

# Northeast Diagramming Services

## TruPulse 200 X & TruAngle Set Up Guide

- 1: Pick the appropriate set up location and the operator.**
- 2: Put the entire system together.**
- 3: Loosen all legs and lift so that the site scope is comfortable. Then lock the legs**

### **LEVELING THE ANGLE ENCODER.**

Use the tribrack if you have one to level the system. Level the bubble on top of the TruAngle. Power on the Truangle and Index by rotating 360 degrees until you see flashing zeros.

Power on Recon/PocketZone

Tap on START

Programs

PZ / PocketZone

Enter File Name and tap on OK

**Tap on File and then Laser Device**

Tap on Laser Device Window and select LTI Angle Encoder, Enter Instrument Settings if mapping in 3D (**Instrument and Target Heights!**). **Instrument at the middle of the Lidar Unit. Be sure to validate the prism pole.**

Power on the TruPulse 200X

1) Be sure to be in the HD mode

Be sure the Filter is on if using a prism

You are now ready to take the first shot (**Zero reference line**) and plot your instrument point and control point 2. The first shot is best use to establish the “0” point.( Top of page). You will have to fire the laser **2 times** on the first shot to zero the Angle Encoder.

Target quality has an effect on the precision of measurements.

- 1) High quality target: “c” is illuminated in the display along with the measurement. Range accuracy to typical targets:  $\pm 1.5$  inches (4 cm).
- 2) Low quality target: “c” is not illuminated in the display along with the measurement. Range accuracy to typical distant/weak targets could be  $\pm 1$  foot (30 cm).

Every point plotted after this, you will only fire the laser 1 time. Next shoot a distance point that has been measured with a tape and **marked**.

**Shoot reference points, then evidence, then scene.**

**Make sure the last point shot is the distance shot.** Then once done save a PZD, TXT, RAW.

In the event of a battery failure, aim back to the zero or “back-site”