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TruPulse 200/200B Laser Rangefinder

Code: 431400 - 431450

Operating Instructions

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TruPulse 200/200B Laser Rangefinder

Features of the TruPulse Laser Rangefinder:

- Crystal clear optics and the heads up display lets you keep your eye on the target.
- “Thru-the-lens” viewing eliminates parallax issues so you know the laser energy is travelling directly along your line of sight.
- The laser sensor and integrated tilt sensor measure slope distance, horizontal distance, vertical distance, inclination, or instantly calculate the height of any object.
- The Target Mode allows you to select or eliminate targets; which helps you take the most accurate measurement possible in a variety of field conditions.
- Adjustable eyepiece provides comfortable viewing for eye or sunglass wearers.
- Measurement data is available for download to remote PC or Pocket PC. Data communication via wired RS232 serial (standard) or go wireless with the Bluetooth option (TruPulse 200B)

Tilt Sensor

The integrated tilt sensor measures vertical angles that the TruPulse uses to calculate height and elevation and to determine slop-reduced horizontal distances. The instrument held level is at 0º, and is rotated up through +90º, and down through -90º.

Display Indicators

Main Display	888.8.8	Displays messages and measurement results
Measurement Units	YARDS METERS FEET	Distance measurement units. Selection available in the Systems Setup Modes
	DEGREES	Inclination measurement units
Crosshair		Serves as the aiming point reference, both horizontally and vertically
Status Indicators	BATT	*Flashing:* battery voltage is low *Steady:* battery voltage is too low for system operation *Not Visible:* battery voltage is within acceptable range
	LASER	*Visible:* laser is firing *Not Visible:* laser is not active
	MULTI	Multiple targets have been logged in the Closest or Farthest target mode
Target Modes	CONT	The unit continuously acquires targets and displays measurements while FIRE is held down. The distance to the most recently acquired target is displayed.
	CLOSEST	The unit logs multiple targets while FIRE is held down. Of the targets acquired, the distance to the closest target is displayed.
	FARTHEST	The unit logs multiple targets while FIRE is held down. Of the targets acquired, the distance to the farthest target is displayed.
	Filter (‘F’ appears as the left most character of the Main Display to indicate Filter Mode is active)	Similar to Standard, single shot mode, but the laser’s sensitivity is reduced to only detect pulses returned from a reflector.
	Standard (No display indicator)	Standard, single shot strongest target mode.
Measurement modes	SD - Slope Distance	Straight line distance between the TruPulse and the target
	VD - Vertical Distance	The distance between the target and the perpendicular to the path of the horizontal distance.
	HD - Horizontal Distance	The level distance between the TruPulse and the plane of the target.
	INC - Inclination	The angle of inclination between the TruPulse at level and the target
	AZ HT - Height	Not available Three-step height routine. The final calculation represents the vertical distance between the points on the target represented by ANG1 and ANG2

Display Indicator Test

To verify that all display indicators are working properly:
1. Start with the TruPulse powered OFF, press-and-hold FIRE
2. Compare the in-scope display to verify that all indicators are working properly.
3. Release FIRE to start normal operation.

Eyepiece

The adjustable eyepiece is designed for comfort and to block extraneous light. To extend the eyepiece, turn the eyepiece counter-clockwise while pulling up. To return the eyepiece to its original position, turn the eyepiece clockwise and push down. To match your personal preference, the eyepiece may be located in any position from fully up to fully down. If wearing eyeglasses, you will find that the fully down position brings the eyepiece lens closer to your eye and gives you a full field of view.

Serial Data Interface

The TruPulse includes a hard-wired serial (RS-232) communication port. Wireless Bluetooth communication is available as an option on the TruPulse 200B. In either case, the measurement data downloaded from the TruPulse is in ASCII Hex format, and duplicates LTI’s Criterion 400 (CR400) communication protocol and download messages.

Specifications

Dimensions:	12 x 5 x 9 cm
Weight:	220g
Data Communication:	Serial, via wired RS232 (standard) or wireless Bluetooth (TruPulse 200B)
Power:	
Battery Type:	2 AA
Battery Duration:	Approx. 7,500 (6,000 Bluetooth measurements)
Eye Safety:	FDA Class 1 (CFR 21)
Environmental:	Impact, water and dust resistant. NEMA 3, IP54
Temperature:	-4ºF to +140ºF -20ºC to +60ºC
Optics:	7x magnification Field-Of-View: 330ft @ 1000 yards)
Display:	In-scope LCD
Units:	Feet, Yards, Meters and Degrees
Monopod/tripod Mount:	¼” - 20 female thread
Measurement Range:	
Distance:	0 to 3,280ft (1,000m) typical, 6,540ft (2,000m) max to reflective target
Inclination:	±90º
Accuracy:	
Distance:	±1ft to high quality targets
Distance:	±1yd to low quality targets
Inclination:	±0.25º
Measurement Modes:	Horizontal Distance, Vertical Distance, Slope Distance and Inclination, and 3-point flexible height routine with auto sequencing.
Target Modes:	Standard, Closest, Farthest, Continuous, and Filter (requires reflector and foliage filter)

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