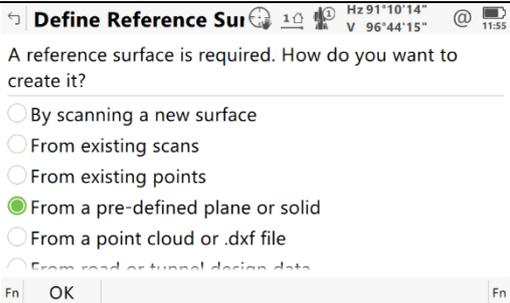
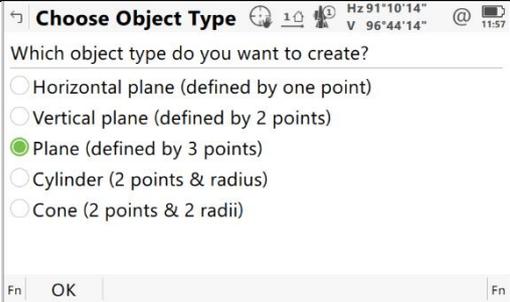
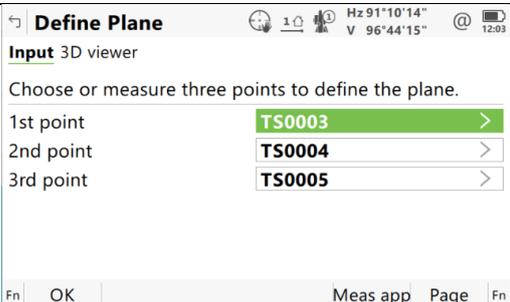


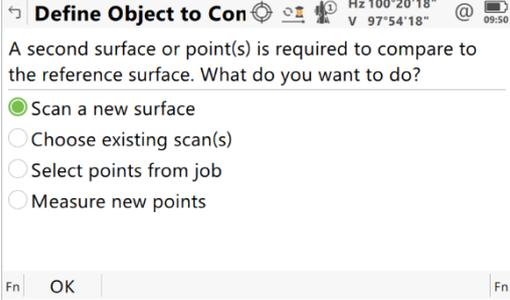
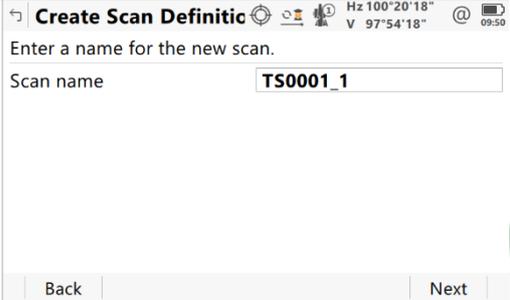
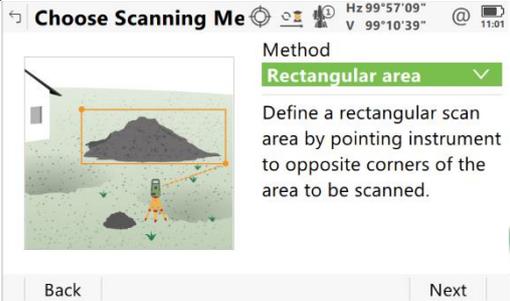
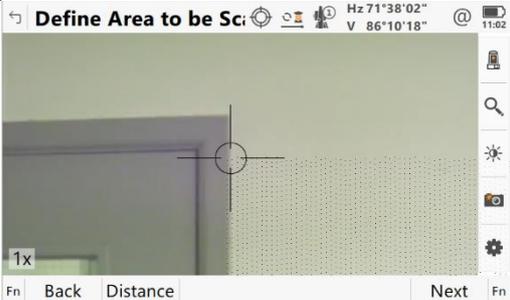
Leica Captivate: Inspect Surfaces

<p>1</p>	<p>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 Inspect Surfaces App from the lower task carousel.</p>	
<p>2</p>	<p>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>	 <p>Define Reference Surface</p> <p>A reference surface is required. How do you want to create it?</p> <ul style="list-style-type: none"> <input type="radio"/> By scanning a new surface <input type="radio"/> From existing scans <input type="radio"/> From existing points <input checked="" type="radio"/> From a pre-defined plane or solid <input type="radio"/> From a point cloud or .dxf file <input type="radio"/> From road or tunnel design data <p>Fn OK Fn</p>
<p>3</p>	<p>Select Plane from the range of options on the screen then hit OK.</p>	 <p>Choose Object Type</p> <p>Which object type do you want to create?</p> <ul style="list-style-type: none"> <input type="radio"/> Horizontal plane (defined by one point) <input type="radio"/> Vertical plane (defined by 2 points) <input checked="" type="radio"/> Plane (defined by 3 points) <input type="radio"/> Cylinder (2 points & radius) <input type="radio"/> Cone (2 points & 2 radii) <p>Fn OK Fn</p>
<p>4</p>	<p>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 Meas app key and be taken straight into the Measure app.</p>	 <p>Define Plane</p> <p>Input 3D viewer</p> <p>Choose or measure three points to define the plane.</p> <p>1st point TS0003 ></p> <p>2nd point TS0004 ></p> <p>3rd point TS0005 ></p> <p>Fn OK Meas app Page Fn</p>

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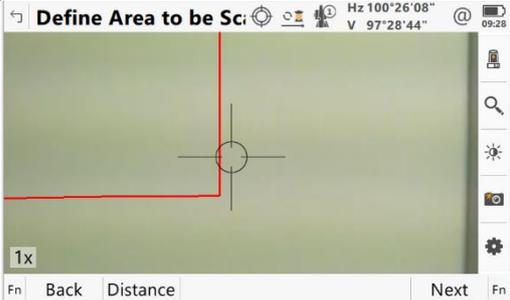
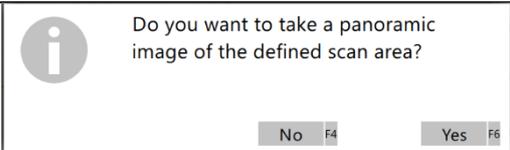
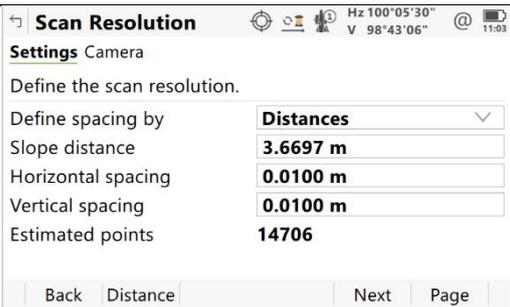
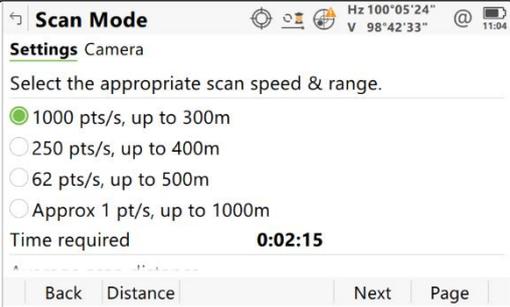
5	Once you've measured or selected your points to define your plane hit OK	
6	Then we'll need to select a second surface to compare to the first. (In this case we're going to take a scan of the wall using the MS60 multistation). Select scan a new surface than hit OK	 <p>Define Object to Compare</p> <p>A second surface or point(s) is required to compare to the reference surface. What do you want to do?</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Scan a new surface <input type="radio"/> Choose existing scan(s) <input type="radio"/> Select points from job <input type="radio"/> Measure new points <p>Fn OK Fn</p>
7	Enter a name for the scan then hit Next	 <p>Create Scan Definition</p> <p>Enter a name for the new scan.</p> <p>Scan name <input type="text" value="TS0001_1"/></p> <p>Back Next</p>
8	Then we get several options on how to define our scan area. Ours is a simple rectangular area so hit Next	 <p>Choose Scanning Method</p> <p>Method</p> <p>Rectangular area</p> <p>Define a rectangular scan area by pointing instrument to opposite corners of the area to be scanned.</p> <p>Back Next</p>
9	To define the rectangular area start with the top left point – aim the total station at that point. Then hit Next	 <p>Define Area to be Scanned</p> <p>1x</p> <p>Fn Back Distance Next Fn</p>

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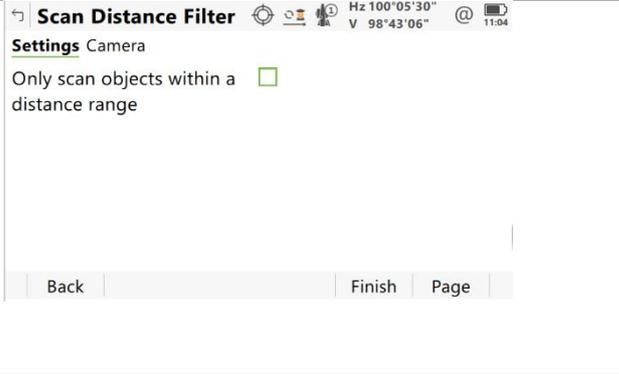
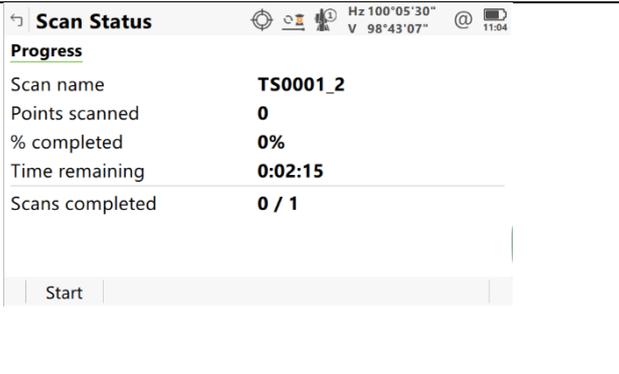
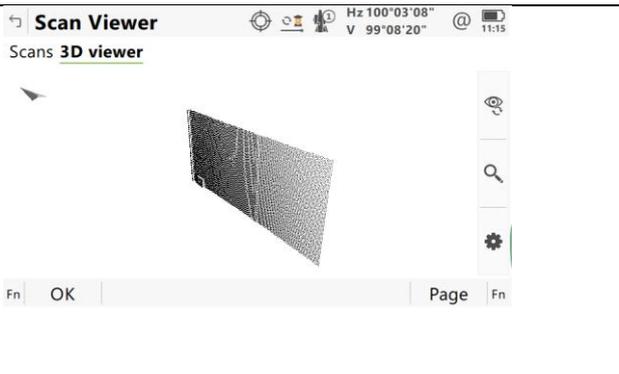
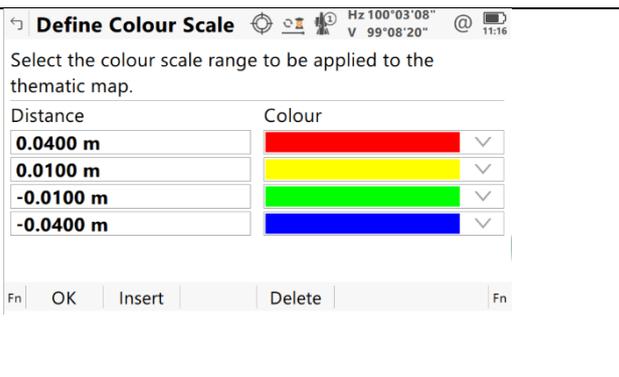
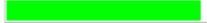
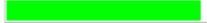
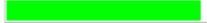
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<p>10</p>	<p>That will have defined the first point. Now aim the total station at the lower right corner (you'll see a handy red rectangle appear). Hit Next once your satisfied you've enclosed all the area needed.</p>	
<p>11</p>	<p>At this point you'll 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>	
<p>12</p>	<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>	
<p>13</p>	<p>You're then asked to choose the scan speed and the range of scan. You can choose from the options displayed or aim at your target and press Distance.</p>	

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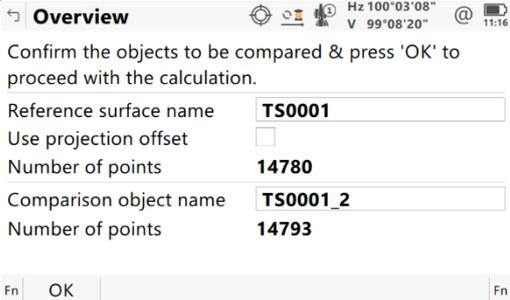
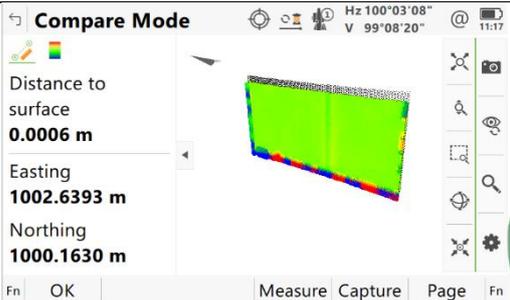
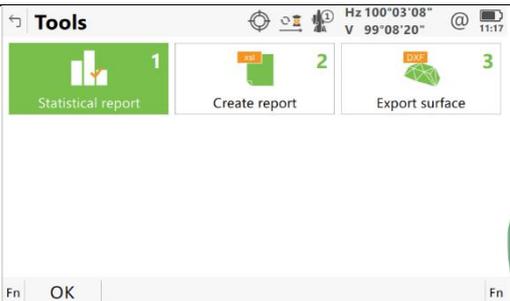
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<p>14</p>	<p>Then you can choose to exclude object that are scanned beyond a set distance.</p>	 <p>Scan Distance Filter Camera Settings Only scan objects within a distance range <input type="checkbox"/></p> <p>Back Finish Page</p>										
<p>15</p>	<p>Then Start the Scan</p>	 <p>Scan Status Progress Scan name TS0001_2 Points scanned 0 % completed 0% Time remaining 0:02:15 Scans completed 0 / 1</p> <p>Start</p>										
<p>16</p>	<p>Once the instrument has finished you'll get a scan of the wall</p>	 <p>Scan Viewer Scans 3D viewer</p> <p>Fn OK Page Fn</p>										
<p>17</p>	<p>Then you can select the colour scale for the thematic map you'll see later. Define your colours and the spacing between them.</p>	 <p>Define Colour Scale Select the colour scale range to be applied to the thematic map.</p> <table border="1"> <thead> <tr> <th>Distance</th> <th>Colour</th> </tr> </thead> <tbody> <tr> <td>0.0400 m</td> <td></td> </tr> <tr> <td>0.0100 m</td> <td></td> </tr> <tr> <td>-0.0100 m</td> <td></td> </tr> <tr> <td>-0.0400 m</td> <td></td> </tr> </tbody> </table> <p>Fn OK Insert Delete Fn</p>	Distance	Colour	0.0400 m		0.0100 m		-0.0100 m		-0.0400 m	
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<p>18</p>	<p>You're then asked to check that you're confirming the correct things. Hit OK then</p>	
<p>19</p>	<p>We get to the business end if the app. Tap on the coloured map and you'll bring up the distance between them.</p>	
<p>20</p>	<p>If you want to get a report of the comparison hit Fn then Tools. (You'll need to import the Inspect surfaces Style sheet first though. See Style Sheets Guide)</p>	

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