

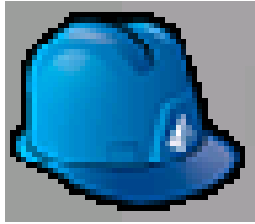


LTI Laser Interface to  
**Carlson's SurvCE**

for Windows Mobile  
Quick Reference Guide



# 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

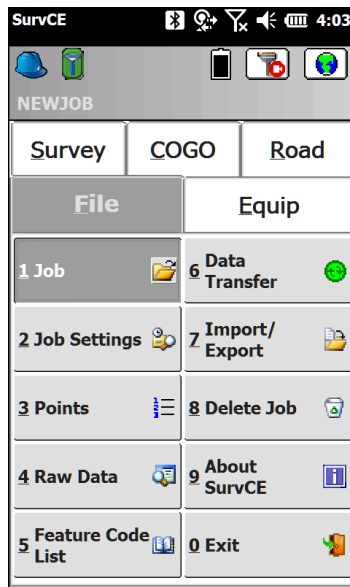


Figure 1

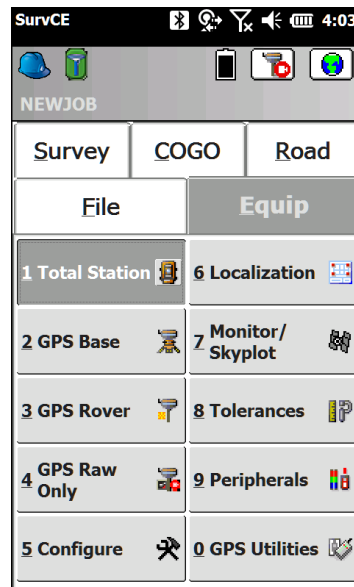


Figure 2

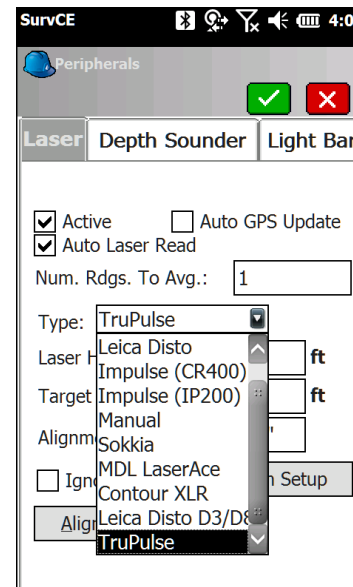


Figure 3

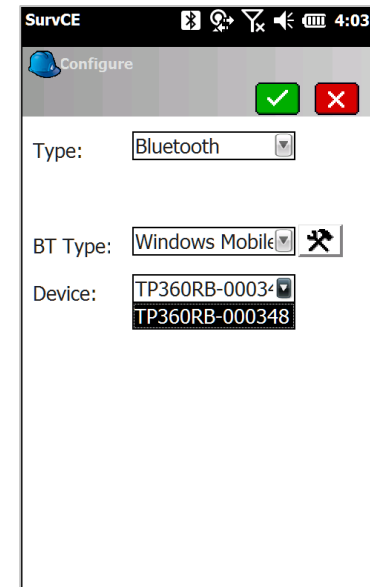


Figure 4

# 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)

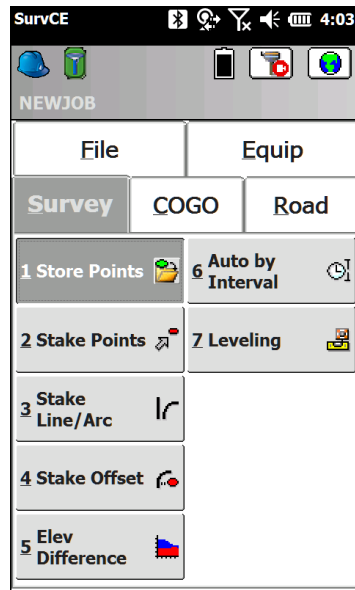


Figure 5

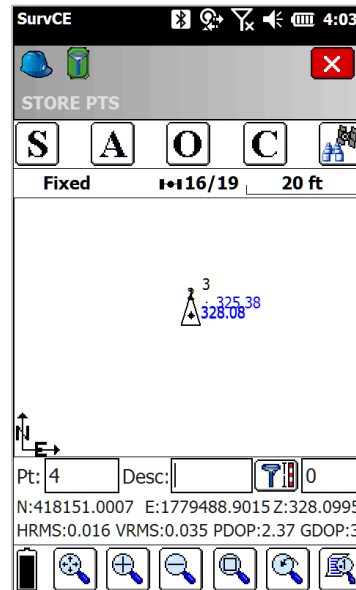


Figure 6

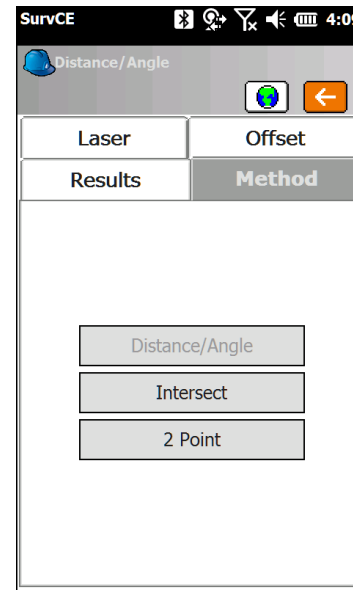


Figure 7

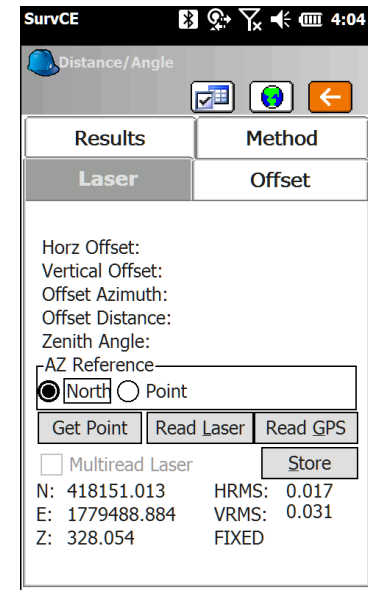


Figure 8

# 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

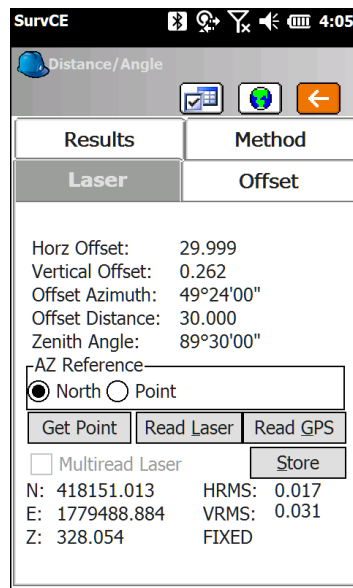


Figure 9

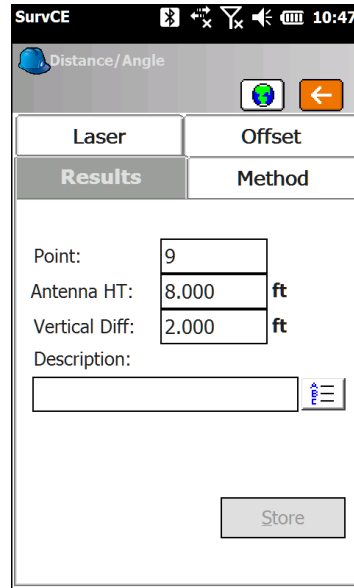


Figure 10

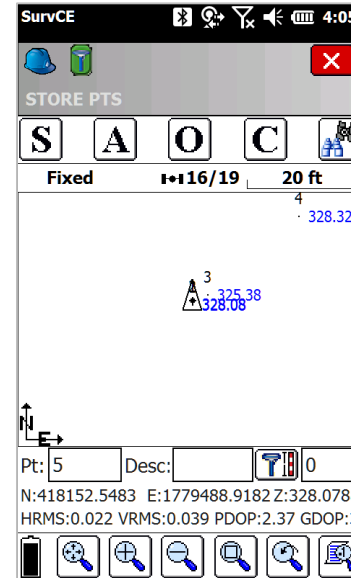


Figure 11

# 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)

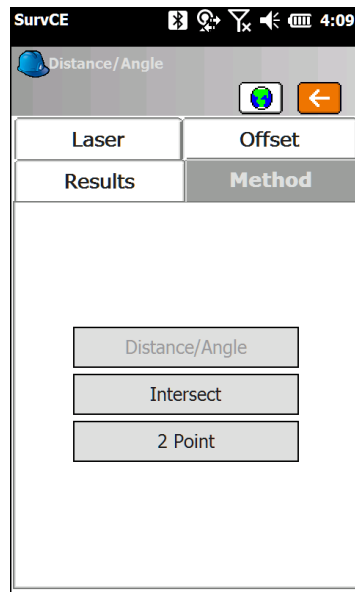


Figure 12

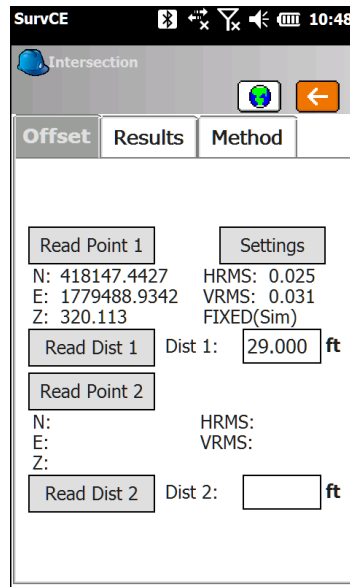


Figure 13

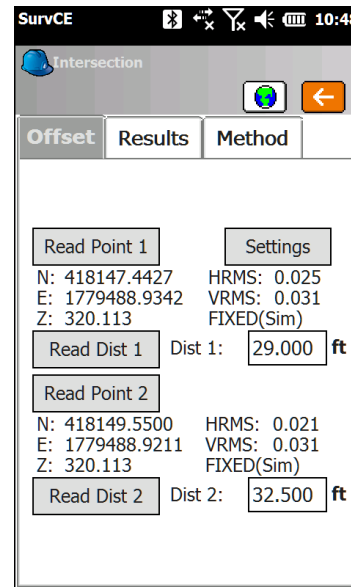


Figure 14

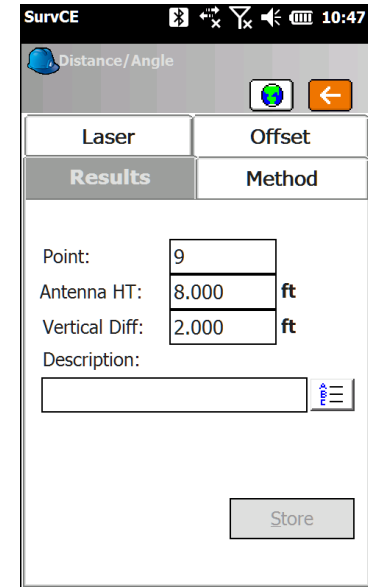


Figure 15

# 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)

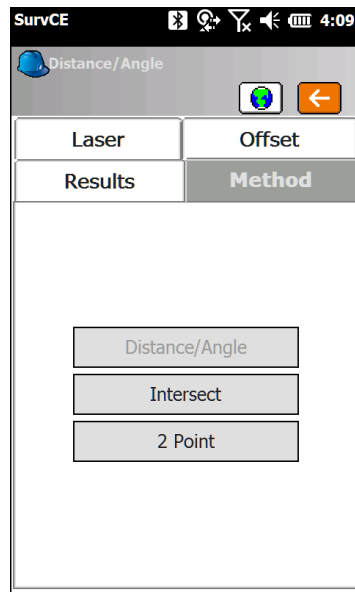


Figure 16

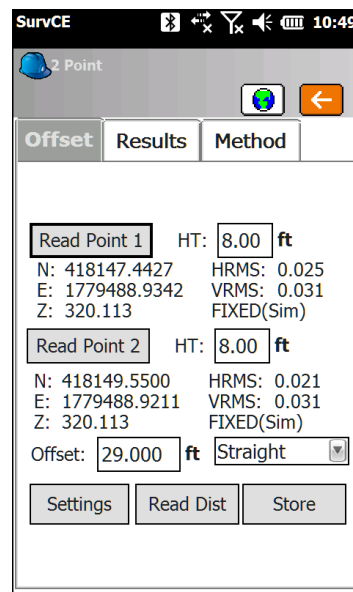


Figure 17

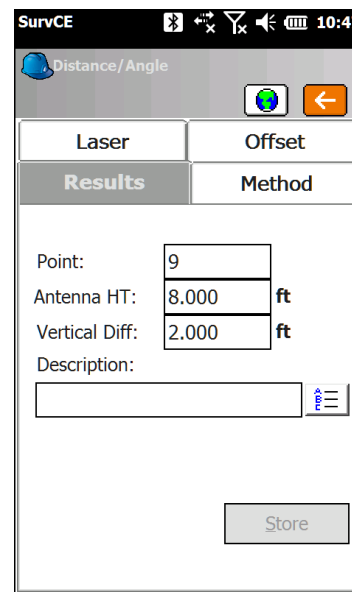


Figure 18

# Product Resources

Product Page/User's Guides:

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

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## TRUPULSE® SERIES

Compact and Affordable.

- Small enough to fit inside a vest pocket
- Easy access to measurements and menus
- GPS and GIS software integration

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TruPulse 200

Quantity:

Home > Professional Measurement > Products > TruPulse Series

### TruPulse Laser Rangefinder

The Most Compact and Versatile Laser Rangefinder in the World!

Overview 200 Series 360 Series Measurement Solutions Accessories Support

#### TruPulse Overview

LTI's dedication to high quality and unmatched innovation has allowed the TruPulse series to withstand the test of time. It's almost an insult to even call these powerful measurement tools a "Laser Rangefinder" because their capabilities go far beyond just measuring a range. You can instantly measure slope distance, inclination and azimuth\* and calculate horizontal and vertical distance - all with a single push of a button.

The TruPulse 200L and 200 models have just been revamped and now are better than ever with new enhancements and improvements. Offering higher accuracy, better target acquisition and higher range resolution these lasers are just another example of LTI's dedication to bringing the highest level of quality and innovation to the world.

From the 200L, our most affordable professional laser rangefinder, to the 200 and the 200X, you are able to capture the measurement needed with accuracy, confidence and ease of use.

Ultimate Measurability and Mobility

TruPulse 200 Series Laser Range finders

Videos / Webinars

- TruPulse and Face Profiler Systems Working in Heavy Rain Video
- TruPulse 360 Video
- TruPulse 360 Calibration Video
- TruPulse 360 R Video

Downloads

- TruPulse 200L Specifications
- TruPulse 200 Specifications
- TruPulse 360 Specifications
- TruPulse Series Specifications
- TruPulse Mobile Mapping Solutions
- Forestry Source - TruPulse 200X Review

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

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## Powerful Data Collection with Carlson SurvCE

Carlson SurvCE is the first choice in data collection software, combining advanced functionality, ease-of-use, and sheer capability:

- Get the software that supports a wide variety of equipment, old or new ([Click here to see if your hardware is supported.](#))
- Enjoy excellent, free (and prompt) technical support
- Be heard - Carlson listens to its customers' input for new features or drivers for all of its products

Carlson SurvCE is a complete data collection system for Real Time (RTK) GPS and Total Stations with in-field coordinate geometry. It supports the widest range of popular and new release RTK GPS and conventional/ robotic total stations.

Existing users, please visit the Carlson SurvCE resource center: [SurvCE.com](http://SurvCE.com)

[For SurvCE upgrades click here](#)

### Specifications

Features Screen Shots Supported Hardware Reviews Pricing

SurvCE is available in more than two dozen languages. These include: English, Spanish, French, French (Canadian), Portuguese, Czech, Dutch, simplified Chinese, Korean, Greek, Italian, Polish, Hungarian, Swedish, Latvian and more.

#### Major New Features and Improvements: SurvCE 6.0

- SurvCE now offers the Hybrid\* Survey module to survey with both GPS and Total Station at the same time. Visit [www.survce.com/hybrid](http://www.survce.com/hybrid) for more details.
- Log Raw GPS has been redesigned to allow static logging without configuring an RTK Rover or Base. The process has been streamlined for ease of use.
- SurvCE now offers an advanced total station search icon to allow selection of search type from inside of any live survey screen.
- GNSS Analysis has been updated to the 2017 version.
- SurvCE now supports a laser pointer icon in all live survey screens for any total station with a laser pointer.
- SurvCE now supports web map overlays from Google, Open Street Maps, ArcGIS REST, and user defined Web Map Servers (WMS/WMTS/TMS).
- SurvCE can now read and export PRJ projection files.
- SurvCE now includes Snap options inside of store points to facilitate drawing in the field as part of the survey process. An UNDO option has also been included.
- Total station control icons Search, Lock/Track, Target, and Laser Pointer will now be available in more screens.
- A new status icon will now show the status of the instrument connection from all screens.
- SurvCE now includes a "GIS Inspector" feature in the Map screen that allows viewing and editing GIS attributes as linework is created and edited.
- SurvCE now supports obstructed view stakeout mode.
- SurvCE now includes a "Surface Inspector" for elevation difference which allows storing and staking points from the surface as well as viewing cut/fill to the surface using Snaps.
- SurvCE now displays a red tolerance bar to indicate that a measurement is currently outside of a user defined tolerance.
- SurvCE now supports an automatic backsight check in the joystick screen.
- Auto by Interval when level now stores the most level reading which was recorded during the required level tolerance period.
- SurvCE now supports continuous reflectorless measurement for total stations which support the feature.
- SurvCE now offers the ability to demo the roading module on an already registered copy of the software.
- SurvCE now supports a two-prism pole in the 2-Point offset routine.

Major New Features and Improvements: SurvCE 5.0



# Contact Laser Technology, Inc.

Questions regarding the interface to SurvCE or our laser products?

Please contact us at:

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