

# Quick Start Guide:

# **ChrisNik Laser Transfer Pro Floor-To-Ceiling Layout System**

Part# LTP526

For use with *Trimble Field Link* layout software,  
*Trimble Robotic Total Station* kits and accessories

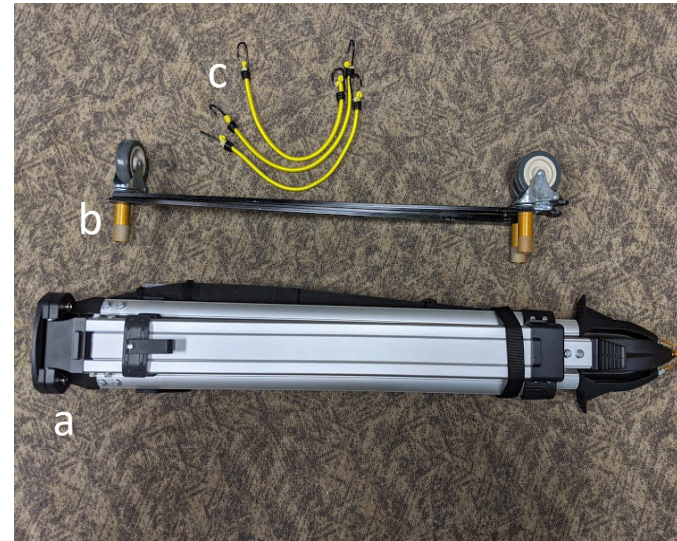
Prepared by: Building Point Ohio Valley



# Packout

Included in the kit is the following:

- a) Aluminum tripod
- b) Wheeled tripod base
- c) Fastening cords (x3)
- d) Tripod carrying bag (not shown)
- e) Laser carrying case
- f) Tribrach
- g) 360 Slider bracket w/ handle
- h) 5/8" brass nut
- i) Spectra Precision LP51G laser w/ custom housing & mounted 360 prism



# Assembly: Step 1

- a) Assemble wheeled tripod base w/ all 3 casters & open pegs attached
- b) Place tripod tips into peg holes
  - i. Tripod doesn't need extended
- c) Secure the tripod in the base w/ bungee cords wrapped behind wheels & over tripod foot pedals



## Assembly: Step 2

- Place tribrach & slider bracket assembly onto tripod baseplate
- Secure at bottom w/ 5/8" bolt (attached to tripod)
- Tribrach can be leveled using adjustments to tripod legs or tribrach leveling posts



## Assembly: Step 3

- a) Attach LP51 laser mount by sliding onto the front of the slider bracket
- b) LP51 laser mount attaches from the bottom of slider & 5/8" brass nut secures the mount onto slider bracket bolt



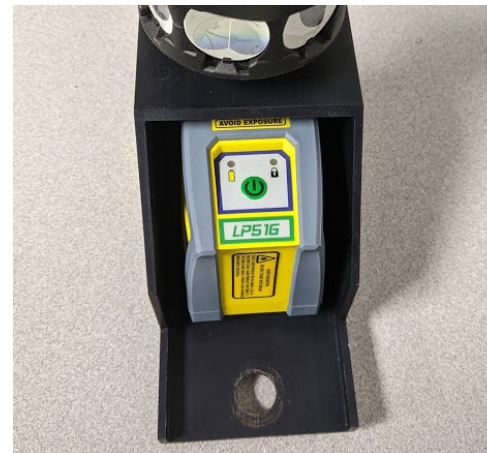
## Assembly: Step 4

- a) Trimble Field Link tablet can also be mounted to the assembled kit
- b) Using the standard claw mount included w/ tablet, attach to outside leg of tripod
  - i. Do not overtighten, as aluminum tripod is not as sturdy in this application as clamping to range pole
- c) Mount tablet to claw bracket



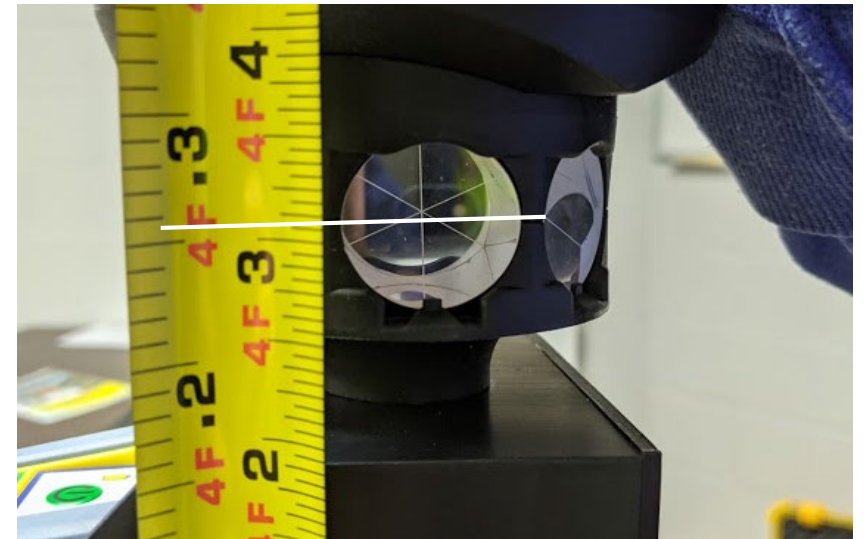
# Configuration & Use

- a) LP51G laser is turned via green button on back of the device
- b) Batteries can be accessed & replaced via the bottom of mount
  - i. LP51G laser can be removed from mount via screw on the bottom, however this is discouraged to maintain a consistent fit
- c) When in use for layout, lock on the front of the device should be disengaged
  - a) This allows the device to self-level
  - b) **When not in use or being transported, engage the lock to prevent damage to self-leveling components**



# Configuration & Use

- a) In Trimble Field Link Software, select standard 360 prism as type
- b) While Laser Transfer Pro is not intended for elevation measurements, offset height can be input to Field Link
  - i. Measure from center of prism glass to floor directly below
  - ii. Be advised that layout software is accounting for a static offset height & assuming prism is on a rod
  - iii. The laser emitted from LP51G is not associated w/ the robotic total station & is simply a marker of what is directly above & below center of prism





# Configuration & Use

- a) While it's advised that you frequently check the level bubble on the tribrach for plumbness, the laser mount does not need to be perfectly plumb to be accurate, due to its self-leveling capability
  - i. However, the self-leveling feature is only functional within about 5 degrees from plumb
  - ii. If the laser is flashing while “unlocked” it is too far out of plumb to self-level**
  - iii. The vertical (ceiling) laser may also be blocked or deflected within prism opening if device is too far out of plumb
- b) When navigating to layout a point within Field Link, move entire cart according to directions in software until within approximately 6-8 inches
- c) For final alignment, slider bracket can be moved forward & back & swung side-to-side in an arc to dial into the layout point
- d) Once software specifies “stake point,” the laser dot will be indicating the staking location both on the floor below & ceiling above
- e) If working on a steeply angled floor, wheel casters may also be locked

# Additional Configurations

- a) The Laser Transfer Pro LP51G laser mount can also be used w/ any standard survey/layout rod w/ 5/8" male thread
  - i. Make sure to manually measure height of prism glass center to bottom of pole for accurate rod height offset in Field Link
- b) Standard prism pole & bipod legs
- c) Mini stakeout rod & mini bipod legs
- d) Contact your local Building Point Dealer for pricing & availability of these accessories

