LTI Laser Interface to

Softree's RoadEng

for Windows

Quick Reference Guide

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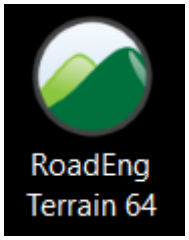
Overview



Softree's RoadEng is a Windows application serving the civil engineering industry. In addition to a full interface to conventional surveying equipment and GPS, it also supports the LaserTech TruPulse instruments.

Compatible products

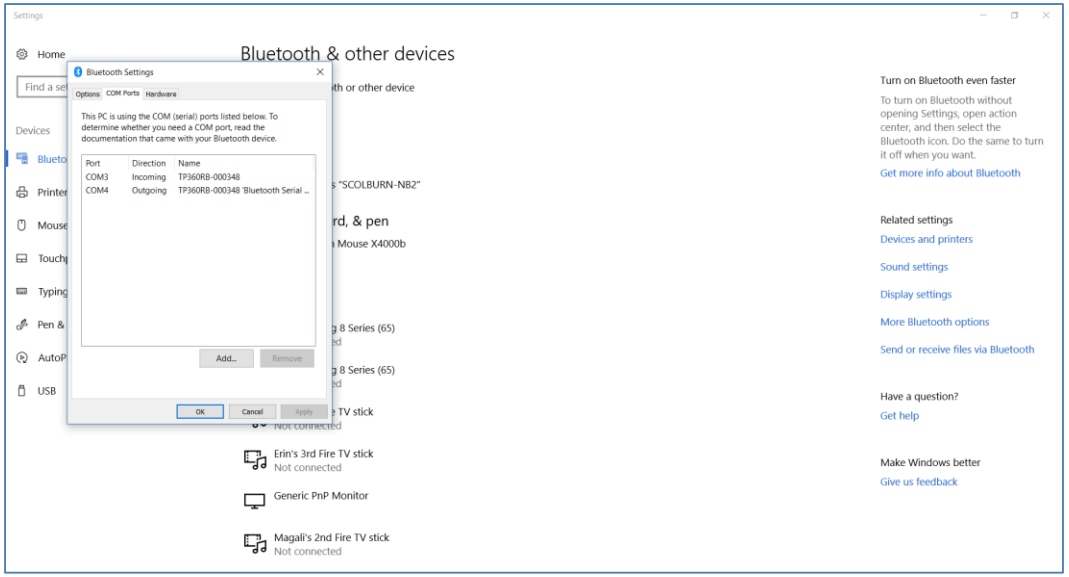
- TruPulse 360/R
- RoadEng ver 8.x

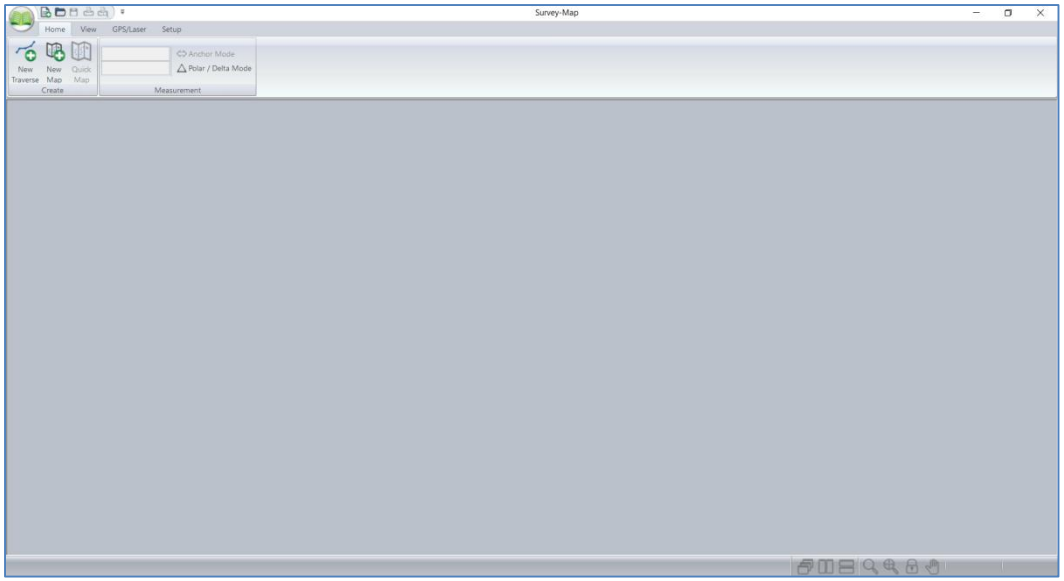
Type of Laser Methods available in RoadEng

- Distance/Azimuth
  - Measure Slope Distance, Inclination & Azimuth

Setting up the Connection

1. Using the Bluetooth Manager on your Windows device, connect your TruPulse laser and note the Outgoing COM port number assigned to it. In this case it is COM4

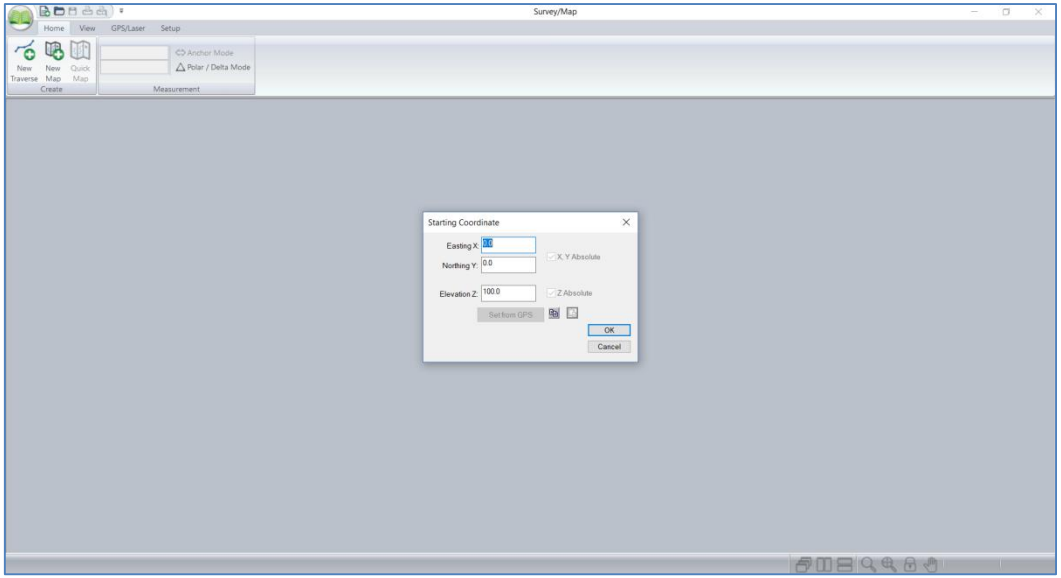


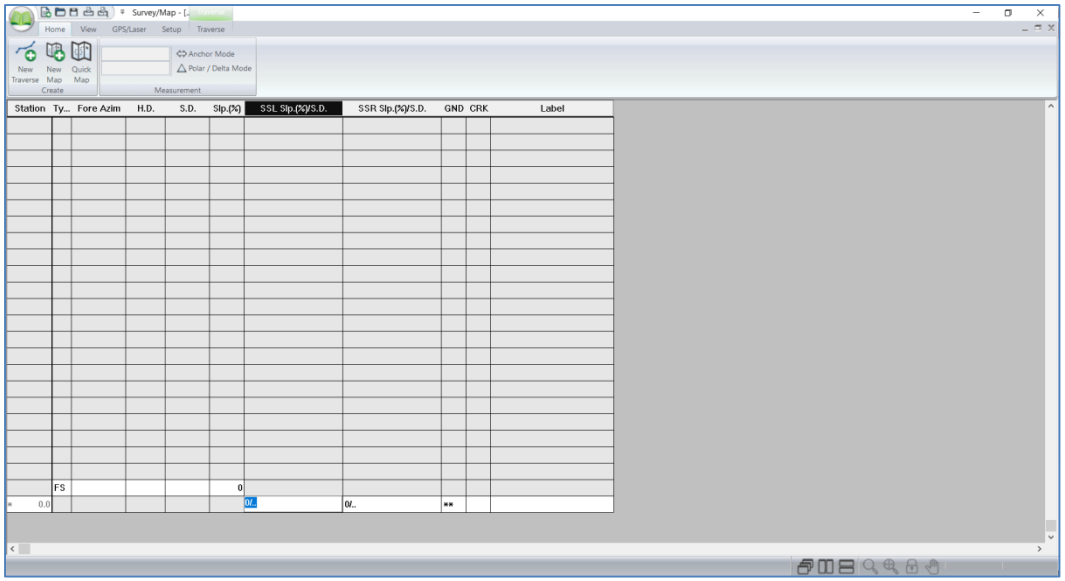


2. Start the RoadEng program on your Windows device and from the Home tab, click on New Traverse

Setting up the Connection

3. Establish your Starting Coordinate by either entering XYZ values or set it from GPS (If connected, refer to manual for instructions)





4. With the Traverse sheet open, click on the GPS/Laser tab along the top

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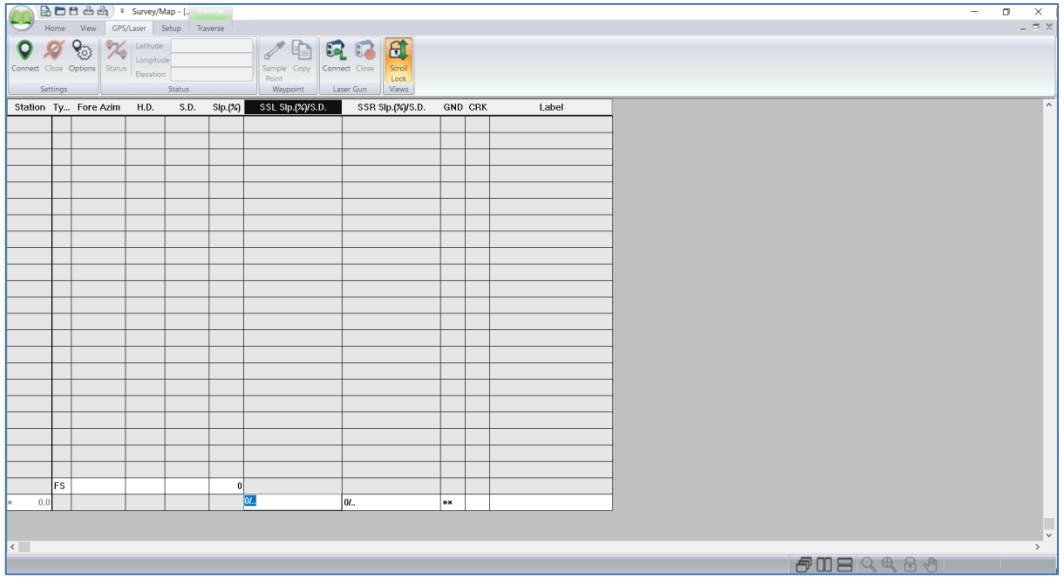
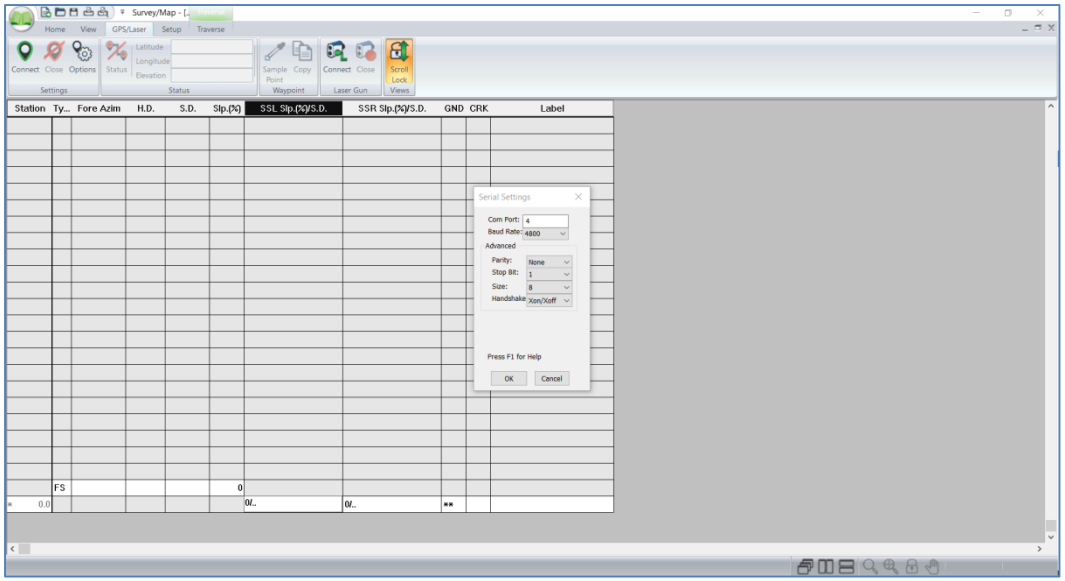
Setting up the Connection

5. Click on the Connect Laser button





6. Select the Com Port number for the laser from the list, ensure the parameters are set as shown and tap OK

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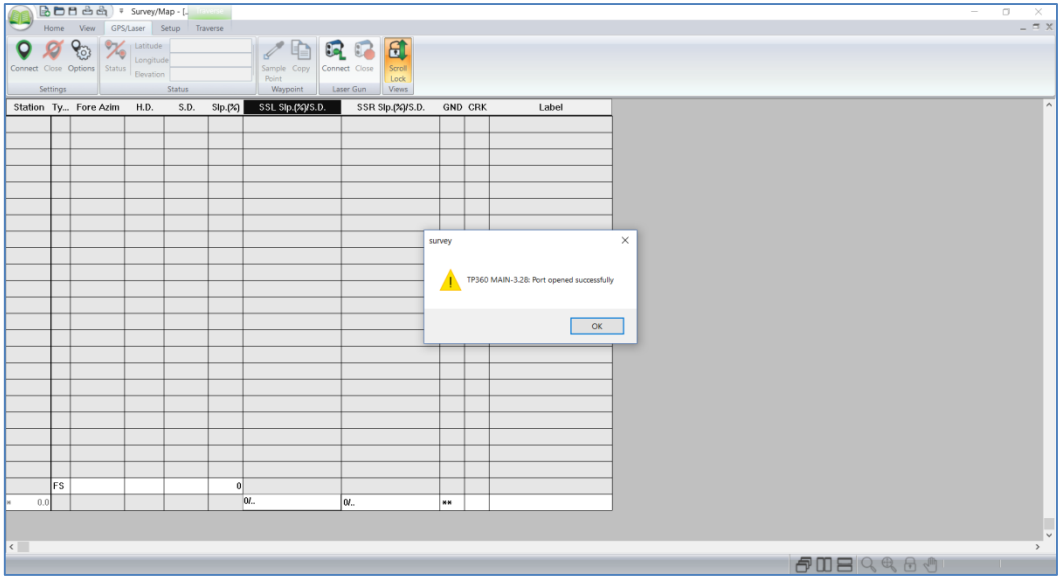
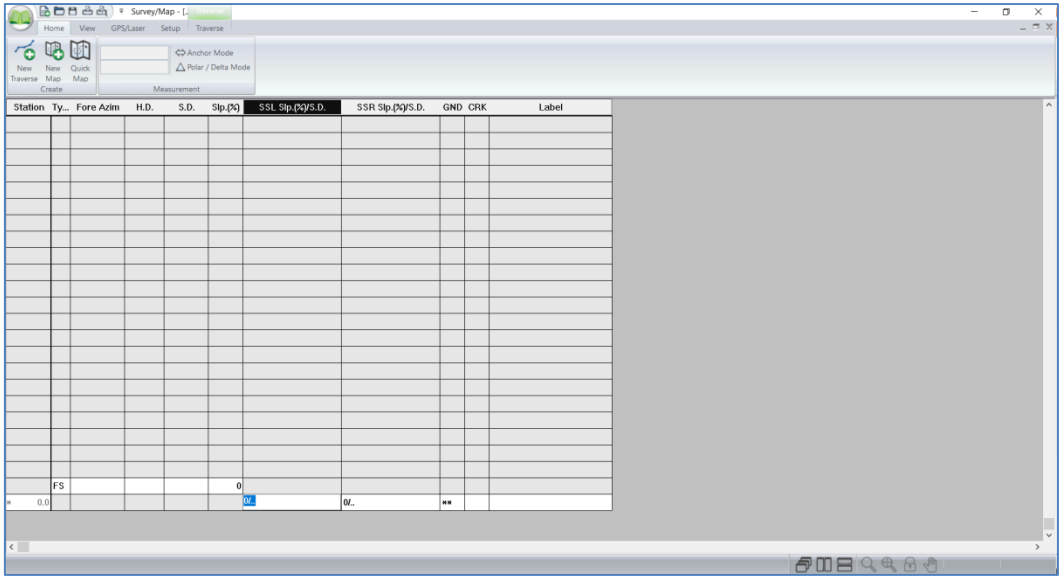
Setting up the Connection

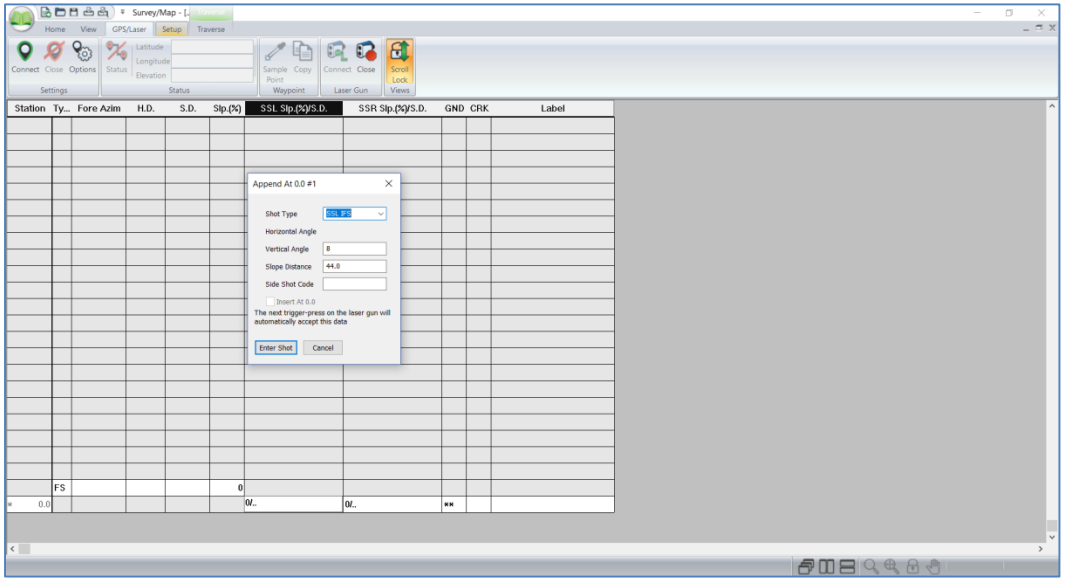
7. A window will appear announcing success in connecting to the laser. Tap OK



Taking Shots with the Laser

8. To measure a Side Shot, place the cursor at the bottom of the SS Column





9. Aim at the Side target and Fire the Laser. A window will appear showing the point number and measurement data. Choose SS for the Shot Type, Input a Code for the point and tap Enter Shot.

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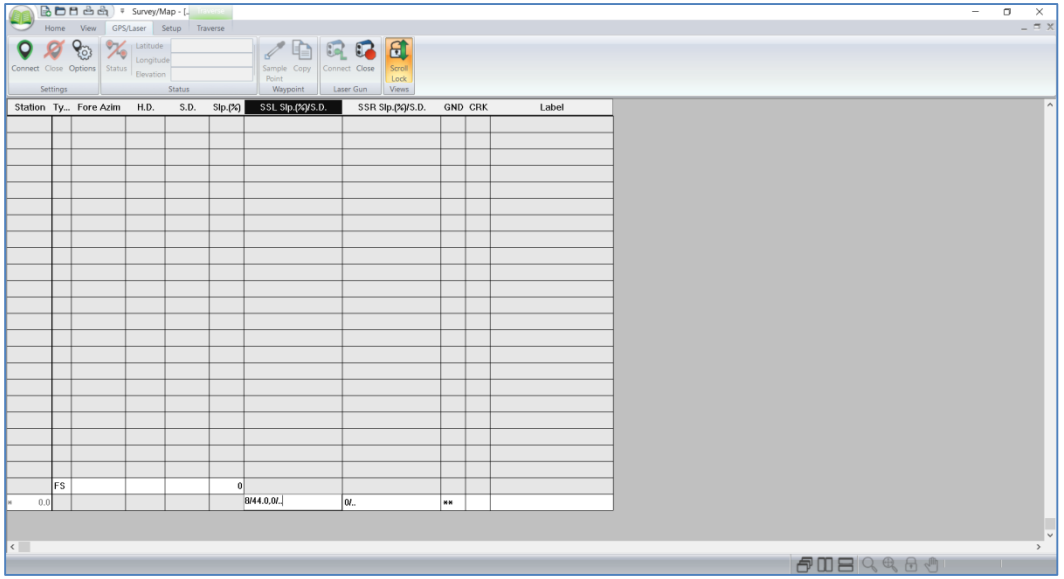
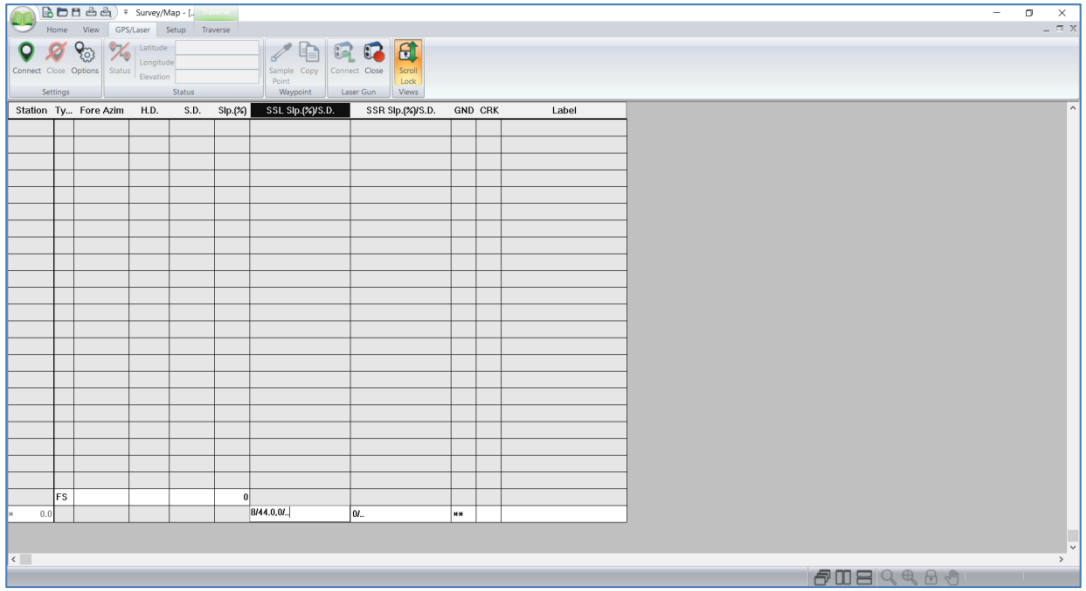
Taking Shots with the Laser

10. The data will appear in the appropriate cell on the Traverse Sheet





11. To take a Fore shot, place the cursor in the Fore shot column

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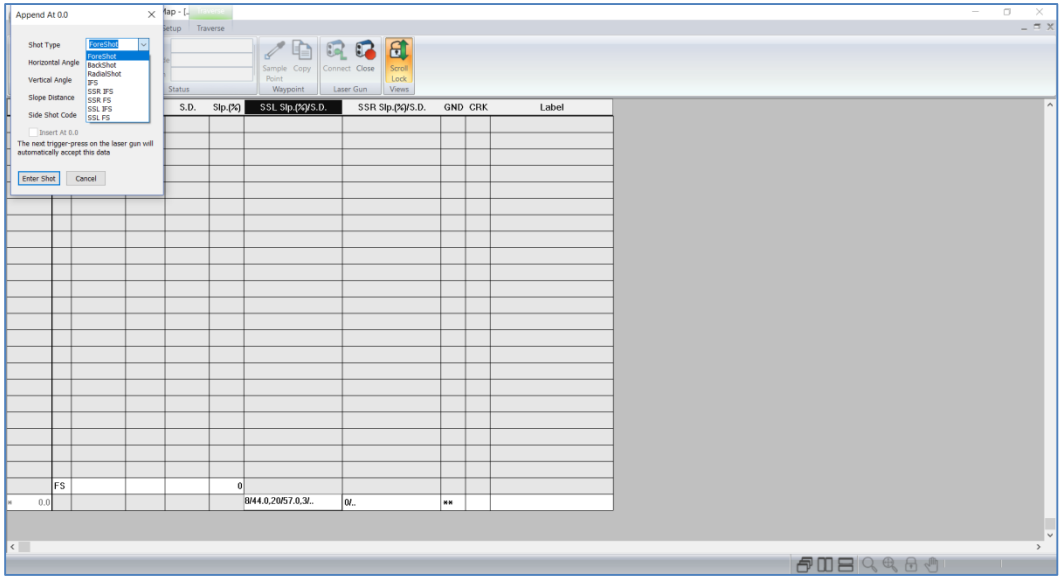
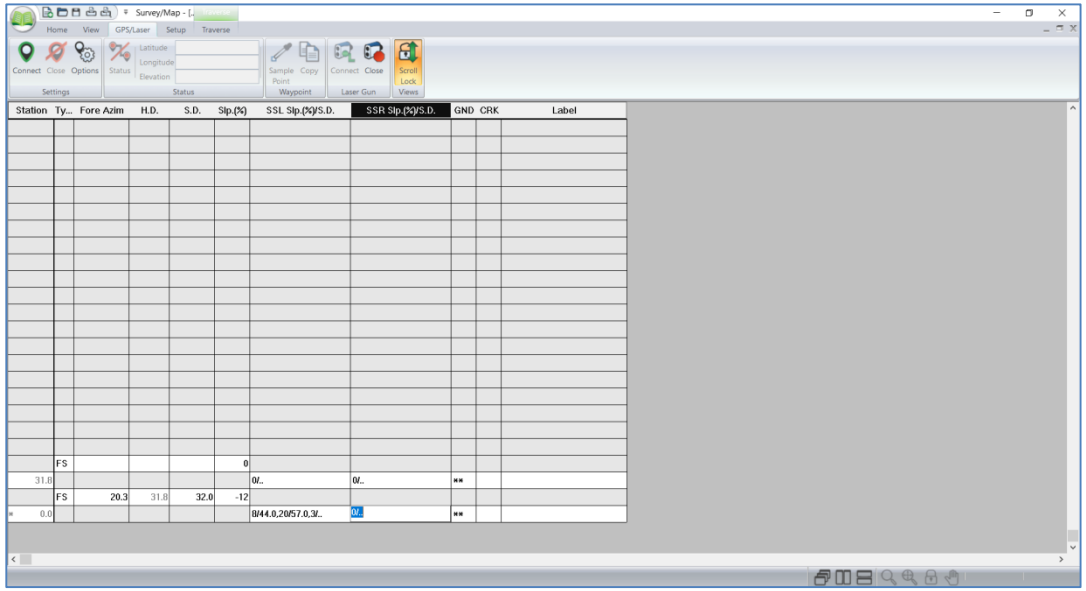
Taking Shots with the Laser

12. Aim at the Fore target and Fire the Laser. A window will appear showing the point number and measurement data. Choose ForeShot for the Shot Type, input a Code for the point and tap Enter Shot.
*Note: if using a TruPulse 200 model, the Azimuth can be measured and input manually





13. The data will appear in the appropriate cell on the Traverse Sheet. Continue in this manner to collect the survey data. Tap Close in the Laser toolbar at the top of the screen to close connection with the laser.

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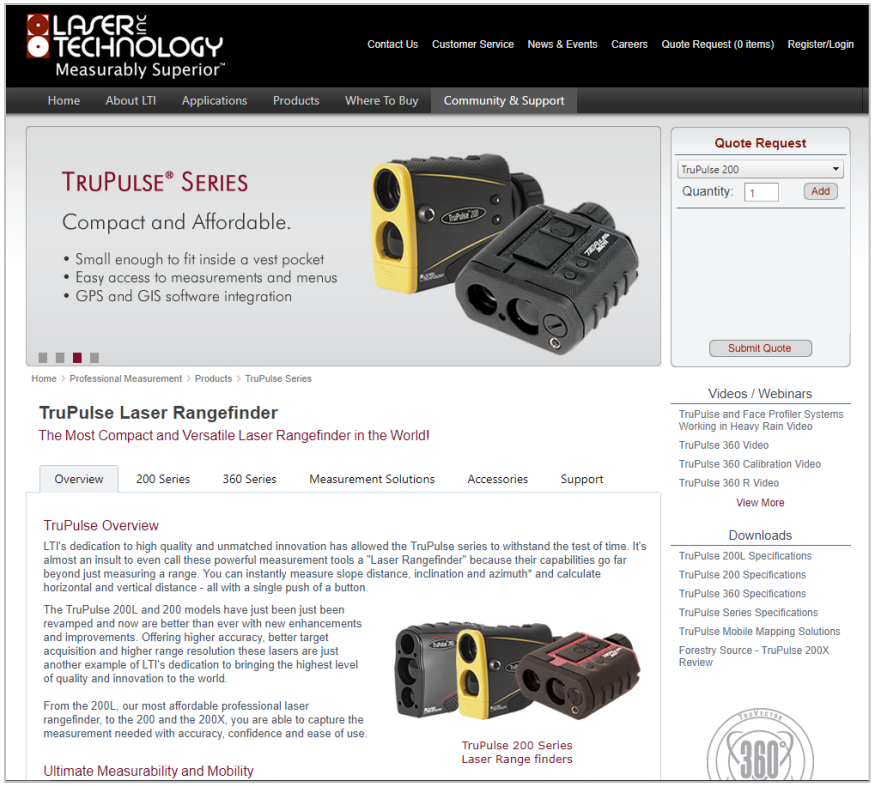
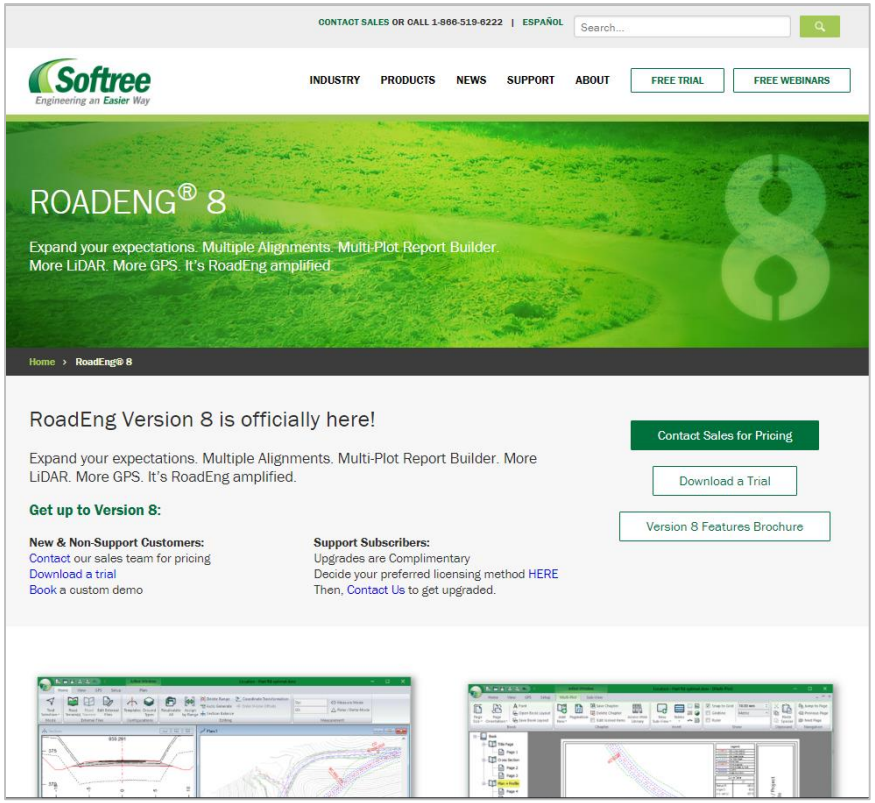
Product Resources

Product Page/User's Guides:

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

https://www.softree.com/roadeng-8





Stay informed! Find out about Laser Technology products, updates, and training resources by keeping track of us on FaceBook (/LaserTechnologyInc), Twitter (@LaserTechPro) and YouTube (/user/LaserTechPro)

Contact Laser Technology, Inc.

Questions regarding the interface to RoadEng or our laser products?

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