Leica 3D Disto

Tutorial
Kitchens

PART OF HEXAGON

- when it has to be **right**

Leica Geosystems

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What do you need to know?

Kitchen Counter Tops:

- The wall length where the counter top will go including angles and to see if the wall is straight
- The tops of the kitchen cupboards
- Pipes, plugs, water supply, etc.

Current methods:

Using a tape measure or laser distance meter. Measurements are then converted to a line drawing or inputted into software. A template is made out of paper or plywood. This is then checked back at the location. A file is produced with the sizes and sent for cutting.

In this tutorial we will show you how the Leica 3D Disto will save you time and money and reduce the amount of workflow during the process.

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Setting up the 3D Disto

STEP 1:

Make sure that you set the 3D Disto on a tripod and that you can see if possible everything you need to measure. This will avoid having to relocate during the measuring process.

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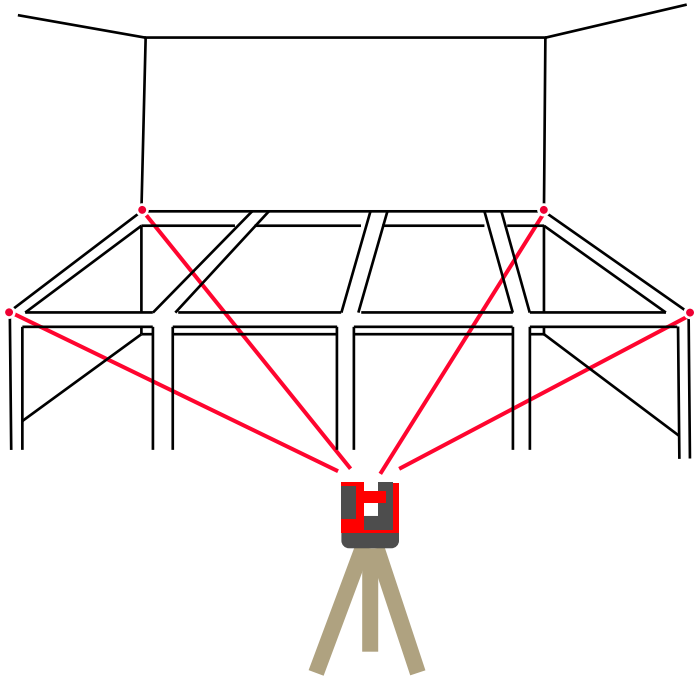
Measuring with the 3D Disto

STEP 2:

For a standard shaped kitchen counter top, all you need to do is measure at the four points above the cupboards to get the area of counter top required.



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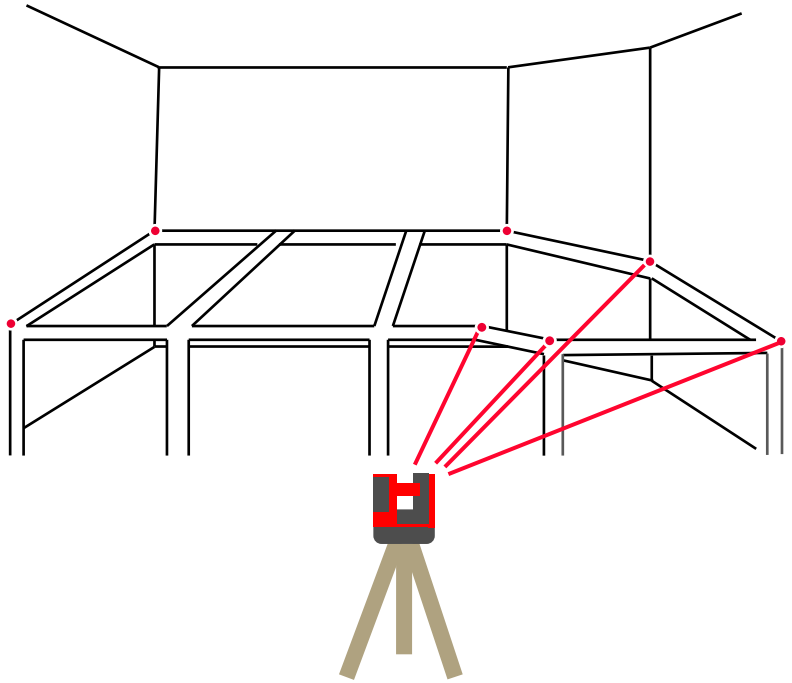
Measuring with the 3D Disto

STEP 2a (optional):

If your kitchen is a slightly different shape with angles then measure at all the points above the cupboards and at the front to get the area of counter top required.



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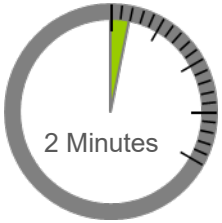
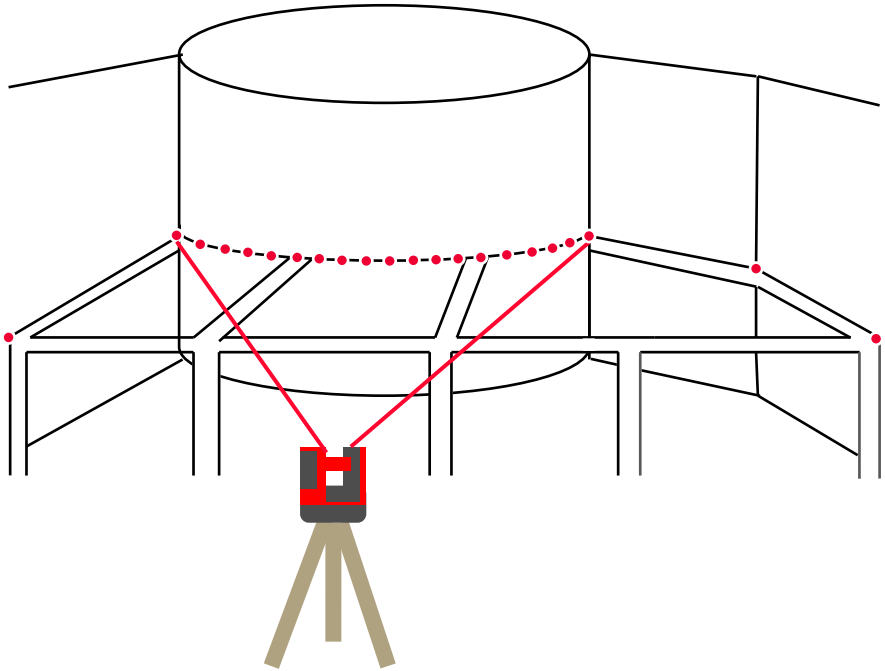
Measuring with the 3D Disto



STEP 2b (optional):

If your kitchen needs to fit to individually curved surfaces or uneven walls, then start a horizontal scan to sample complex shapes.



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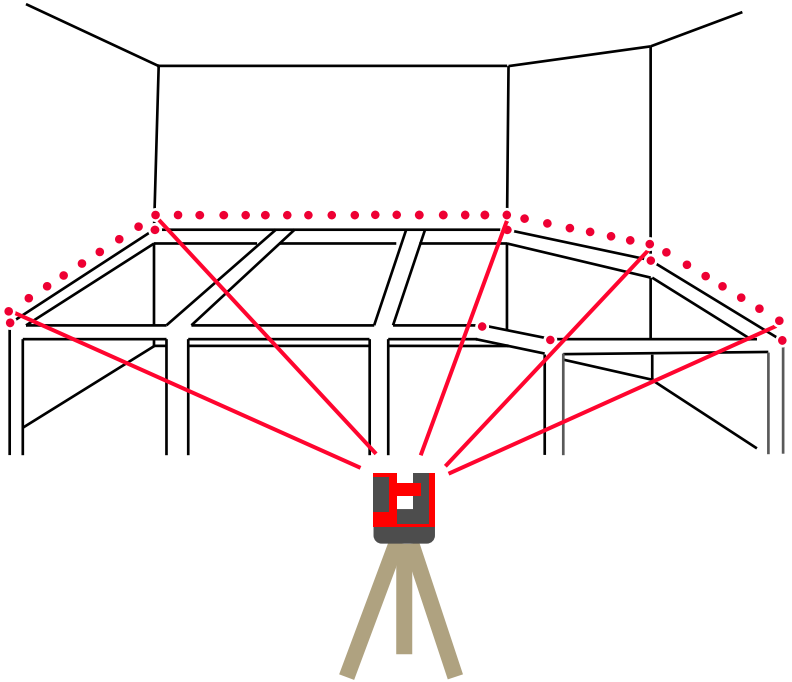
Measuring with the 3D Disto

STEP 2c (optional):

If you are uncertain that your walls are straight, then you will need to scan all the wall surfaces above the counter tops scan function. This will allow an exact fit.



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Measuring other points

STEP 3:

If you have existing pipes, plugs, water supply etc. on the wall or floor you can measure these to decide where the sink will go.

In CAD or other programs you can then fit the sink unit that the customer wants or design a sink of whatever shape to be cut into the work surfaces.

If the pipe work and electrics are not in yet then you can work in CAD using the building plans.

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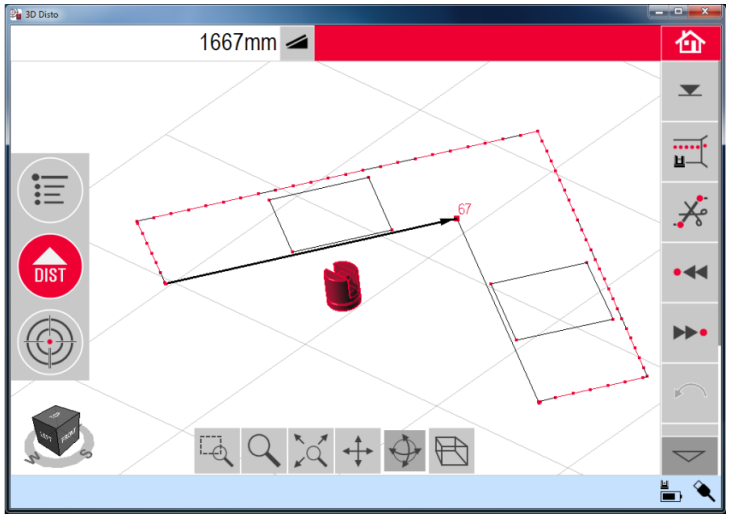
Saving your data for post processing

STEP 4:

Save the measurement and press the File Manager's EXPORT key to generate 1:1 export files. It will fit to your preferred CAD system.



Ready!

You can post process the drawing in your software program. You have the drawing dimensions and you will now design your counter top including the overhang and size of the work surface in your software.

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CNC cutting and installation

STEP 5:

You can send your drawing direct to the CNC machine for cutting.

Once cut the counter top will fit perfectly saving you time and money going back again if a mistake has been made and going through the whole process incurring more costs.

The Leica 3D Disto is the perfect tool for all kitchen counter top applications. You can also define your positioning for cupboards and units as well.

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Tools for cupboard installation

Use the “Tool Kit” for installation with a number of helpful tools. It projects pre-defined point positions and transfers height references around a room if the floor may not be level.

Plumb tool 

Position marker 

Level tool 

Meter mark tool 

Parallel marker 

Leica 3D Disto

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