

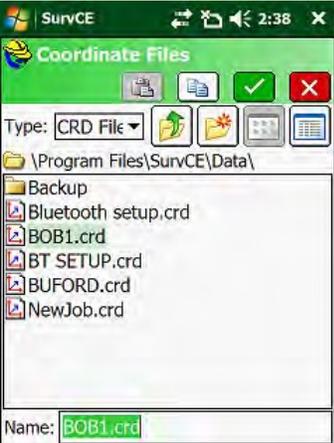
S320 and SurvCE RTK Base Unknown Location

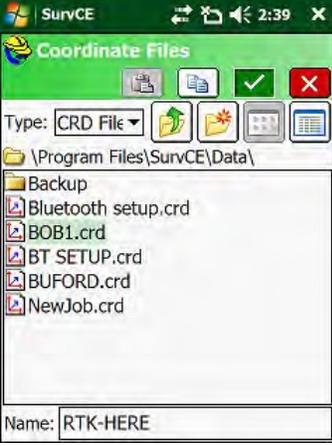
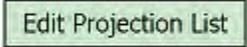
Part Number 874-0303-000 Released April 17, 2012

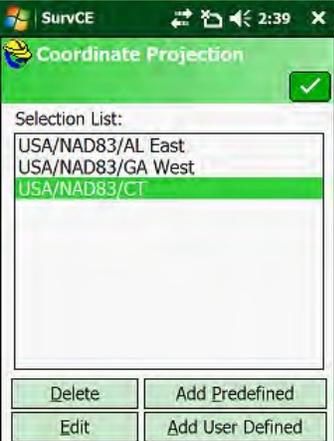
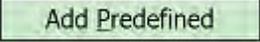
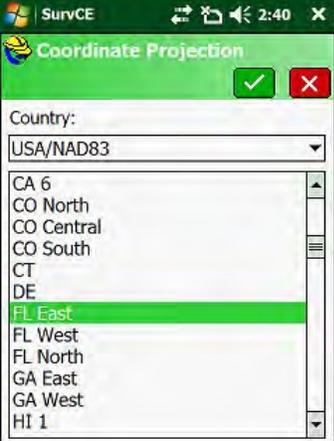
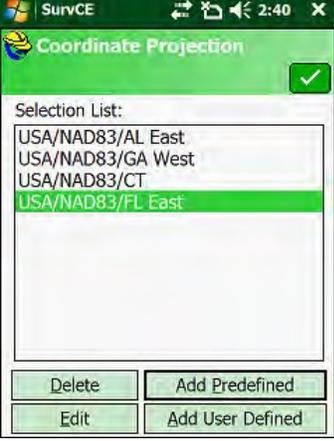
Overview

This document describes how to configure the S320 RTK base using SurvCE at an unknown location, perform a “**Read from GPS**” to obtain a starting RTK base position, configure the S320 RTK rover to receive RTK corrections from the RTK base, outlines the procedures to perform a RTK Localization with SurvCE, and demonstrates how to store points with SurvCE and the S320 RTK rover. This quick reference guide outlines the procedures using S320’s with the internal 400 MHz UHF radios.

Procedure

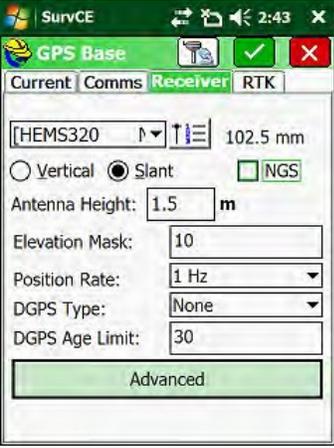
Screenshot or Graphic	Step
	<p>1. Turn on the XF1 data controller, start the SurvCE software.</p> <p>From the SurvCE main menu, Select File 1 Job</p>
	<p>2. Coordinates Files menu,</p> <p>A list of all the current jobs stored in the data controller are displayed, the last used job is selected by default.</p> <p>To create a new job, using the stylus, tap into the Name: template, the virtual keyboard will pop open,</p>

Screenshot or Graphic	Step
	<p>3. Enter Data menu,</p> <p>Using the stylus, tap into the Enter Data template, using the virtual keyboard, enter a suitable name for the new job, in this example: RTK-HERE,</p> <p>Select/Tap , the virtual keyboard will close,</p>
	<p>4. Coordinate Files menu,</p> <p>Type: CRD Files</p> <p>Name: RTK-HERE</p> <p>Select/Tap  to create the new job,</p>
	<p>5. Job Settings System menu,</p> <p>Select the Distance units,</p> <p>Select the Angle preference,</p> <p>Last used Projection is displayed,</p> <p>To change the Projection,</p> <p>Select/Tap ,</p>

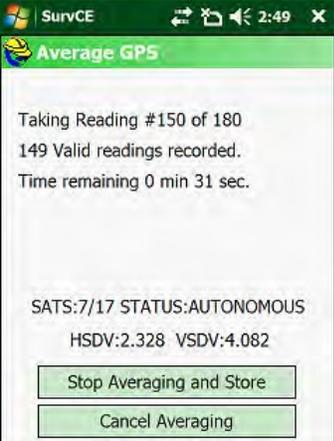
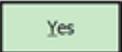
Screenshot or Graphic	Step
	<p>6. Coordinate Projection menu, Selection List:</p> <p>Recently used coordinate projections are listed, to select a different predefined coordinate projection. Select/tap,</p> <p style="text-align: center;"></p>
	<p>7. Coordinate Projection menu, Country: USA/NAD83</p> <p>Browse the list of coordinate projections, Select the appropriate state/zone for your projects location. In this example,</p> <p>FL East was selected, tap </p>
	<p>8. Coordinate Projection menu, Selection List:</p> <p>USA/NAD83/FL East was added to the list, to use this coordinate projection, select USA/NAD83/FL East</p> <p>Then tap </p>

Screenshot or Graphic	Step
 <p>The screenshot shows the 'Job Settings' dialog box with the 'System' tab selected. The 'Distance' is set to 'Metric', 'Angle' to 'Degrees, Minutes, Secs', and 'Zero Azimuth Setting' to 'North'. The 'Projection' is set to 'USA/NAD83/FL East'.</p>	<p>9. The user is returned to, Job Settings System menu,</p>
 <p>The screenshot shows the 'Job Settings' dialog box with the 'Options' tab selected. A list of options is shown, with 'Time Stamp Each Point' and 'Store GPS Accuracy in Raw File' checked. Other options include 'Use Control File', 'Use Code Table for Description', 'Recall Job Road Files', 'Recall Job Localization', 'Auto Load Map', 'Auto Save Map', and 'Recall Image Database'.</p>	<p>10. Job Settings Options menu</p> <p>Browse the list of available options, select the options as needed. For RTK surveys, select the options:</p> <ul style="list-style-type: none"> ✓ Time Stamp Each Point ✓ Store GPS accuracy in Raw File. <p>When all required options have been selected, Tap user is returned to the SurvCE main menu.</p>
 <p>The screenshot shows the SurvCE main menu with 'JOB:RTK-HERE' at the top. The 'Equip' menu is highlighted, showing options: 1 Total Station, 2 GPS Base, 3 GPS Rover, 4 GPS Utilities, 5 Configure, 6 Localization, 7 Monitor/Skyplot, 8 Tolerances, 9 Peripherals, and 0 About SurvCE.</p>	<p>11. The following steps outline the procedures to configure the S320 RTK Base.</p> <p>Setup up the S320 RTK Base over the survey point in the field; turn on the S320 GNSS receiver.</p> <p>Select Equip 2 GPS Base</p>

Screenshot or Graphic	Step
	<p>12. GPS Base Current menu, Select the options, Manufacturer: Hemisphere GNSS Model: Eclipse II S320</p>
	<p>13. GPS Base Comms menu, Type: Bluetooth BT Type: Windows Mobile Device: S320 184xxxx</p> <p>Where the Device: S320184xxxx will be the actual serial number of your S320 Base.</p>
	<p>14. GPS Base Comms menu, From Device: using the stylus, tap the down arrow, select S320 184xxxx BASE; this will be the actual serial number of your S320 RTK Base.</p> <p>Select/Tap,  icon to establish the Bluetooth connection between SurvCE and the S320 RTK Base.</p> <p>On the S320 RTK Base, the Bluetooth LED will be solid blue, indicating a successful connection.</p>

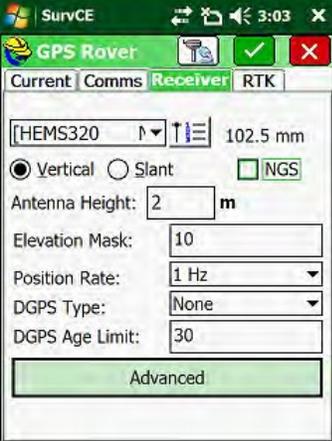
Screenshot or Graphic	Step
	<p>15. GPS Base Receiver menu,</p> <p>Select the HEMS320 antenna model, measure and enter the RTK Base antenna height. Select Vertical or Slant measurement type.</p> <p>If using a tripod/tribrach setup, select Slant.</p> <p>If using a 2-meter Fixed Height GPS tripod, select Vertical.</p> <p>For most all RTK surveys, the default Elevation Mask: 10, Position Rate: 1 Hz, DGPS Type: None, DGPS Age Limit: 30 are acceptable.</p>
	<p>16. GPS Base RTK menu,</p> <p>Device: Internal nL400 Microhard</p> <p>Message Type: ROX</p> <p>This is the default Hemisphere GNSS RTK message type. Other supported RTK message types options include: CMR and RTCMV3.</p> <p>To check the current UHF radio frequency, tap the  tools menu icon,</p>
	<p>17. GPS Base RTK menu,</p> <p>Configure RTK Device</p> <p>Selecting Modem/Radio</p>

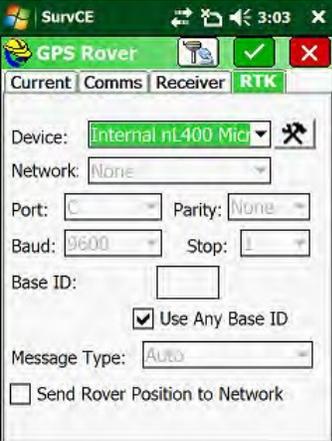
Screenshot or Graphic	Step
	<p>18. Configure Internal nL400 Microhard</p> <p>Power: 1 Watt (this is the max power setting for the internal radio).</p> <p>Current Frequency: 445.4500</p> <p>The user can enter the frequency, as permitted in their FCC Radio Station License. To change the frequency, using the virtual keyboard, manually enter the numerical frequency.</p> <p>Select/Tap  to set the radio frequency.</p>
	<p>19. GPS Base RTK menu, Configuring Device</p>
	<p>20. Base Configuration menu,</p> <p>Two Base Configuration options are available:</p> <p>From Known Position</p> <p>From New Position</p> <p>In this example, the RTK Base is setup over an unknown location, the user does not know the GPS coordinates; select the option: From New Position,</p> <p>Then select the option:</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;">Read From GPS</div>

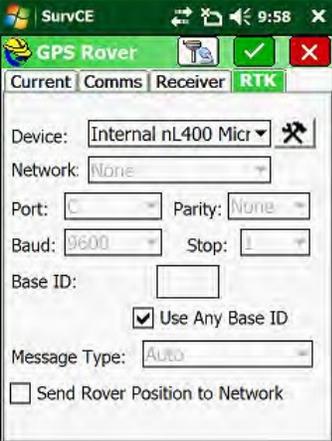
Screenshot or Graphic	Step
	<p>21. Average GPS menu, Available options are: By Number (of measurements), By Time in Min</p> <p>Select the option you prefer, enter a suitable numerical value. In this example, By Time in Min option was selected, 3.000 minutes was entered.</p> <p>Select/Tap  to start the Average GPS readings,</p>
	<p>22. Average GPS menu, Taking Readings...</p> <p>In this example, By Time in Min option was selected, 3.000 minute duration was entered.</p> <p>Status of the Average GPS process is displayed to the user.</p>
	<p>23. Base Configuration menu, Upon completion of the Average GPS process, the resulting Latitude, Longitude and Ellipsoid Hgt are displayed, Enter a Broadcast ID: 1 Continue with Base Setup?</p> <p>Select/Tap </p>

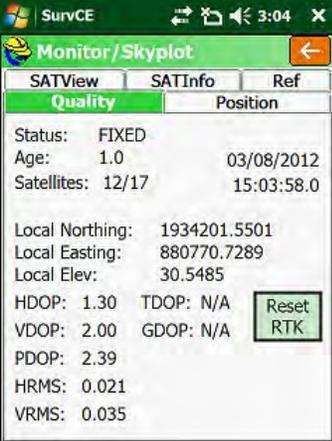
Screenshot or Graphic	Step
 <p>The screenshot shows the 'Configuring base' dialog box in SurvCE. The title bar reads 'Configuring base'. The main text says 'Saving configuration. Please wait'. There is a green progress bar and a 'Cancel' button at the bottom.</p>	<p>24. Equip 2 GPS Base</p> <p>Configuring base Saving Configuration. Please wait</p>
 <p>The screenshot shows a dialog box titled 'Base Configuration Successful. Save Settings to File?'. It has 'Yes' and 'No' buttons. The background shows the 'Equip' menu with '1 Total Station' and '6 Localization' options.</p>	<p>25. Equip 2 GPS Base</p> <p>Base Configuration Successful. Save Settings to a File? Select/Tap <input type="button" value="Yes"/></p> <p>This option lets the user recall the RTK Base position at a later time, using the original Read from GPS position.</p>
 <p>The screenshot shows the 'Base Station File' dialog box. The 'Type' is set to 'REF File'. The file list shows 'Backup' and 'BUFORD.ref'. The 'Name' field at the bottom contains 'RTK-HERE.ref'.</p>	<p>26. Base Station File</p> <p>Type: REF File Name: RTK-HERE</p> <p>By default, SurvCE will use the current job name, RTK-HERE.ref</p> <p>The user can change the name, but the .ref file extension must be used.</p> <p>Select/Tap <input checked="" type="checkbox"/></p>

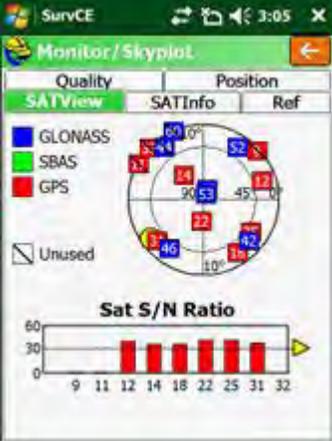
Screenshot or Graphic	Step
	<p>27. This completes the S320 RTK Base setup. The user is returned to the SurvCE main menu.</p> <p>On the S320 RTK Base, the UHF/GSM LED will be flashing red, indicating RTK Base data is being transmitted over the radio. The GPS LED will be solid yellow, indicating a valid position. The Battery LED's will indicated current battery condition, (both should be green), the flashing green LED indicates which battery is in use.</p>
	<p>28. The following steps outline the steps to configure the S320 RTK Rover.</p> <p>From the SurvCE main menu, select: Equip 3 GPS Rover,</p>
	<p>29. GPS Rover Current menu, Select the options: Manufacturer: Hemisphere GNSS Model: Eclipse II S320</p>

Screenshot or Graphic	Step
	<p>30. GPS Rover Comms menu, Type: Bluetooth BT Type: Windows Mobile Device: S320 184xxxx</p> <p>Where the Device: S320184xxxx, Will be the serial number of your S320 Rover.</p>
	<p>31. GPS Rover Comms menu, Device: using the stylus, tap the down arrow, select S320 184xxxx ROV, the actual serial number of your S320 RTK Rover.</p> <p>Select/Tap  icon to establish the Bluetooth connection.</p> <p>On the S320 RTK Rover, the Bluetooth LED will be solid blue, indicating a successful connection.</p>
	<p>32. GPS Rover Receiver menu, Select the HEMS320 antenna model, Measure and enter the Rover antenna height. Typically, a fixed height 2-meter RTK survey pole is used.</p> <p>Select Vertical Antenna Height: 2.000 m</p> <p>For most RTK surveys, the default values for the Elevation Mask, Position Rate, DGPS Type: None and DGPS Age limit can be used.</p>

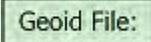
Screenshot or Graphic	Step
	<p>33. GPS Rover RTK menu, Device: Internal nL400 Microhard √ Use Any Base Message Type: Auto</p> <p>To check/verify the UHF radio frequency, Tap the  tools menu icon,</p>
	<p>34. GPS Rover RTK Configure RTK Device</p> <p>A series of status messages are displayed to the user...</p> <p>Retrieving settings</p>
	<p>35. Configure Internal nL400 Microhard radio</p> <p>Power: 1 Watt (this is the max power). Current Frequency: 445.4500</p> <p>Note: this frequency MUST match the frequency set in the S320 RTK Base's internal radio. This enables the S320 RTK rover's internal radio to receive the RTK corrections from the S320 RTK Base.</p> <p>To set the Frequency, select/tap </p>

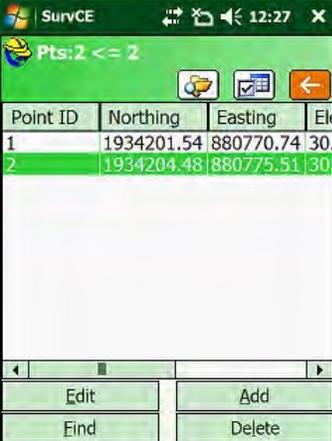
Screenshot or Graphic	Step
	<p>36. GPS Rover RTK menu, Configure RTK Device Configuring device Device Configured</p>
	<p>37. User is returned to the GPS Rover RTK menu, To save all the GPS Rover configuration settings, Select/Tap </p>
	<p>38. GPS Rover RTK menu, A series of SurvCE status messages are displayed to the user: Configuring Rover Selecting modem/radio Sending Data Configuring Rover Saving Configuration. Please wait Save Complete.</p>

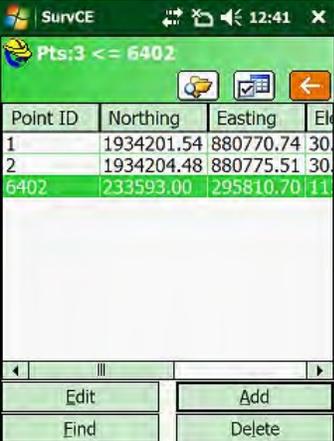
Screenshot or Graphic	Step
	<p>39. The user is returned to the SurvCE main menu.</p> <p>This completes the steps to configure the S320 RTK Rover with SurvCE.</p> <p>On the S320 RTK Rover, Status LED's UHF/GSM LED flashing Red = RTK Float UHF/GSM LED flashing green = RTK Fix GPS LED solid yellow = valid GPS position</p>
	<p>40. To view the current RTK Rover status through SurvCE, Select Equip Monitor/Skyplot</p>
	<p>41. Monitor / Skyplot Quality</p> <p>User can observe current RTK rover status: Fixed</p> <p>Age of corrections, number of satellites being used, local coordinates, DOP's, horizontal and vertical RMS values.</p> <p>Status: Fixed is the best type of RTK solution available, the HRMS and VRMS values are an indication of the RTK position quality.</p>

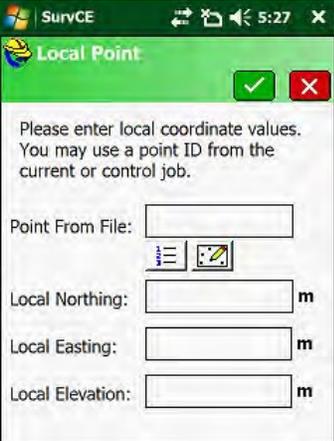
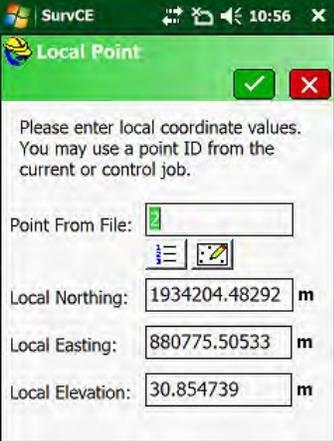
Screenshot or Graphic	Step																				
 <p>The screenshot shows the 'Monitor/Skyplot' window with the 'Position' tab selected. It displays the following data:</p> <ul style="list-style-type: none"> Latitude: N 41°29'02.85843" Longitude: W 72°51'05.53969" Ellipsoid Elev: 30.5435 GEOID: No Geoid file loader Orthometric Elev: No Geoid file Localization File: None Base Shift: None Local Elev: 30.5435 Local Northing: 1934201.5515 Local Easting: 880770.7382 	<p>42. Monitor/Skyplot Position</p> <p>User can observe the RTK Rover's Latitude, Longitude, Ellipsoid Elev, if a Geoid model file is loaded, Orthometric Elev will be displayed. Local Northing, Easting coordinate details.</p>																				
 <p>The screenshot shows the 'Monitor/Skyplot' window with the 'Ref' tab selected. It displays the following data:</p> <ul style="list-style-type: none"> Reference Station Coordinates Latitude: N 41°29'02.93798" Longitude: W 72°51'05.32440" Ellipsoid Hgt: 32.3790 Distance to Ref: 5.596 m Antenna Type: 1.500 HEMS320 NONE Northing: 1934204.4829 Easting: 880775.5053 Elevation: 30.8547 	<p>43. Monitor/Skyplot Ref</p> <p>User can observe the Reference Station Coordinates details: Latitude, Longitude, and Ellipsoid Hgt. This is a good place to check/verify the RTK Rover is using the correct RTK Base position, the RTK rover radio is listening to your RTK Base.</p> <p>Distance to Ref: and RTK Base Antenna Type/Antenna HI details are displayed.</p>																				
 <p>The screenshot shows the 'Monitor/Skyplot' window with the 'SATView' tab selected. It displays a graphical skyplot of GNSS satellites and a bar chart for Sat S/N Ratio.</p> <p>Sat S/N Ratio Chart:</p> <table border="1"> <thead> <tr> <th>Sat ID</th> <th>S/N Ratio</th> </tr> </thead> <tbody> <tr><td>9</td><td>~45</td></tr> <tr><td>11</td><td>~45</td></tr> <tr><td>12</td><td>~45</td></tr> <tr><td>14</td><td>~45</td></tr> <tr><td>18</td><td>~45</td></tr> <tr><td>22</td><td>~45</td></tr> <tr><td>25</td><td>~45</td></tr> <tr><td>31</td><td>~45</td></tr> <tr><td>32</td><td>~45</td></tr> </tbody> </table>	Sat ID	S/N Ratio	9	~45	11	~45	12	~45	14	~45	18	~45	22	~45	25	~45	31	~45	32	~45	<p>44. Monitor/Skyplot SATView</p> <p>Graphical Skyplot of the current RTK Rover GNSS satellites in view.</p>
Sat ID	S/N Ratio																				
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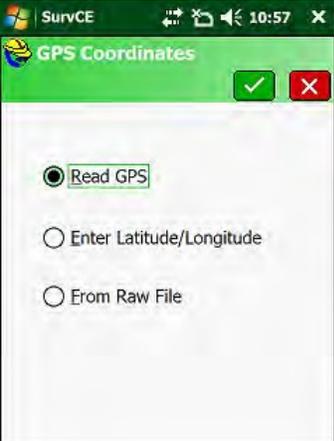
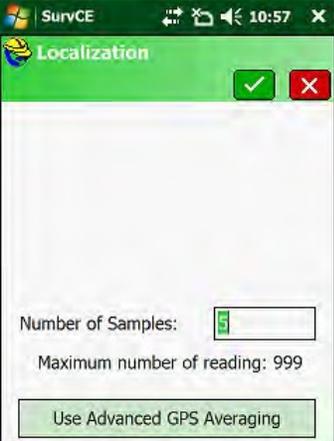
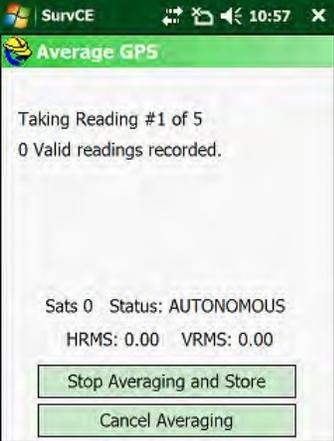
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PRN	TY...	AZI	ELV	S/N																																																														
1	GPS	0	0	0																																																														
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43*	GLN	19	81	51																																																														
	<p>46. Since the RTK Base used an Unknown GPS position, the RTK Rover MUST localize, Equip Localization</p> <p>Localization is a process that allows the user to shift the GPS measurements to a local coordinate system. Localization can be used to improve the local fit of your national coordinate system, (so your survey fits the local control), or to create a completely arbitrary coordinate system, (with new origin and axes).</p> <p>To adjust to local control: The RTK Rover must have a Fixed RTK Solution when observing the control points. Typically, the RTK Rover occupies a single, or multiple control points, storing the RTK Fixed GPS coordinates, associating the GPS coordinates to the local coordinate values.</p>																																																																	
	<p>47. Localization System</p> <p>Displays the current projection, selected when the job was created.</p>																																																																	

Screenshot or Graphic	Step
	<p>48. Localization GPS menu, Localization Method Multiple Point Method: Plane Similarity One Point Azimuth: State Plane Grid</p> <p>If the local control points are State Plane coordinates, and you want RTK derived Orthometric heights, you must attach a Geoid model to the Projection. To attach a Geoid Model,</p> <p>Select/Tap </p>
	<p>49. Geoid Separation File menu, Type: GSF File</p> <p>The GSF File is created on the office PC using the Carlson XPort utility S/w. The GSF File is a small manageable sized file that contains the Geoidal separations that encompass the project site. After the GSF file is created, it is copied to data controller's \\Program Files\\SurvCE\\Data\\ folder.</p> <p>The GSF file gets attached to the coordinate projection, enabling Orthometric elevations to be computed and stored with the point coordinates. If a GSF file is not attached to the Projection, only Ellipsoid Heights will be computed.</p> <p>After selecting a GSF File, Select/tap </p>
	<p>50. Localization Points menu,</p> <p>Typical field procedure, the S320 RTK Rover occupies the local control point, selects/Tap ADD.</p> <p>The local control point coordinates must be previously stored in the current Job's coordinate file before the RTK Rover can occupy the control points for Localization. The user cannot add control points using the Add button. ADD is the occupy function of the Localization process.</p> <p>To add control points/coordinates to the job, exit from the Localization menu, From the main menu, select 1File 3Points</p>

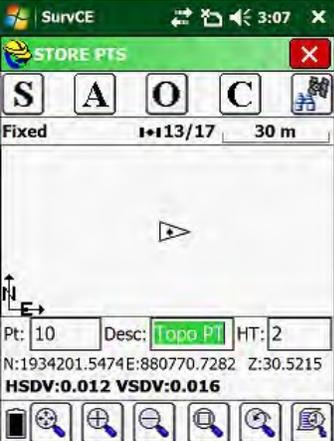
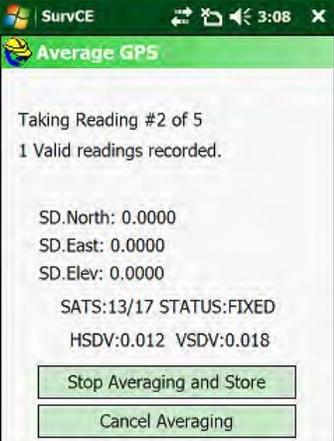
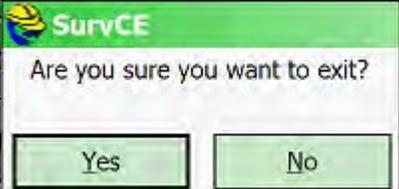
Screenshot or Graphic	Step
	<p>51. To add control points to the current job, so they can be used for the Localization, select File 3 Points menu,</p>
	<p>52. From the File 3 Points menu, select/tap .</p>
	<p>53. Add Point menu, Using the stylus, tap into the Point ID template, the virtual keyboard will pop open, Enter the Point ID, Northing, Easting, Elevation, and Description for the control point, To store the Point, select/tap .</p>

Screenshot or Graphic	Step
	<p>54. From the File 3 Points menu, If you need to add additional control points, select/Tap ,</p> <p>After entering all the control points required to the current job, select/tap , user is returned to the main menu, The user can return to the Equip Localization menu, resume the Localization process.</p>
	<p>55. From the main menu, select Equip Localization,</p>
	<p>56. Return to the Localization Points menu, The S320 RTK Rover occupies the local control point, When ready, tap the  button,</p>

Screenshot or Graphic	Step																
	<p>57. Local Point menu,</p> <p>Select/Tap the  points icon,</p>																
 <table border="1" data-bbox="203 892 537 997"> <thead> <tr> <th>Point ID</th> <th>Northing</th> <th>Easting</th> <th>El</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1934201.54</td> <td>880770.74</td> <td>30</td> </tr> <tr style="background-color: #e0ffe0;"> <td>2</td> <td>1934204.48</td> <td>880775.51</td> <td>30</td> </tr> <tr> <td>6402</td> <td>233593.00</td> <td>295810.70</td> <td>11</td> </tr> </tbody> </table>	Point ID	Northing	Easting	El	1	1934201.54	880770.74	30	2	1934204.48	880775.51	30	6402	233593.00	295810.70	11	<p>58. Point Details menu,</p> <p>Select the Point ID of the local control point to be physically occupied by the RTK Rover, to be included in the Localization.</p> <p>Select/Tap </p>
Point ID	Northing	Easting	El														
1	1934201.54	880770.74	30														
2	1934204.48	880775.51	30														
6402	233593.00	295810.70	11														
	<p>59. Local Point menu,</p> <p>When ready to start taking RTK observations on the Local Point (2),</p> <p>Select/Tap </p>																

Screenshot or Graphic	Step
	<p>60. GPS Coordinates menu, Select the option READ GPS</p> <p>Next, select/tap </p>
	<p>61. Localization menu, Enter the Number of Samples: desired Plumb and level the S320 RTK pole over the control point, it may help to use Bi-Pod legs to help keep the RTK Rover plumb and level over the control point during the Localization process.</p> <p>Select/Tap </p>
	<p>62. Average GPS Taking Readings...</p> <p>In actual practice, the S320 RTK Rover should be tracking at least five SV's and must have a FIXED RTK Status.</p>

Screenshot or Graphic	Step
	<p>63. Typically, after storing the first control point in the localization process, the RTK Rover moves to the next control point, occupies the point, plumb and levels the RTK Pole, select/taps Add, selects the Point ID of the control point, Selects Read From GPS. Typically, 3-5 control points are occupied during the Localization process. After a sufficient number of control points have been occupied, select Save the localization results can be reviewed, suspicious points can be toggled On/Off, bad control points can be Deleted. If making changes to the Localization, be sure to Save. This completes the overview of the Localization. For addition details on Localization, refer to the SurvCE manual.</p> <p>Select/Tap  to exit the Localization menu.</p>
	<p>64. After successfully completing the Localization process, the user can Store Points, Stake Points, etc.</p> <p>To Store Points, Select, Survey 1 Store Points</p>

Screenshot or Graphic	Step
	<p>65. Store Points menu,</p> <p>Before storing points with the S320 RTK Rover, enter a starting PT: number, enter a suitable description, enter/confirm the RTK Rover Antenna Height.</p> <p>The RTK rover should have a Fixed RTK solution, observe the HSDV and VSDV values, when ready to Store the Point, Plumb and level the RTK antenna/pole over the point of interest,</p> <p>Select/Tap , to store the point,</p>
	<p>66. If the user configured the Averaging settings in Average GPS Menu </p> <p>The user will observe the Taking Reading status. Upon the completion of the 5 readings, the point will auto store.</p> <p>Continue storing points as needed.</p>
	<p>67. When the user has completed the RTK survey, return to the main menu,</p> <p>Select File <u>0</u>Exit</p>  <p>Select Yes</p>

Further Information

The Precision Products Technical Support team in Scottsdale has coordinated defining these Quick Reference Guides. You can contact Precision Products Technical Support at techsupport@hemispheregnss.com for further information.

For additional information on SurvCE, please visit the Carlson SurvCE web site at:

www.survce.com

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