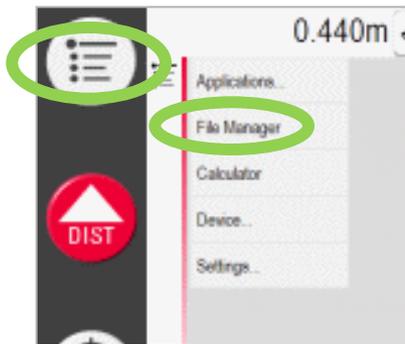
- when it has to be **right**

# Leica 3D Disto

## Advanced

The 3D Disto allows a "Quick data export" of the actual measurement without prior saving:

Menu → File Manger → select "Current Measurement" → EXPORT



Control Unit option:  
Plug USB stick  
before export

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# Leica 3D Disto Advanced

Register your 3D Disto on  
myWorld for:

- warranty extension
- license keys
- training materials
- free software updates
- support
- manuals

<https://myworld.leica-geosystems.com>  
[www.3ddisto.com](http://www.3ddisto.com)

The screenshot shows the myWorld website interface. At the top, there is a navigation bar with the myWorld logo and the Leica Geosystems logo. Below the navigation bar, there is a main content area with a sidebar on the left containing a menu with items like myProducts, myService, mySupport, myTraining, and myDownloads. The main content area features several sections: myProducts, myService, mySupport, myTraining, and myDownloads, each with a small image and a brief description. On the right side, there is a 'Your Contact' section with the company name, address, and phone number, and a 'Latest News' section with several news items dated October 14, 2010, and October 6, 2010. The footer of the page includes the copyright notice '© Leica Geosystems 2010'.

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