# TRUPULSE® L2
# LASER RANGEFINDER

## Customer
## Product Introduction


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25 Years Anniversary Celebration
Laserman TECHNOLOGIES
measuring solutions
Sales and Service Since 1997

# About Laser Tech

**ISO Certified:** Quality through Innovation and Dedication

Over 35 Years in Business


Superior Service/Support

Rich Patent Portfolio

Extensive Dealer Network

- Laser Tech's flagship products are engineered with pulse-laser technology (a.k.a. reflectorless measurement technology) resulting in the ability to measure distances. We also specialize in tilt and compass sensors, allowing you to measure heights and azimuth bearings.
- In addition to delivering accurate, efficient measurement hardware, LTI recognized a need to provide overall task-specific solutions through data collection App development. LaserSoft® Apps developed for specific vertical markets can record laser measurement for documentation.

# New “TruPulse® L2” Model

## TRUPULSE® SERIES

Compact, Powerful and Versatile Laser Rangefinders

Laser Tech released the TruPulse product line 17 years ago, the most successful Professional Measurement product for Laser Tech. Our next generation TruPulse models take laser measurement to another level with performance, durability, and user experience

## CONTENTS

# TruPulse L2

- **Introducing our newest TruPulse model:**
  - The TruPulse L2 versatile handheld laser measures much more than just range. Measure slope distance and inclination angle and calculate horizontal distance, vertical distance, height and 2D vertical missing line values.
  - The TruPulse L2 is more accurate and provides calculations not found on recreational rangefinders giving you the ability to produce professional results.
  - Compact, lightweight and designed for the Professional field users.

# TruPulse L2 Key Features

Key Features:

- Faster acquisition and greater accuracy means confidence, efficiency and safety
- Physical, Visual and Audible feedback on target acquired
- Advanced Targeting Modes (Closest, Farthest, Continuous and Filter)
- Easy to hold, lightweight, Rubberized grips, Button tactile feedback
- Quick Access Menu and Icon driven display
- Intelligent brightness display: 100% automatic no need to adjust brightness manually.
- Reticle Options
- 5 Intuitive User Interface and workflows


**TruPulse® L2**

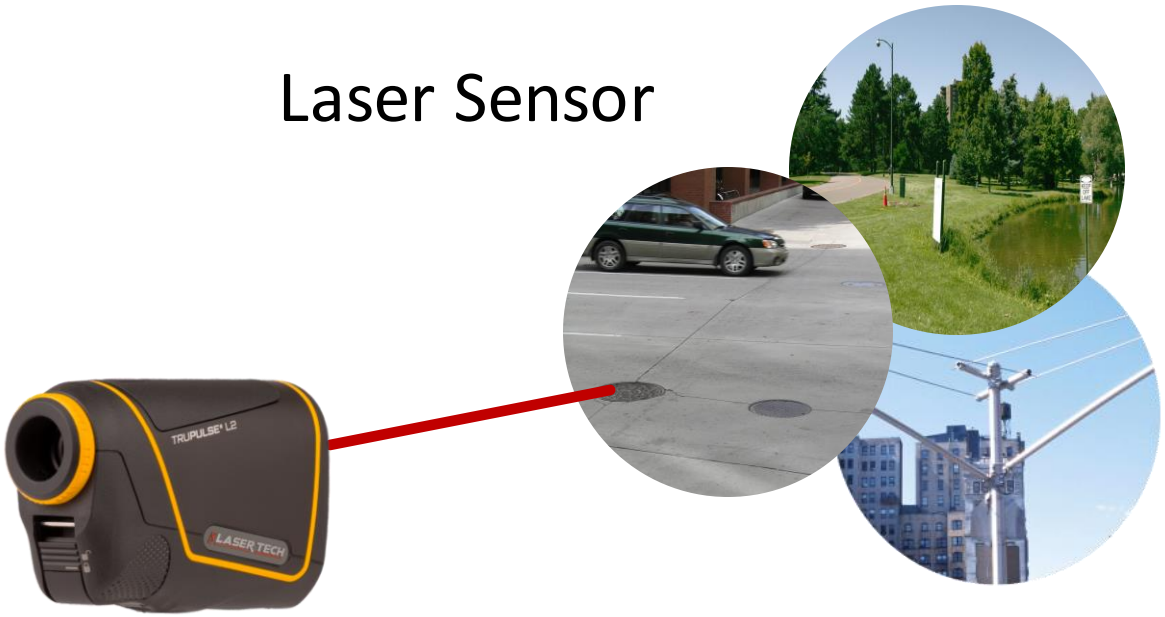
# TRUPULSE L2 SPECIFICATIONS

- Distance Accuracy to Typical Targets: Range +/- 0.5m (1.6 ft)
- Distance Accuracy to Weak Targets: ± 1 m (3 ft)
- Max Range to Reflective Targets: 2200 m (7200 ft)
- Max Range to Non-Reflective Targets: 1200 m (3900 ft)
- Min Range: 5 m (16 ft)
- Inclination Accuracy: +/- 0.5 Degrees Relative
- Range Display Resolution: 0.1 m, 0.5 ft
- Scope Magnification*:* 5X magnification
- Display Color: Adaptive (Black/Red), Auto or Manual
- Battery: One CR2; 10hrs Typical use
- Environmental IP Rating: IP67: Water & Dust Proof

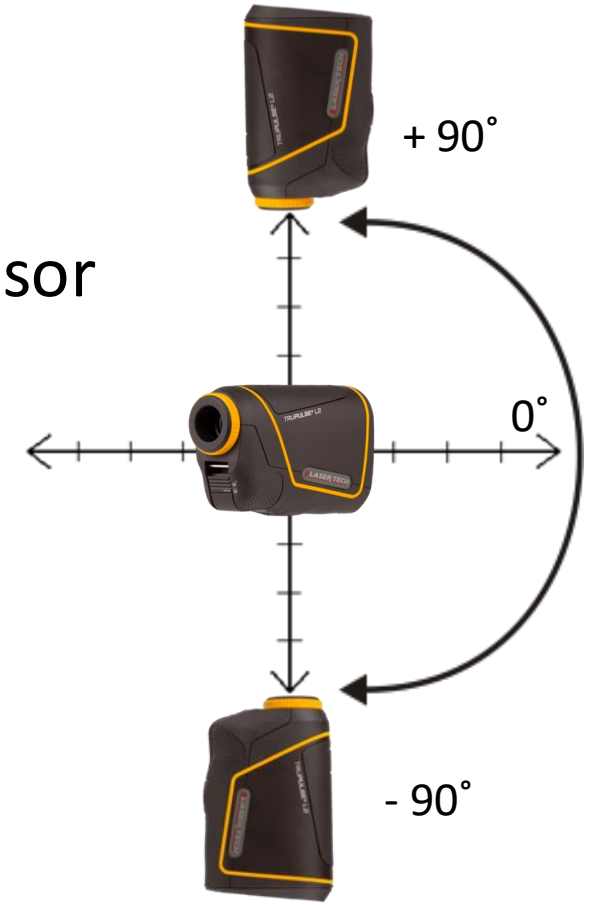
***Specifications are subject to change from the evaluation and continued testing.***

# Laser 101

Laser Sensor




Tilt Sensor



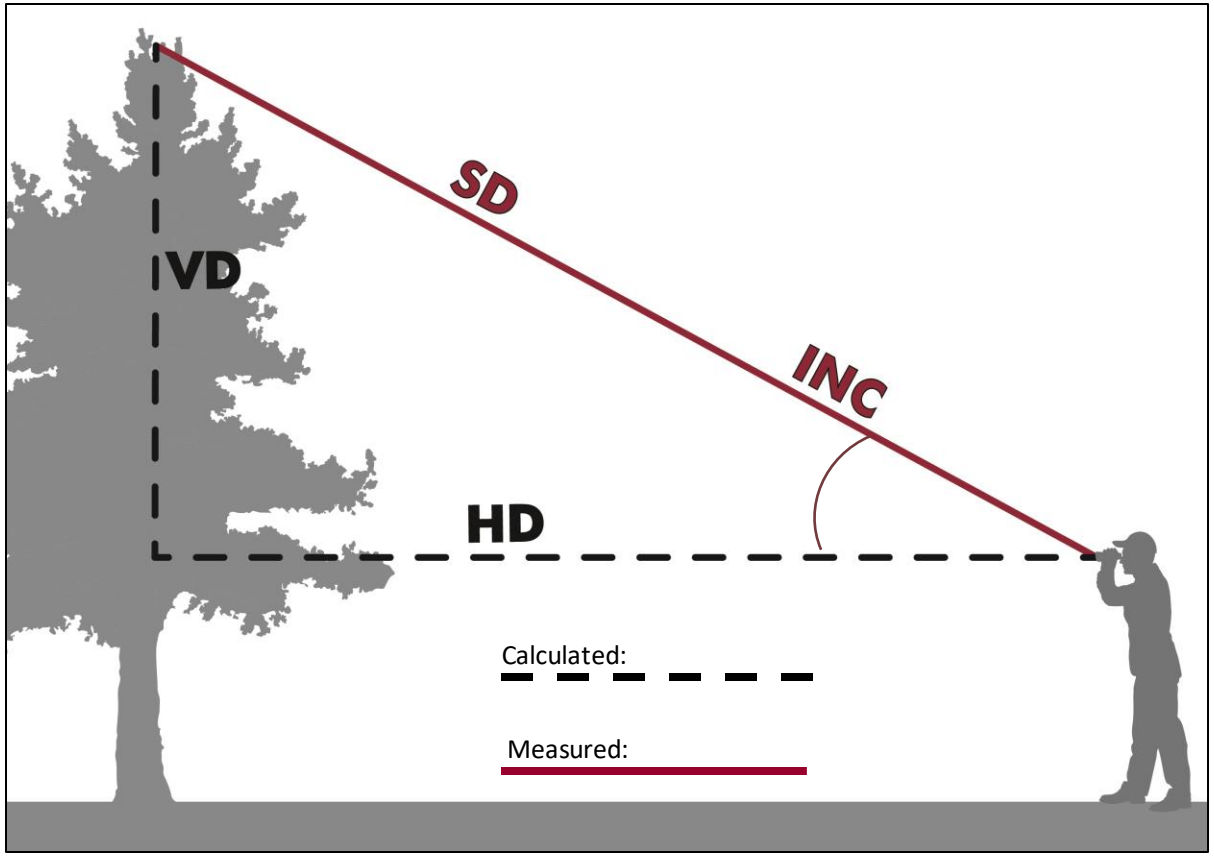
# Distance Measurement

**Sensors Measure:**

- **Laser → SD (Slope Distance)**
- **Tilt → INC (Degree of Inclination)**

**Auto Calculates:**

- **VD = Vertical Distance**
- **HD = Horizontal Distance**

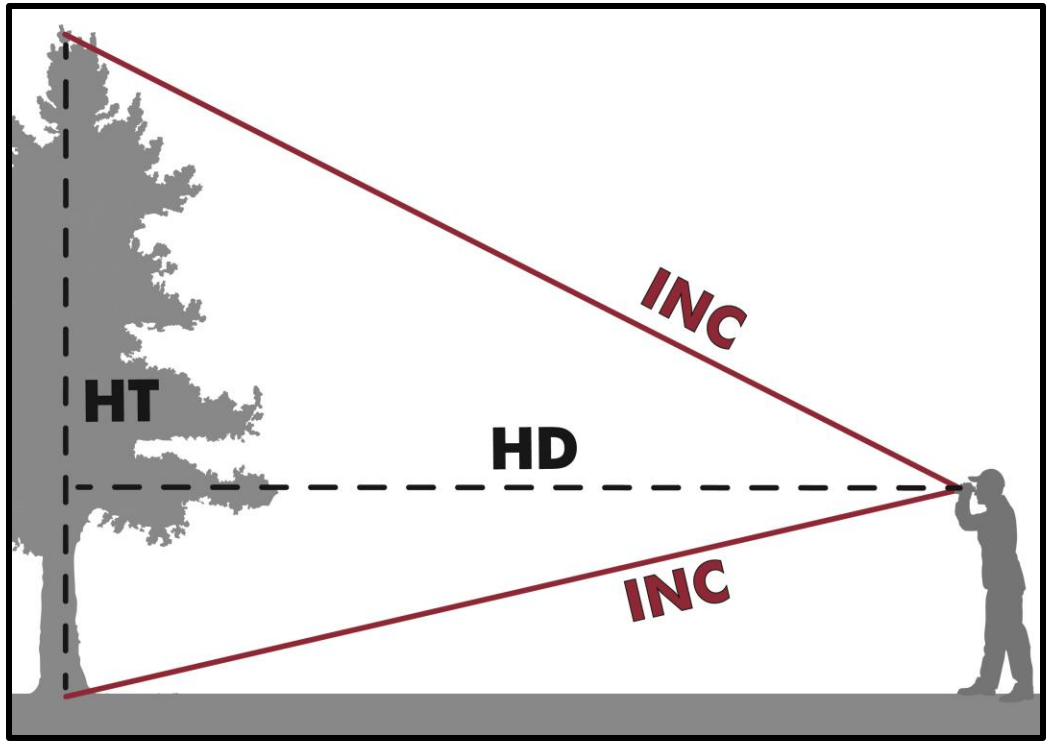



# 3-Pt Height

Height Measurements involve a simple routine that prompts you to take 3 shots to the target

1. Horizontal Distance,
2. Inclination Angle_1
3. Inclination Angle_2.

The TruPulse L2 uses these results to calculate the height of the target.




**Tips:**

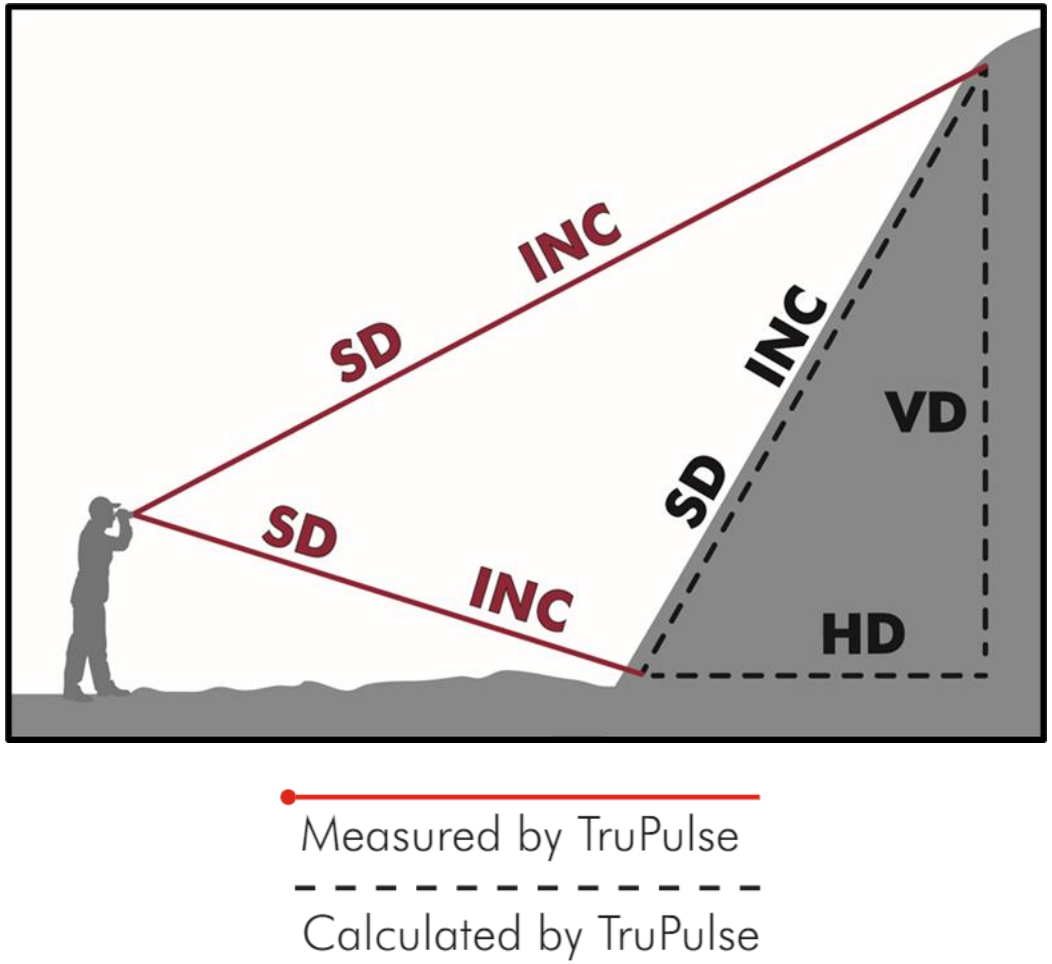
- This routine is ideal for flat, vertical objects that do not lean. To shoot through brush, use the filter mode, foliage filter and a reflector.
- The laser sensor does not measure when taking the two inclination angle measurements.
- The sequence of the two inclination angles shots does not matter: Bottom to Top OR Top to Bottom.

# 2D Vertical Missing Line

The 2D Missing Line Routine calculates distances and angles to describe the relationship between two points in two-dimensional space (connecting vector).

1. Shot 1
2. Shot 2

The TruPulse L2 uses these results to calculate values between the two points: slope distance, inclination, horizontal distance, and vertical distance from Shot 1 to Shot 2.



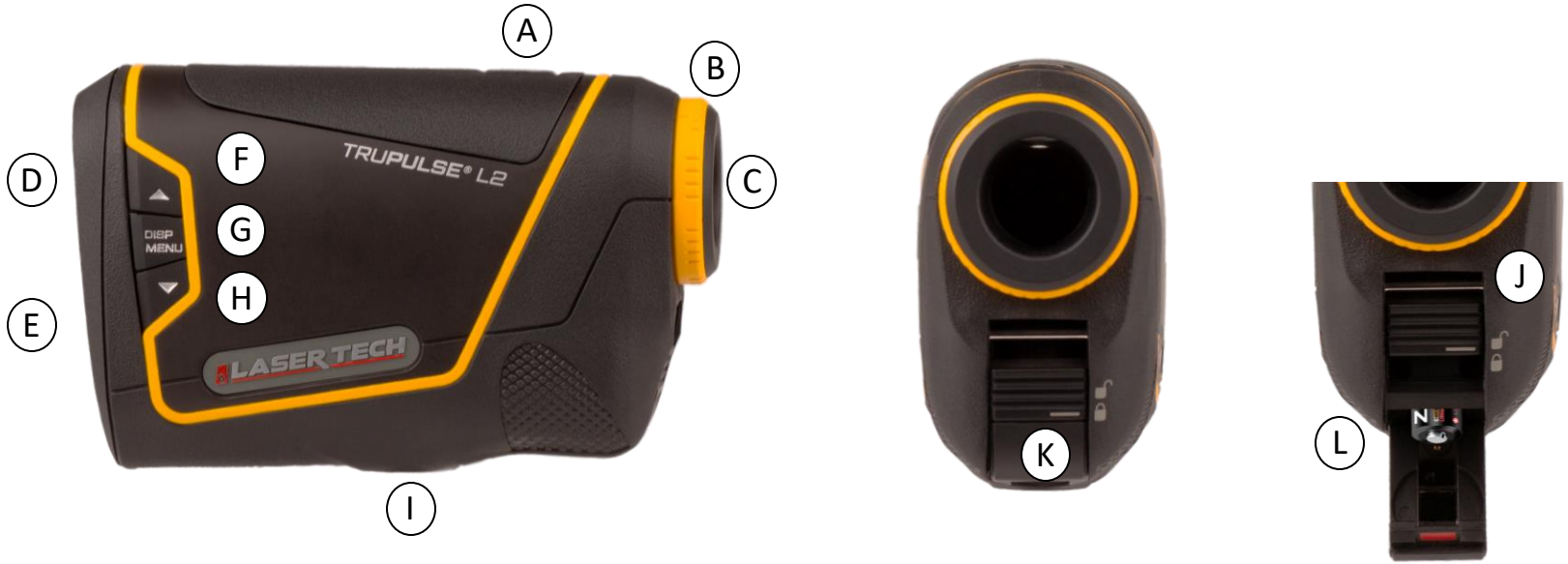

**Tips:**

- Position yourself where shot 1 and 2 are made looking in the same direction with a clear line of site to both targets.
- The VD solution will always be accurate no matter which direction shot 1 and 2 are taken.
- If Shot 1 is longer and higher than Shot 2, the VD value will be negative.

# Design



# Button Layout



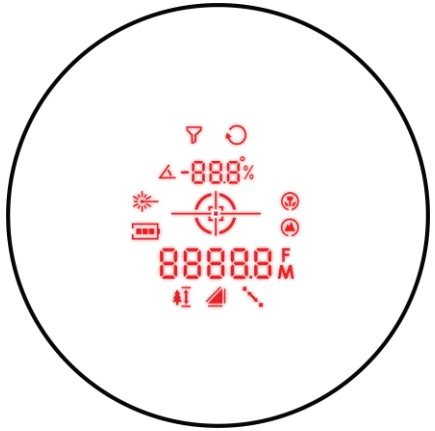

| | | |
|---|---|---|
| A. Fire Button | E. Laser Transmit Lens | I. Tripod Mount |
| B. Diopter Focus | F. Up Arrow Button | J. Attachment point |
| C. Eyepiece Lens | G. Display / Menu Button | K. Battery Door |
| D. Laser Receive lens | H. Down Arrow Button | L. Battery CR2 |

# Display

The TruPulse L2 is equipped dual color display and can show information in Red or black.

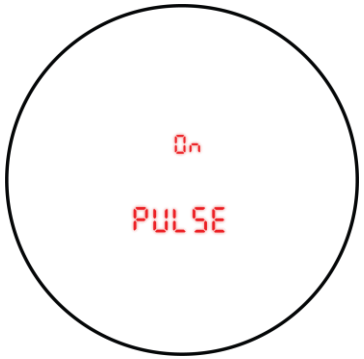
- PDLC Display: Polymer Dispersed Liquid Crystals
- With a built-in light sensor that reads ambient light. The internal software adjusts the red brightness intensity based on the measured light reading.
- Auto Black/Red display: automatically adjusts brightness levels to assist viewing in all lighting scenarios
- Manually toggle between Blac/Red display at anytime. 

- This feature ensures visible readouts in almost any type of environmental conditions.
- The brightness display is 100% automatic no need to adjust brightness manually.

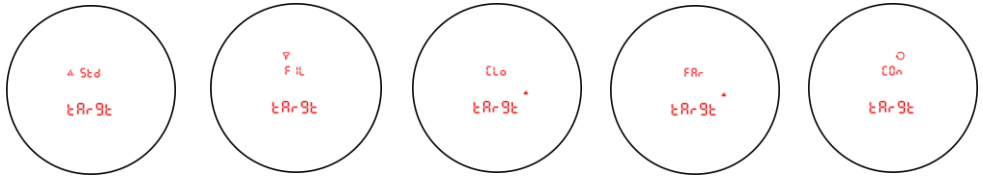


# TruTargeting

- Feedback Acquired target
  - Physical, Visual and Audible feedback on target acquired
    - Physical: When a target is acquired, the unit will “Pulse” (Vibrate).
    - Audible: The pulse motor makes a “buzz” noise at the same time.
    - Visual: The measurement results in the display will flash




- Targeting Modes
  - The TruPulse L2 has five Target Modes which allow you to select or eliminate targets and to take the most accurate measurements possible in various field conditions.
  - Standard; Closest, Farthest, Filter & Continuous



# “What is in the Box”







# Accessories

- Mounting Bracket #7025077
  - Mounting Options

- Foliage Filter #7204833


- Carrying Case #3124709

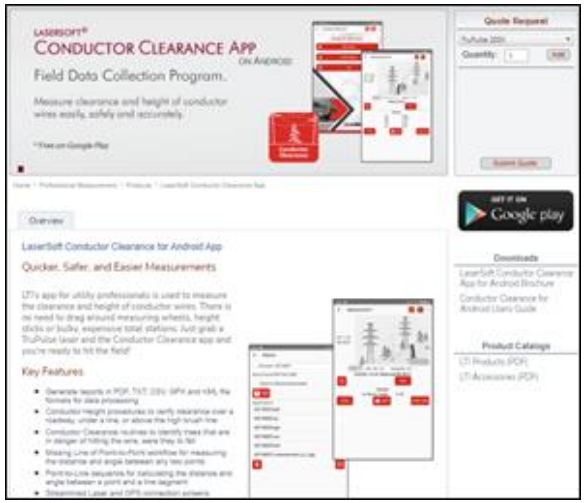

# TruPulse L2 Markets

<u>Vertical Markets:</u>

- Construction: Crane Positioning
- Forestry: Tree Heights
- Utilities: Vegetation Management
- Telecom: Wireless, Clearances
- Drone: Pre-Flight Planning

# Product Resources

**Stay Informed!** Find out about Laser Tech products, updates, and training resources by keeping track of us on FaceBook, Twitter, YouTube, and at lasertech.com.





# Documentation

- Quick Reference Guide #0145007
  - Insert in packaging with QR code, directly to webpage
  - Available on TruPulse L2 Webpage “Downloads” tab


- User’s Manual
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  - Available on TruPulse L2 Webpage “Downloads” tab


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