



## **SD Sails Leica 3D Disto User Guide**

### **1. Turn on handset**

Turn on the handset before setting up the laser as it takes a few minutes to load up. The on switch is the rectangular red switch on the top edge of the unit. Press and hold it down for at least 2 seconds. The screen will display the Leica logo and a progress bar will slowly fill.

### **2. Position laser**

Find a stable and secure position for the laser, ideally in the centre of the area to be surveyed so the laser has a clear view of all the fixing point. If this is not possible, you will have to take two or more separate surveys that share three common points so they can be joined together later. If you have a solid level footing in a suitable place, the laser can simply sit on the floor, but if the ground is soft or uneven, it is best mounted on the tripod.

### **3. Turn on laser**

When mounting the laser, ensure the bubble on the side of the unit is within the black circle, and then turn the laser on using the round red button on the top of the unit. The unit will start turning to self-level automatically. The laser should not be touched after this otherwise an error will show on the handset and the survey will have to be re-started.

### **4. Wirelessly connect the handset to the laser**

The handset should now display a grey set up screen with four connection options along the bottom. Using the red stylus located in the right hand side of the handset, we recommend selecting the second option from the left, which connects the handset wirelessly to the laser.

### **5. Select target button**

The handset should now display the main home screen with three buttons on the left. To start surveying your structure, select the target button on the bottom left of the screen.

### **6. Point laser at fixing**

Using the red stylus, touch and hold it on the cross in the centre of the screen – after two seconds, a red dot will appear in the centre of the cross. Keeping the tip of the stylus in contact with the screen, move it in the direction you want to go until you can see your fixing point on the screen. TIP – the further you move the tip of the stylus away from the central cross, the quicker the image moves. To slow it down, keep the stylus close to the cross.

### **7. Zoom in**

When you can see your fixing point on the screen, remove the stylus from the screen so the red dot disappears. Slowly tap any one of the four arrows on the edges of the screen to gradually position the cross on your fixing point. When it is close to the correct position, use the plus button in the top right corner of the screen to zoom in. Each time you zoom, continue to use the arrows to get the cross as accurately as you can in the correct position. This can be done three times before you are fully zoomed in and have the most accurate reading you can get (the button goes grey when it has reached its maximum).

### **8. Take a photo**

If you want to take a photo of this final position, tap the 1/2 button in the bottom right hand corner of the screen and then tap the camera button that appears on the right. You don't have to photograph each point, but it may help in later discussions. The photo will be saved with the same reference number as the point.

**9. Save the point**

Without moving the laser, tap the DIST button on the left of the screen to save the point.

**10. Save additional points**

To move to the next fixing point, press the target button again on the left of the screen and then tap the minus button on the right to zoom the image right out again (the button goes grey when it has reached its maximum). Repeat steps 6 - 9 to record all subsequent fixing points. All points (and any photos) will be numbered sequentially and we recommend working in a clockwise direction around the structure.

**11. Deleting if required**

If you want to delete a point or a line connecting any points, tap the 1/2 button in the bottom right corner and a trash can button will appear on the right. Tap the line or point to delete and then tap the trash can button and follow the on screen instructions. You can undo a deletion by tapping the back arrow above it.

**12. View measurements**

To complete the survey, retake the first point again and select 'Snap to point' to re-use the same original point. The perimeter of the canopy should then be displayed on the screen with all the corner points referenced. You can tap on each line individually to see the length displayed at the top of the screen or use the functions on the right of the screen to display the entire perimeter length, which is what the canopy cost is based on.

**13. Save file**

Once you are happy that the survey is complete, save the file by tapping on the house button in the top right hand corner of the screen; select Save As from the menu; select the new file button second down on the right; name the file using the keyboard that pops up (you can delete the numbers automatically generated by using the arrow back key); select OK and your file is saved.

**14. Save additional files**

If you have more than one structure to survey or a complex structure that requires multiple surveys, you can repeat the whole process by tapping the file back button on the top right and then save additional files in the same way.

**15. Export files**

You can leave the file on the handset and return it to SD Sails to upload it, or you can export the file on to the memory stick provided. To do this, insert the memory stick in to the port on the bottom right hand edge of the unit behind the rubber seal; tap the menu button on the top left of the screen; select File Manager; select your file; tap the 1/2 button in the bottom right hand corner of the screen; tap the file button with the red arrow on the right; tap the memory stick button in the centre; wait for the screen to say OK; remove the memory stick. You can then upload this to your own device to view and email it to SD Sails.

**16. Shut down**

To shut down the handset, tap the menu button; select Power Off; select OK. To turn off the laser, press and hold the power button.

**17. Pack up**

Pack all the items back in to the side of the case with the rubber seal around the edge before shutting and locking the case securely.