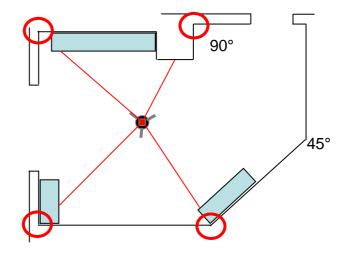


Leica 3D Disto CAD Tools



When to use them

- to measure windows, doors and other wall details
- to measure hidden points
- to create corners of exactly 90.000°
- to create preset dimensions
- to complete missing points and edges
- to measure rooms with minimal effort



The tutorial gives examples how to use the CAD Tool.



Workflows

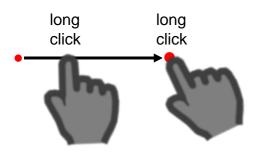
The following pages show the start and the simple workflow of the CAD tools.

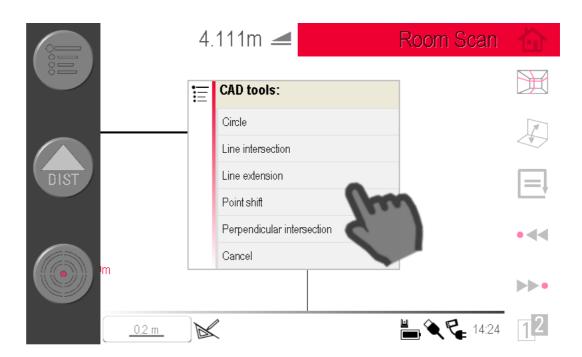




Start & Options

- The CAD tools are offered in the "Room Scan" application
- To start it, make a long klick on a point or on a line in the screen.



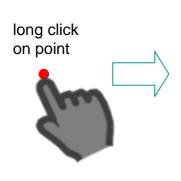


- The tool list appears
- Select an option



Circle Tool

Draws a circle around the selected point, e. g. to measure plugs, sinks, etc.:











Rectangle Tool*

Transforms a diagonal line into a rectangle, e. g. to measure windows or doors:



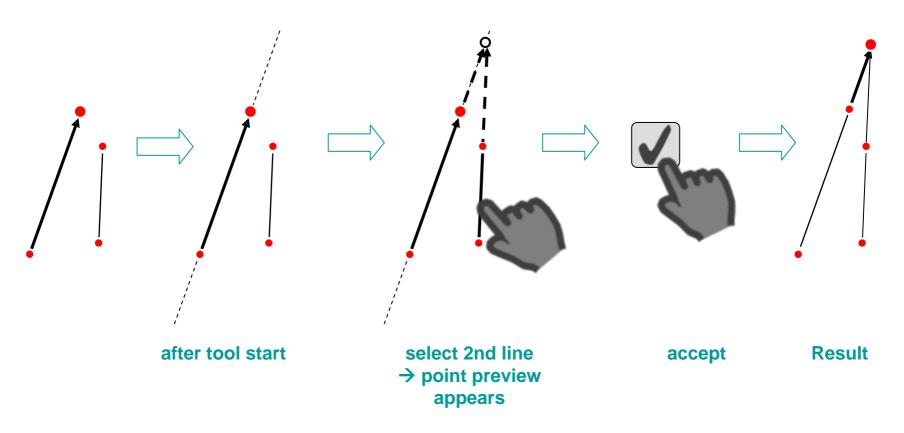






Line intersection

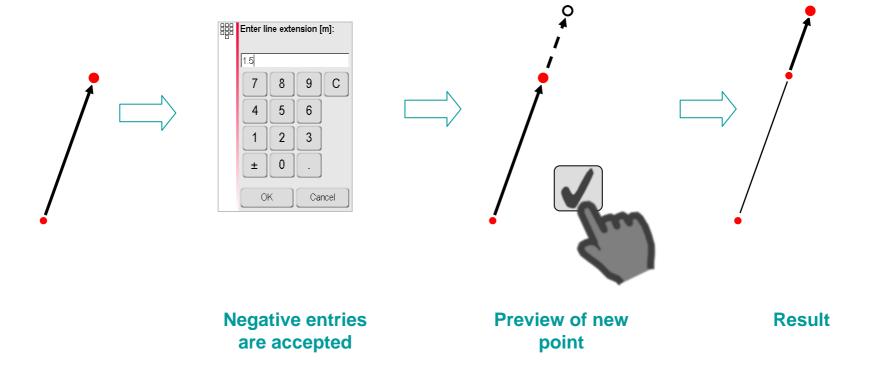
Intersects two lines:





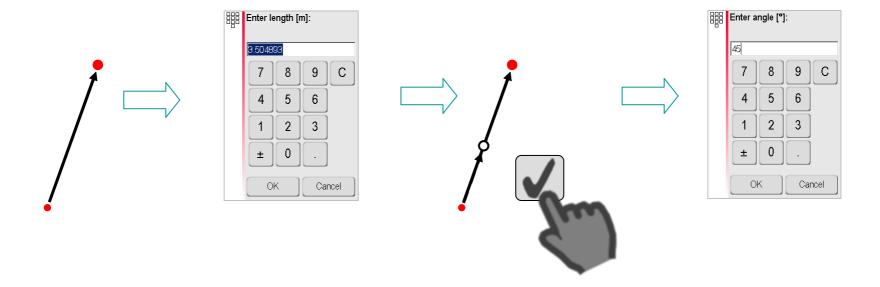
Line extension

Prolongs a measured line:



Point shift (1)

Generates a point beside a measured line:

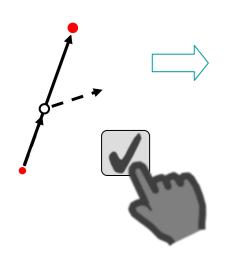


Default = length of selected line.
Negative entries are accepted.

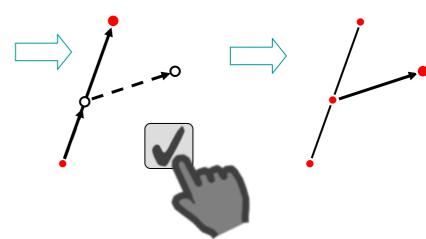
Preview of 1st new point



Point shift (2)







Preview of angle

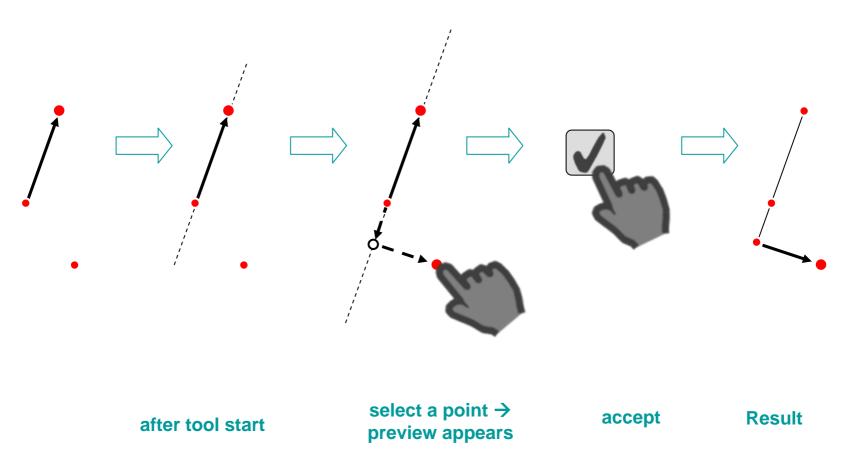
Preview of 2nd new point

Result



Perpendicular intersection

Projects a point perpendicular to a line and creates a right angle:



Examples

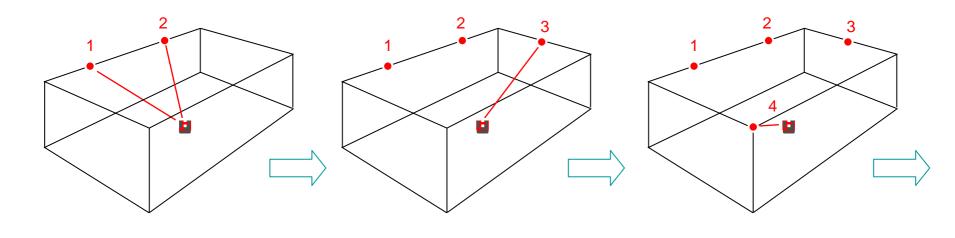
The following pages show some examples how to use the CAD tools effectively.





Quick room measurement (1)

How to measure a room's footprint with 4 points using the "perpendicular intersection" tool (all corners 90°; walls parallel):



Measure P1 and P2 on the wall.

Measure P3 on nearby wall.

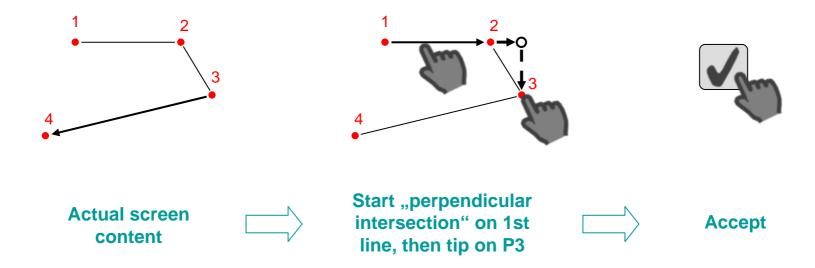
Do not target the corner.

Measure P4 in opposite corner.



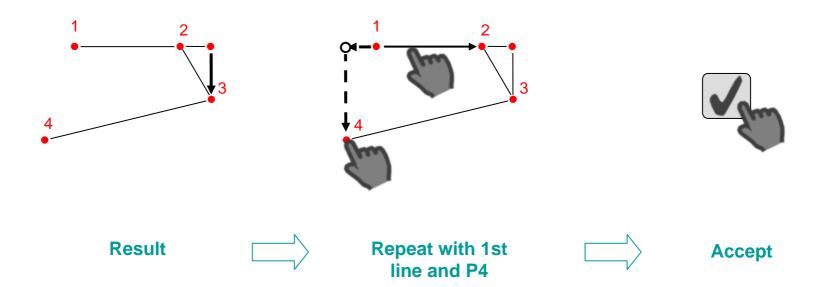
Quick room measurement (2)

Now use the CAD tools to complete the measurement:



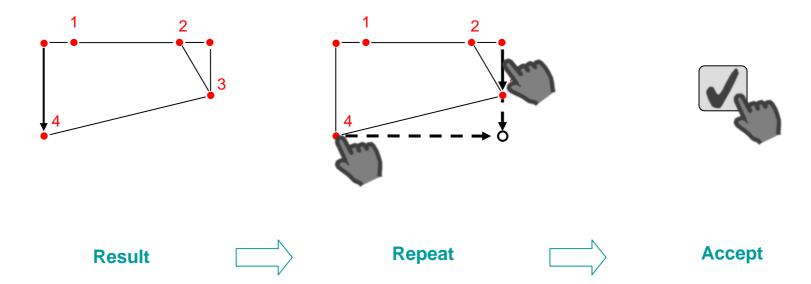
Quick room measurement (3)

Continue:



Quick room measurement (4)

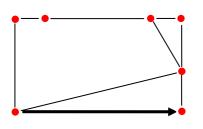
Continue:





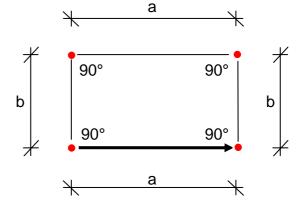
Quick room measurement (5)

Continue:









Result



optional: use the toolbar keys for finishing

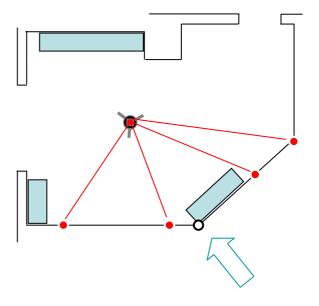


Result



Hidden Corner / Line intersection

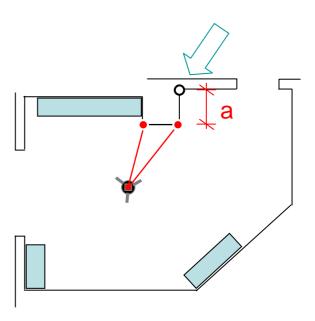
- measure 4 points on two walls
- use "Line intersection" tool to determine hidden corner





Measuring around the corner with "Point shift"

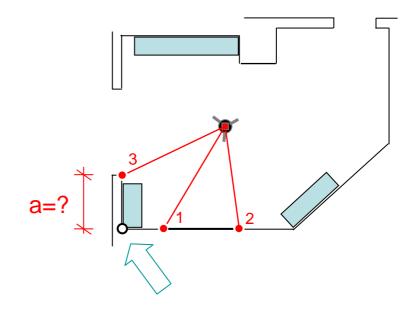
- measure 2 corners with 3D Disto
- measure "a" by hand
- start "Point shift" tool
- enter 90°
- enter "a" to create the hidden point





Creating a 90.000° corner with "Perpendicular intersection"

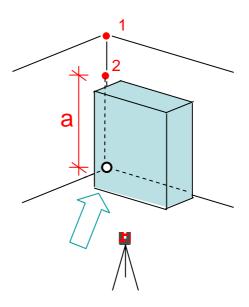
- measure P1 and P2 on the wall
- measure P3 on the corner
- start "Perpendicular intersection" tool on line P1→ P2
- tip on P3 and accept
- point in the corner is computed
- angle = 90.000°





Measure a hidden point with "Line extension"

- measure P1 and P2 in the corner
- measure "a" by hand
- start "Line extension "tool on line P1→ P2
- enter "a" and accept



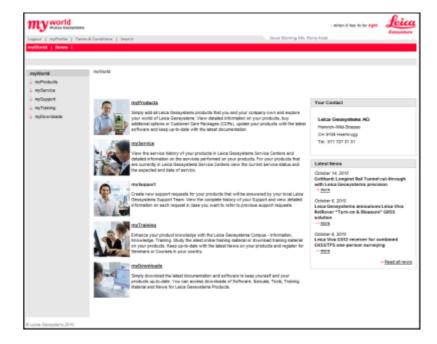


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