



OrthoGraph

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Let's see the first steps You'll need to use OrthoGraph Survey System

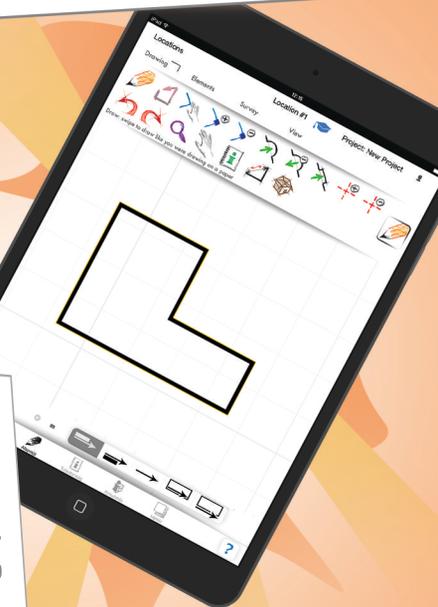
Sketch



Draw the shape of the room as you see it. Try to keep the walls with the right ratio to each other.

Ignore the wall lengths for now. Just make sure the drawing resembles the actual room layout. Draw straight walls instead of curved walls (chords), you can bend them later.

Recognition



OrthoGraph recognizes your drawing, makes walls from what you have drawn.

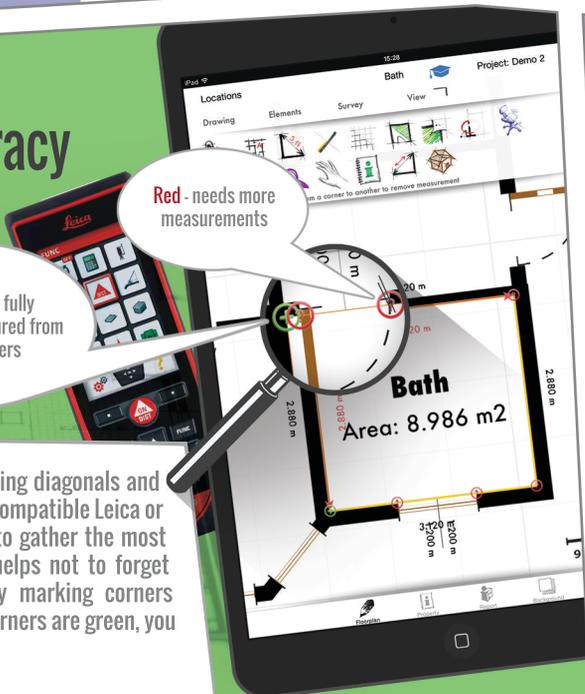
Angles will be recognized as the multiplication of 15 degrees. If your drawing is not closed, then just tap inside the room, OrthoGraph closes it.

Accuracy



Green - means fully measured - measured from 2 other corners

Red - needs more measurements



Increase accuracy by measuring diagonals and missing walls. You can use a compatible Leica or Bosch laser distance meter to gather the most accurate data. OrthoGraph helps not to forget important measurements by marking corners with red or green. When all corners are green, you are done with the room.

Measurements

Keep in mind: when you measure, you do it from one corner to the other. The ending point of the measurement will be pushed away or pulled closer to the starting point.



Do your first measurement.

It rescales your whole drawing. Then every measurement moves the walls while OrthoGraph tries to keep angles unchanged. When a point is measured from two other points, then angles will be also updated.



Doors and Windows



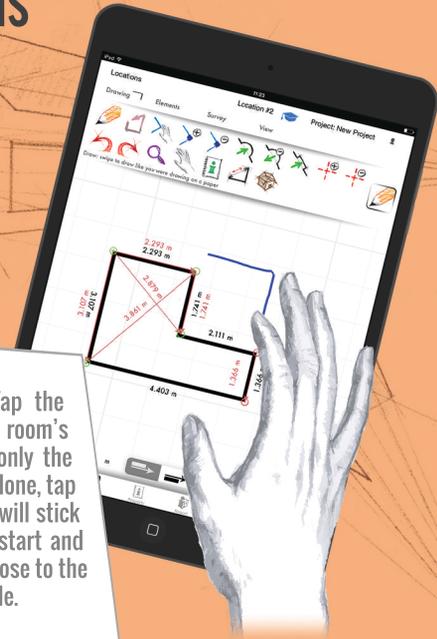
You can add a door/window by tapping on the wall and swiping your finger to the opening direction. When you measured at least one wall in the room, you can measure the position and size of openings. In the property sheet, you can set the type, height and many more details.



New locations



After finishing a room, just go to the next one. Tap the Pencil icon, enter the new room's main properties and draw only the new (undrawn) walls. When done, tap inside the new room and it will stick to the existing one. Try to start and finish the new drawing as close to the existing room as possible.



BIM models (wall, object, window, door)



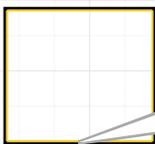
Every element in OrthoGraph has its property list. You can record properties with text, photos, numbers and you can even add more criteria to an object's property list. Most of them are exported into IFC or ArchiCAD and listed in the PDF roombook.

Hierarchy

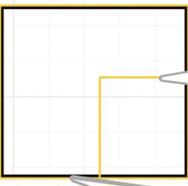


For better representing reality locations are stored in a hierarchical structure. A building is made up by floors containing rooms OrthoGraph's teamwork functionality relies on this structure. If you create a new room besides/under another one in the location list, the Pencil icon lets you draw the new location's shape.

Reference lines



Reference line is inside



Reference line only



Reference line is outside



Each wall has a reference line. Reference line defines the side of the wall you will measure. It's position is set while drawing, but can be changed at wall properties. It will switch the position of the wall relative to the drawn line. Reference line only is for zone borders where you don't need a wall to be displayed, but you still want to mark and measure them.

Results



Get your survey results instantly, via an on-site report or by exporting your work into several different formats (JPG/PNG, PDF, IFC, DXF, XLSX). OrthoGraph Cloud is also there to offer a safe storage for your projects, along with a sharing option and teamwork functionality.

more:

www.orthograph.net/orthograph-cloud-client

ORTHOGRAPH

Building survey software for mobile devices

Quantity	This location only	With sublocations
Area (m2)	93.594	93.594
Volume	252.705	252.705
Area of the walls with openings (m2)	118.148	118.148
Area of the walls without openings (m2)	111.488	111.488
Area of all openings (m2)	6.660	6.660
Area of the doors (m2)	3.780	3.780
Area of the windows (m2)	2.880	2.880
Perimeter (m)	43.759	43.759
Wall perimeter (m)	43.759	43.759