
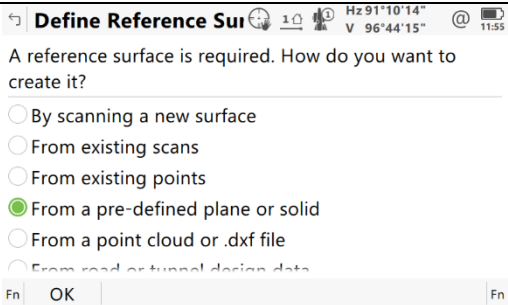
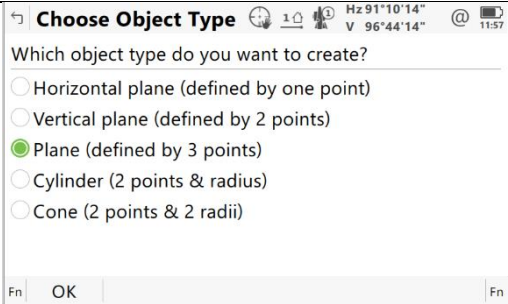
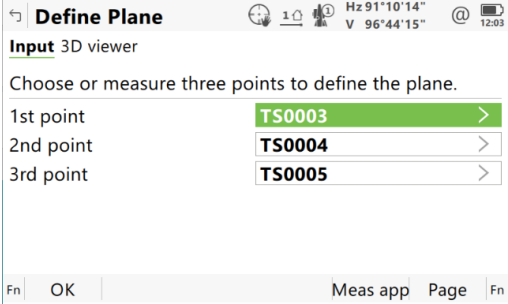


## Leica Captivate: Inspect Surfaces

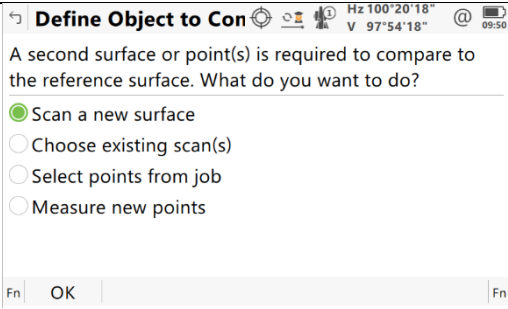
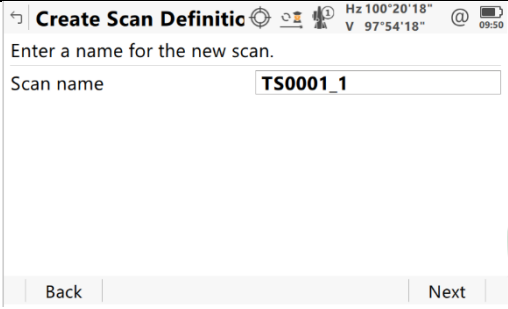
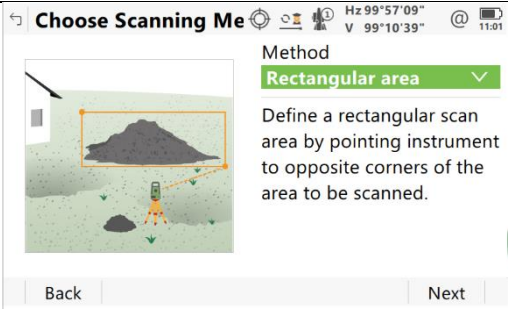

1	From the Home screen of the Leica Captivate create you job to hold your scan data. Once you have created your job locate and open the <b>Inspect Surfaces</b> App from the lower task carousel.										
2	The first step is to define the reference surface you wish to compare to. In this example, we are going to compare a scanned section of wall to a plane defined by three measurements to that wall.	 <p><b>Define Reference Surface</b></p> <p>A reference surface is required. How do you want to create it?</p> <ul style="list-style-type: none"> <li><input type="radio"/> By scanning a new surface</li> <li><input type="radio"/> From existing scans</li> <li><input type="radio"/> From existing points</li> <li><input checked="" type="radio"/> From a pre-defined plane or solid</li> <li><input type="radio"/> From a point cloud or .dxf file</li> <li><input type="radio"/> From road or tunnel design data</li> </ul> <p>Fn OK Fn</p>									
3	Select <b>Plane</b> from the range of options on the screen then hit <b>OK</b> .	 <p><b>Choose Object Type</b></p> <p>Which object type do you want to create?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Horizontal plane (defined by one point)</li> <li><input type="radio"/> Vertical plane (defined by 2 points)</li> <li><input checked="" type="radio"/> Plane (defined by 3 points)</li> <li><input type="radio"/> Cylinder (2 points &amp; radius)</li> <li><input type="radio"/> Cone (2 points &amp; 2 radii)</li> </ul> <p>Fn OK Fn</p>									
4	As prompted, we'll need to choose three points that will define our flat plane. If you don't have these stored, you can hit the <b>Meas app</b> key and be taken straight into the Measure app.	 <p><b>Define Plane</b></p> <p><b>Input</b> 3D viewer</p> <p>Choose or measure three points to define the plane.</p> <table border="1"> <tr> <td>1st point</td> <td>TS0003</td> <td>&gt;</td> </tr> <tr> <td>2nd point</td> <td>TS0004</td> <td>&gt;</td> </tr> <tr> <td>3rd point</td> <td>TS0005</td> <td>&gt;</td> </tr> </table> <p>Fn OK Meas app Page Fn</p>	1st point	TS0003	>	2nd point	TS0004	>	3rd point	TS0005	>
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### Sunbelt Rentals Survey

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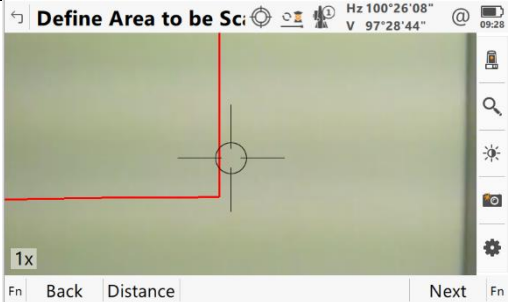
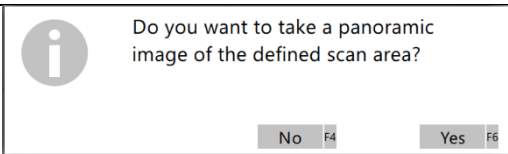
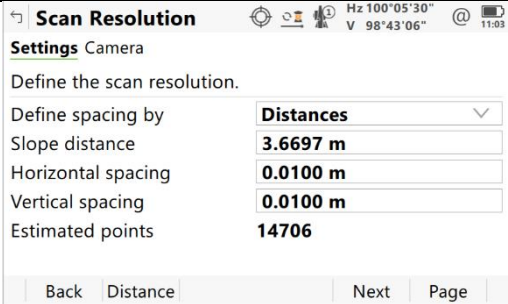
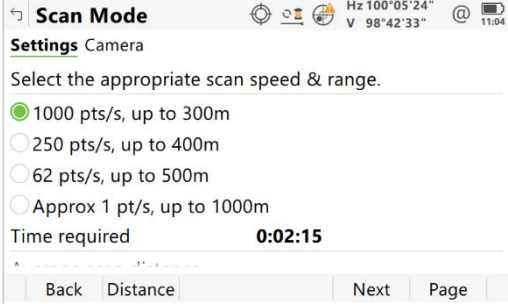
5	Once you've measured or selected your points to define your plane hit <b>OK</b>	
6	Then we'll need to select a second surface to compare to the first. (In this case we're going to take a scan of the wall using the MS60 multistation). Select scan a new surface than hit <b>OK</b>	
7	Enter a name for the scan then hit <b>Next</b>	
8	Then we get several options on how to define our scan area. Ours is a simple rectangular area so hit <b>Next</b>	
9	To define the rectangular area start with the top left point – aim the total station at that point. Then hit <b>Next</b>	

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10	<p>That will have defined the first point. Now aim the total station at the lower right corner (you'll see a handy red rectangle appear). Hit <b>Next</b> once your satisfied you've enclosed all the area needed.</p>	
11	<p>At this point you'll be prompted about taking a panoramic photo of the area you want to scan. Hit yes if you do – no if you don't.</p>	
12	<p>Then we can set our Scan Resolution. Here you can set the spacing manually or let the instrument decide what's best determined by its distance from the area.</p>	
13	<p>You're then asked to choose the scan speed and the range of scan.</p> <p>You can choose from the options displayed or aim at your target and press <b>Distance</b>.</p>	

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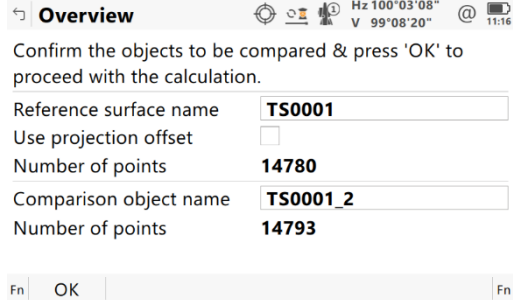
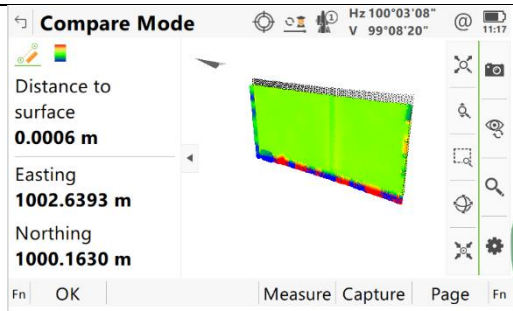
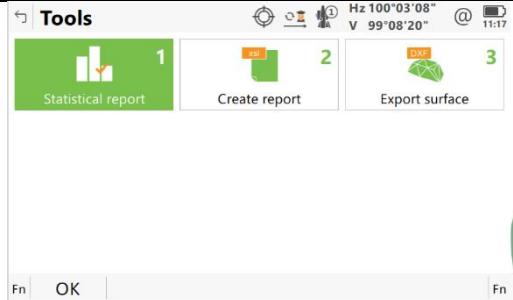
14	Then you can choose to exclude object that are scanned beyond a set distance.	<div><div>Scan Distance Filter</div><div>Settings Camera</div><div>Only scan objects within a distance range</div><div><div>Back</div><div>Finish</div><div>Page</div></div></div>
15	Then <b>Start</b> the Scan	<div><div>Scan Status</div><div>Progress</div><div><div>Scan name</div><div>Points scanned</div><div>% completed</div><div>Time remaining</div><div>Scans completed</div></div><div><div>TS0001_2</div><div>0</div><div>0%</div><div>0:02:15</div><div>0 / 1</div></div><div><div>Start</div></div></div>
16	Once the instrument has finished you'll get a scan of the wall	<div><div>Scan Viewer</div><div>Scans 3D viewer</div><div><div><div></div></div></div><div><div>Fn</div><div>OK</div><div>Page</div><div>Fn</div></div></div>
17	Then you can select the colour scale for the thematic map you'll see later. Define your colours and the spacing between them.	<div><div>Define Colour Scale</div><div>Select the colour scale range to be applied to the thematic map.</div><div><div><div>Distance</div><div>0.0400 m</div><div>0.0100 m</div><div>-0.0100 m</div><div>-0.0400 m</div></div><div><div>Colour</div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div></div><div><div>Fn</div><div>OK</div><div>Insert</div><div>Delete</div><div>Fn</div></div></div>

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18	You're then asked to check that you're confirming the correct things. Hit <b>OK</b> then	
19	We get to the business end of the app. Tap on the coloured map and you'll bring up the distance between them.	
20	If you want to get a report of the comparison hit <b>Fn</b> then <b>Tools</b> . (You'll need to import the Inspect surfaces Style sheet first though. See Style Sheets Guide)	

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