



LTI Laser Interface to



TerraFlex™

Quick Reference Guide



Overview

Trimble® TerraFlex™ is an application serving the mobile mapping and GIS industry. In addition to a full interface to LTI's laser products/systems, it supports input from Trimble GPS receivers through the use of intermediate setup apps.



Compatible products

- Trimble R Series: 1,2,8,10
- Trimble Catalyst™
- LTI TruPulse Series

Software used

- TerraFlex™ ver 4.6x

Basic Steps

- Connect the Laser
- Collect an Offset Shot
- Refine the Position



Connect the Laser

This page assumes the TerraFlex™ app has been installed and licensed on an Android device and that a Trimble® GNSS receiver has been connected to it. Also that an LTI TruPulse laser is available with Bluetooth turned ON and 360 models have Declination applied.



1. From the TerraFlex™ Menu bar, choose **Settings** (Figure 1)
2. Tap on the **Laser Rangefinder** box (Figure 2)
3. From the list of **Available Devices**, pick the desired laser to connect to it (Figure 3)
 - use PIN “1111” for TruPulse 200/360/360R and “1234” for TruPulse 200X
4. Confirm the laser selection and choose the **Units** that match the laser (Figure 4)

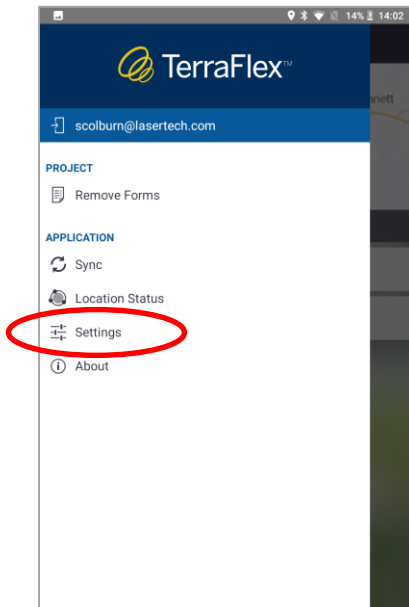


Figure 1

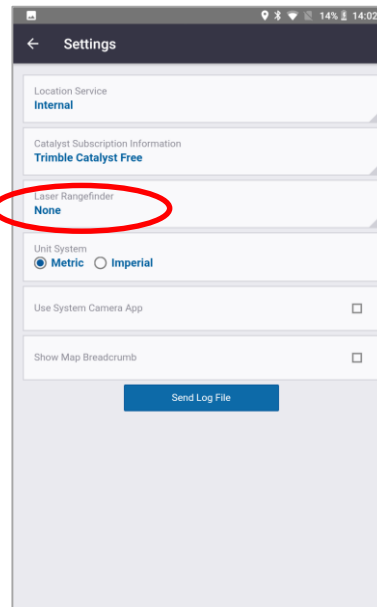


Figure 2

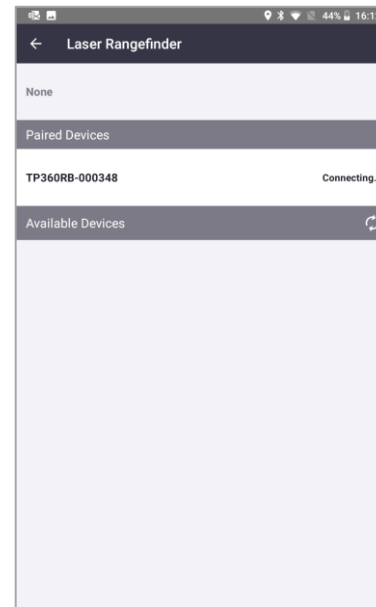


Figure 3

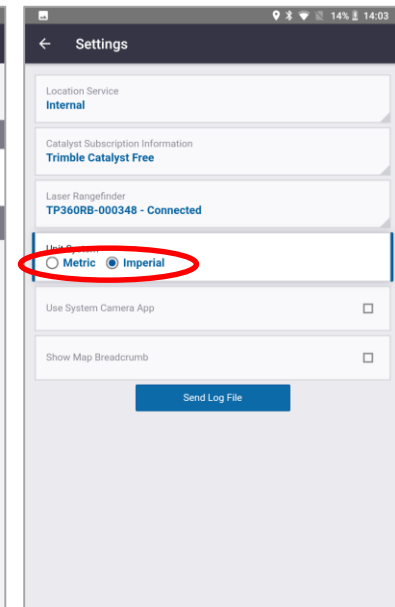


Figure 4

Collect an Offset Shot



This page assumes a TerraFlex™ Project is open.

5. From the main screen, tap on the **Collect +** icon (Figure 5)
6. Tap on the **Point** box at the top (Figure 6)
7. From the map view, tap on the **Log Offset** button along the bottom (Figure 7)
8. Tap the **Log** button to establish the location you are taking the Offset from (Figure 8)

IMPORTANT: You must enter the Magnetic Declination for the work area into the TruPulse 360 laser. (local declination values can be found on the web and refer to the laser's user manual to enter it in)

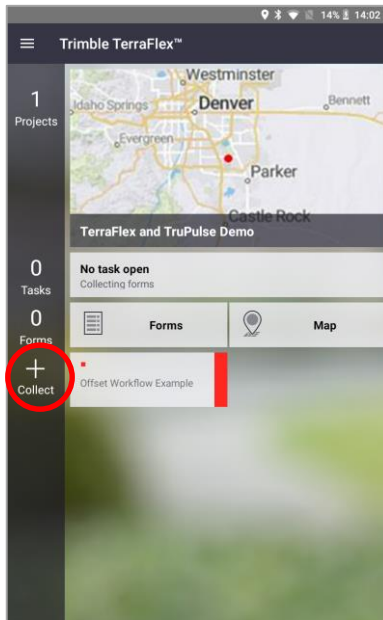


Figure 5

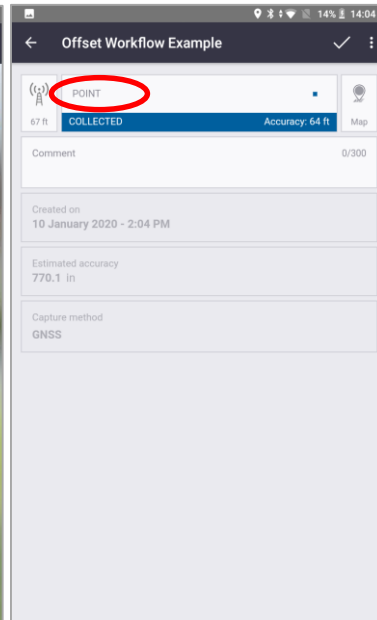


Figure 6

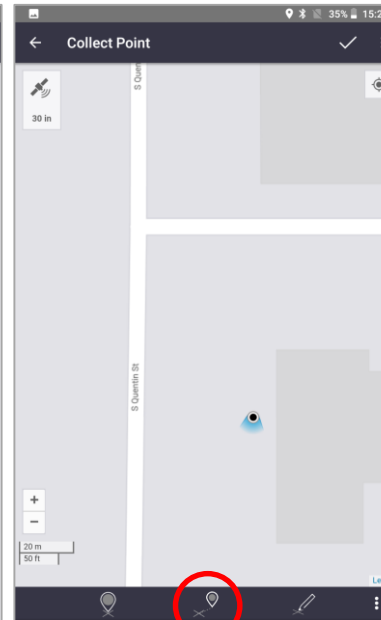


Figure 7

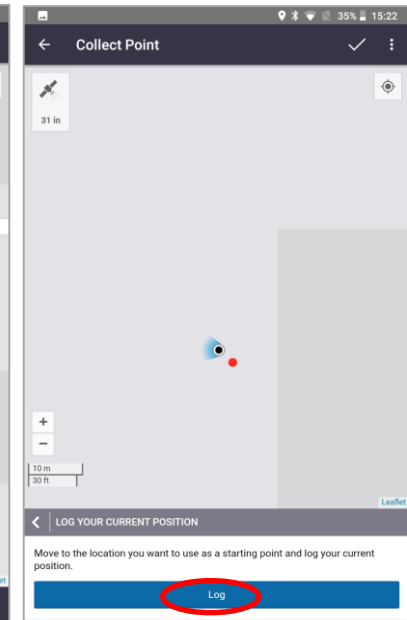


Figure 8

Refine the Position



This page assumes a TerraFlex™ Project is open.

9. Aim at the target and **Fire** the laser (Figure 9)
10. The offset position will plot, tap **Accept** or choose **Refine** for better accuracy (Figure 10)
11. Move to one of the shaded areas, **Log** that position with the GNSS and **Fire** at the target again (Figure 11)
12. The location is automatically refined and the new accuracy stated. Tap **Accept** to store this location for the point (Figure 12)

The entire process is repeated for all subsequent Offset shots

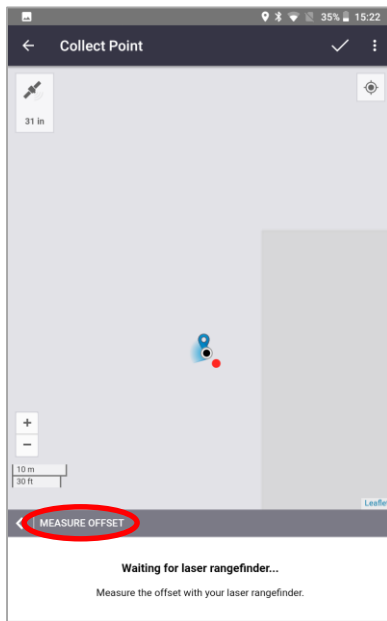


Figure 9

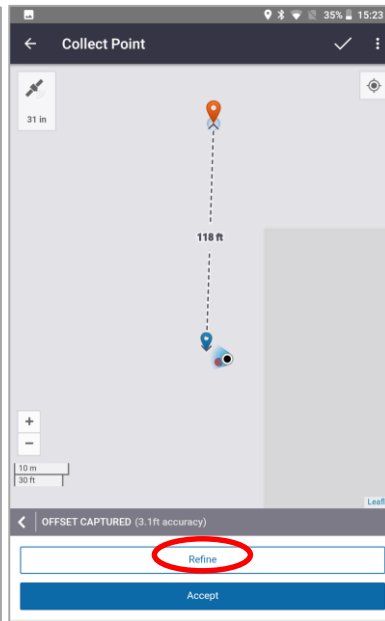


Figure 10

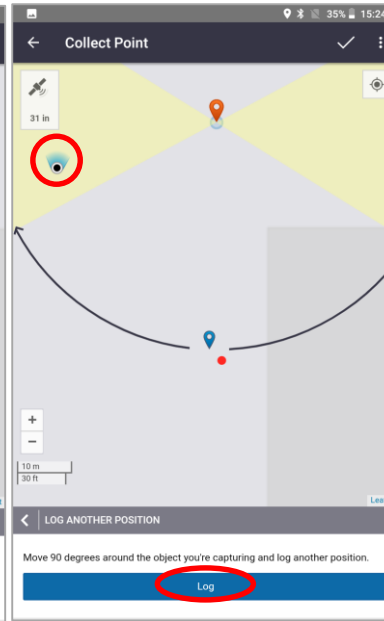


Figure 11

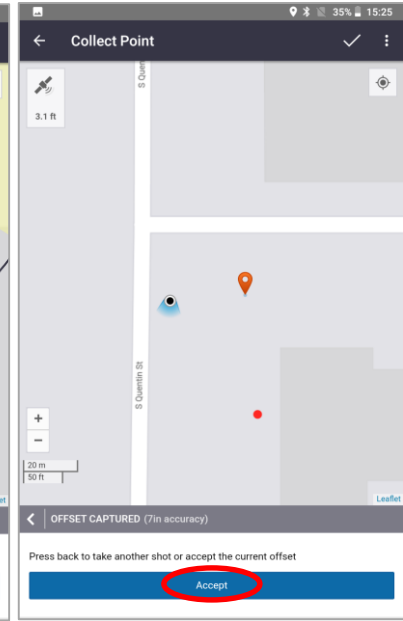
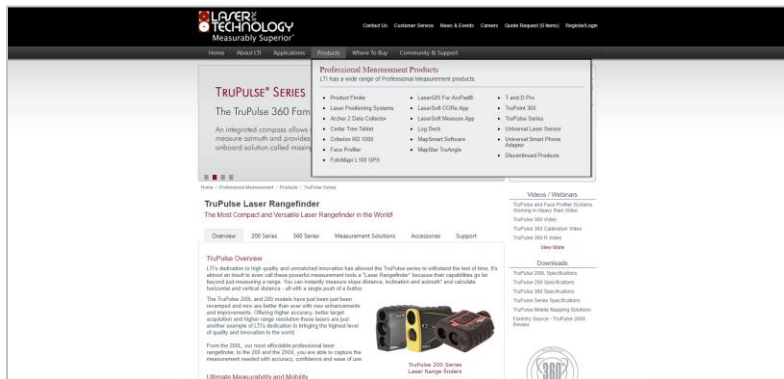


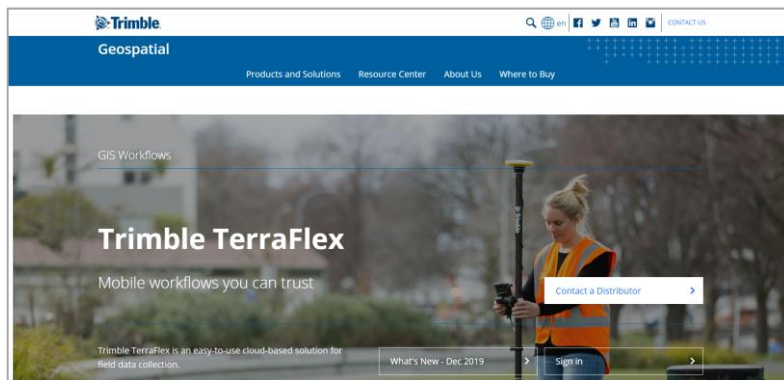
Figure 12

Product Resources

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

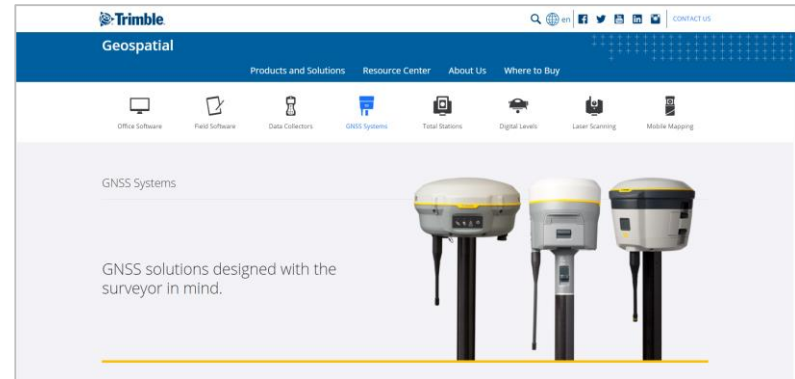


<https://geospatial.trimble.com/terraflex>

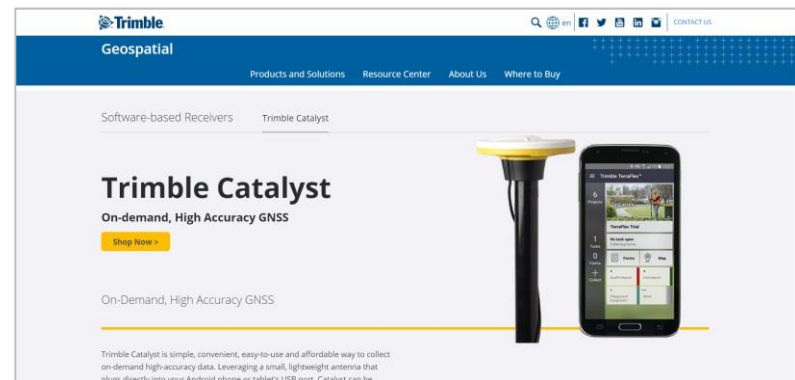


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Contact Laser Technology, Inc.

Questions regarding the interface of our laser products to the Trimble TerraFlex app?

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