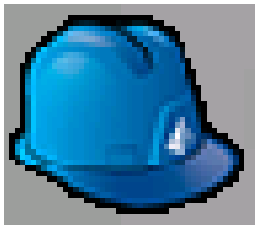
LTI Laser Interface to

Carlson's SurvCE

for Windows Mobile
Quick Reference Guide

LASER TECHNOLOGY INC

Overview



Carlson's SurvCE is a Windows Mobile application serving the mapping and GIS industry. In addition to a full interface to conventional surveying equipment and GPS, it also supports the LaserTech TruPulse instruments.

Compatible products

- TruPulse 200, 360, 360R & 200X
- SurvCE ver 6.x

Type of Laser Methods available in SurvCE 6.0

- Distance/Angle
  Measure Slope Distance, Inclination & Azimuth
- Intersect
  Measure Azimuth from two known locations
- 2 Point
  Measure Distance from two known locations

Setting up the Connection

1. Using the Bluetooth Manager on your Windows Mobile device, connect your TruPulse laser and note the COM port number assigned to it. For more info on this procedure, see:
2. Start the SurvCE app and open a new or existing Job (Fig.1)
3. Tap the Equip button and tap Peripherals or type 9 (Fig.2)
4. Select the Laser tab, check the Active box and choose TruPulse from the pull-down list for Type (Fig.3)
5. Tap the Comm Setup button and choose Type: Bluetooth; BT Type: Windows Mobile; and select your laser from the list under Device (Fig.4).
6. Tap the Green check marks back out to the main menu
7. If using a TruPulse 360 model, make sure Declination is applied in the laser

Figure 1

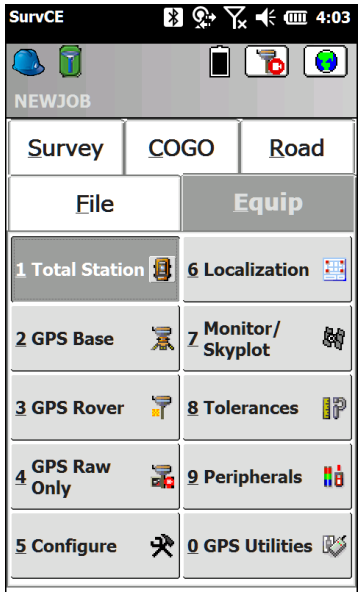


Figure 2

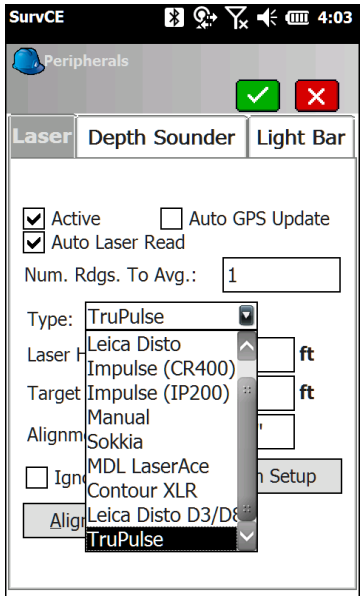


Figure 3

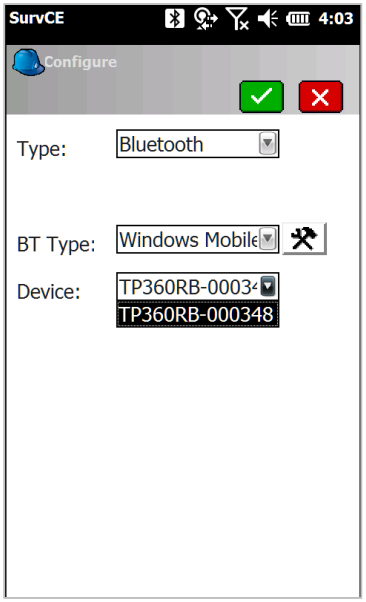


Figure 4

Taking a Distance/Angle Offset

1. From the main screen, choose the Survey tab (Fig.5)
2. Tap the Store Points button to open the live map screen(Fig.6). If GPS is active you will see coordinates displayed at the bottom and a triangle around your location on the map
3. To measure an offset to a point with the laser, tap the “O” button and then select Distance/Angle from the Method tab (Fig.7) *NOTE: this method works with any of the TruPulse 360 models with an electronic compass
4. Aim at the target with the laser and tap the Read Laser button to fire it. (Fig.8)

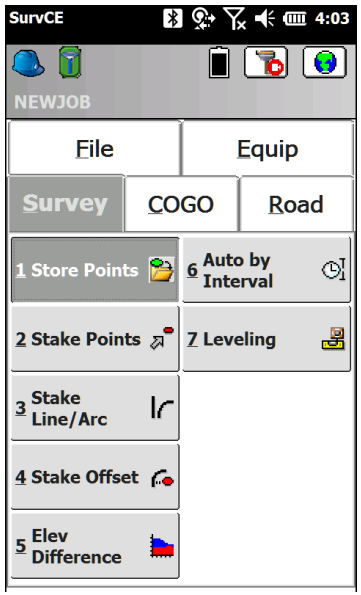


Figure 5

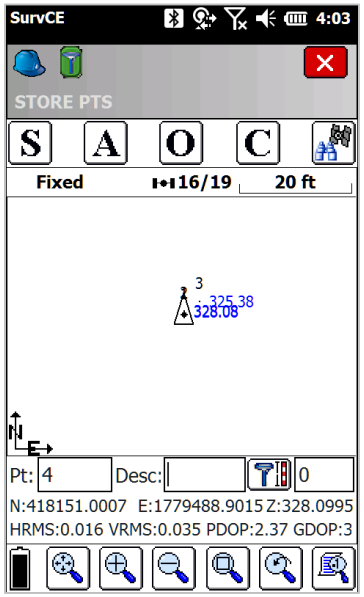


Figure 6

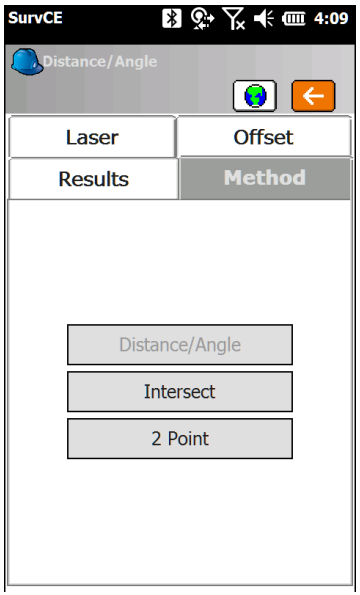


Figure 7

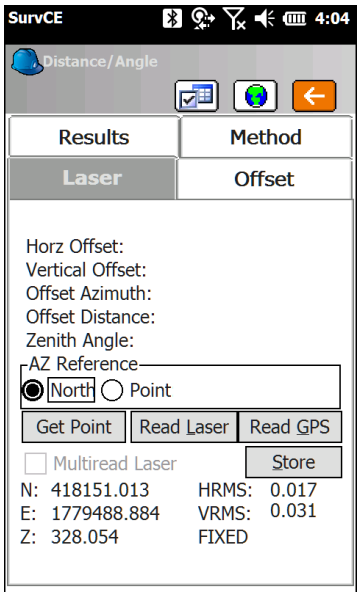


Figure 8

Taking a Distance/Angle Offset

1. The data will populate the fields (Fig.9)
2. Tap on the Results tab and enter in the Antenna Height and Vertical Diff to the point, as well as any Description (Fig.10)
3. Tap the Store button to save the offset point and return to the live map screen. The new point will be displayed (Fig.11)
4. Repeat this procedure for as many offsets points as are needed

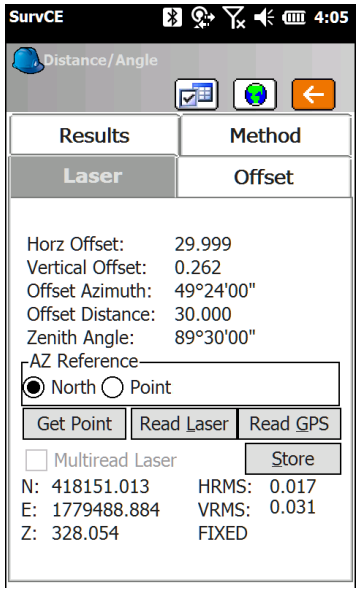


Figure 9

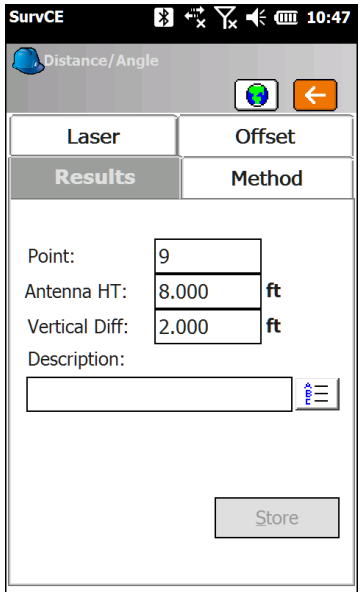


Figure 10

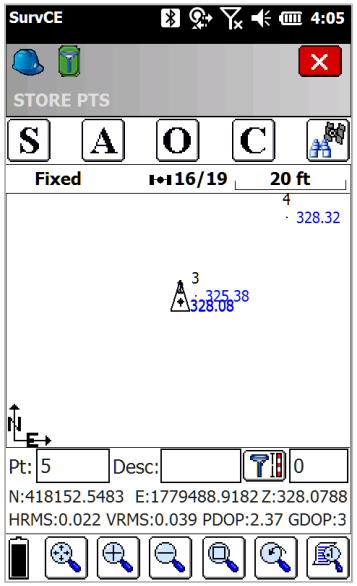


Figure 11

Taking an Intersect Offset

1. From the Offset screen, choose the Method tab and select Intersect (Fig.12)
2. The coordinates for Point 1 should display and tap the Read Dist 1 button to measure from here (Fig.13)
3. Read the second GPS point and then tap the Read Dist 2 button to measure to the feature from this location (Fig.14)
4. Make sure the Results tab displays the correct data and Store the point (Fig.15)

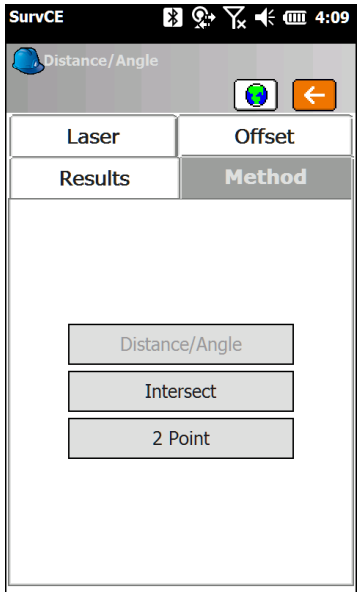


Figure 12

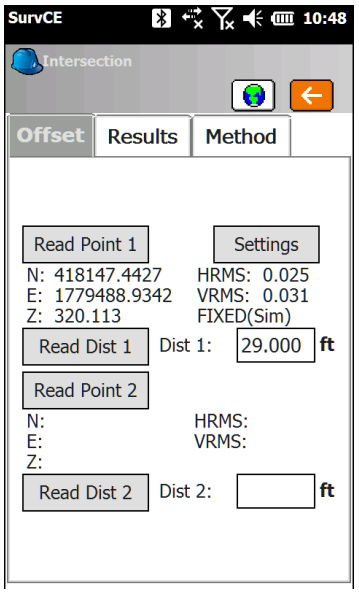


Figure 13

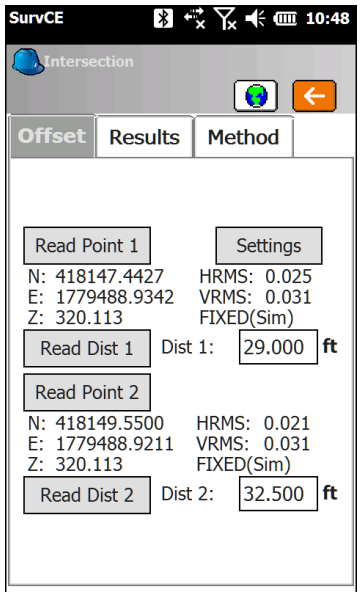


Figure 14

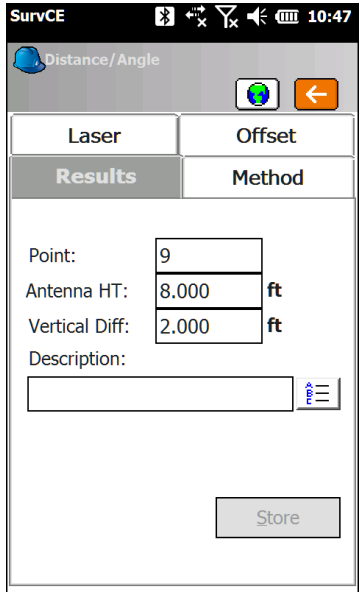


Figure 15

Taking a 2 Point Offset

1. From the Offset screen, choose the Method tab and select 2 Point (Fig.16)
2. Generate the coordinates for Point 1 and two by occupying them and tapping the appropriate Read Point buttons (Fig.17)
3. Tap the Read Dist button to measure to the feature with the laser, then specify whether the target is Straight, Right or Left of the line between the two points (Fig.17)
4. Make sure the Results tab displays the correct data and Store the point (Fig.18)

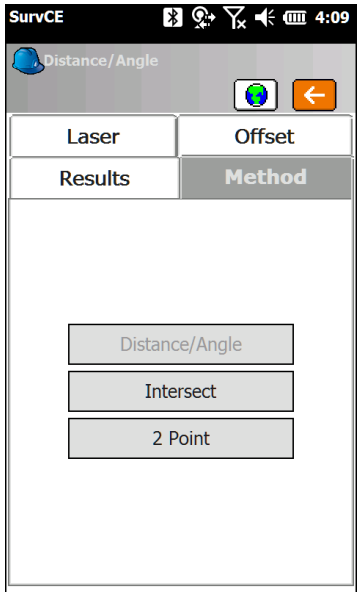


Figure 16

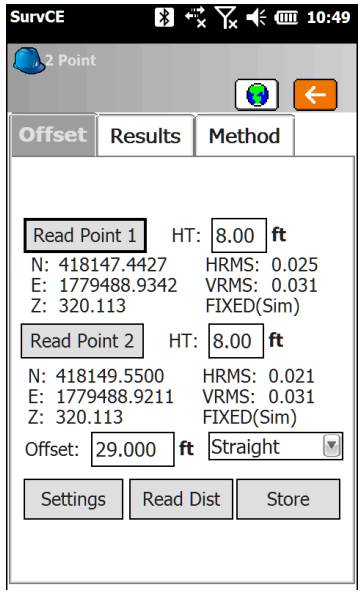


Figure 17

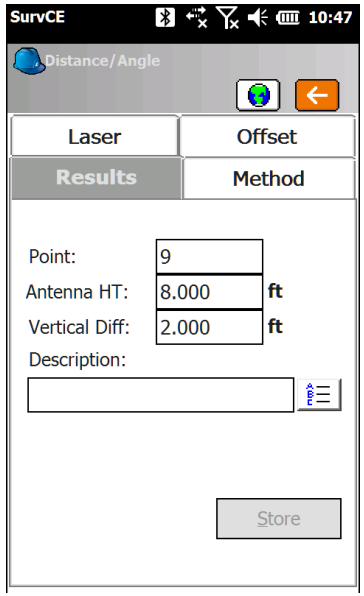
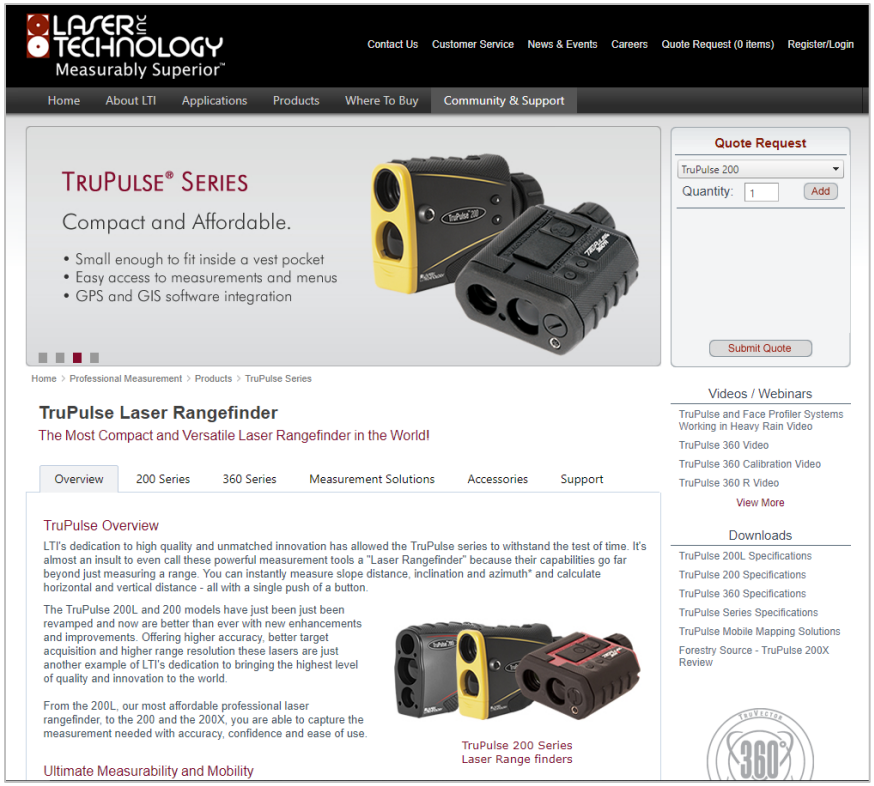


Figure 18

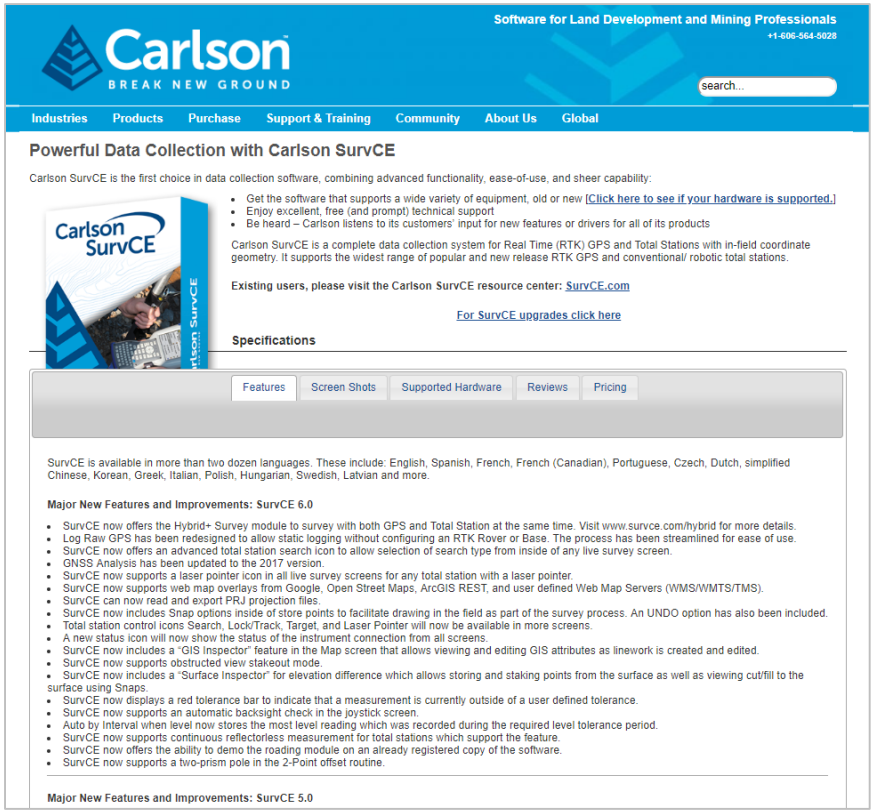
Product Resources

Product Page/User's Guides:

https://www.lasertech.com/TruPulse-Laser-Rangefinder.aspx



http://www.carlsonsw.com/products/data-collection/survce/



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