Two-Mode Laser Versatility in One Instrument!

Cope with both Parallel Beam and Focused Beam Applications with the LDT50 Laser Digital Theodolite.

PARALLEL BEAM for directional control during excavation.

FOCUSED BEAM for precise aligning and positioning.
By employing a laser diode instead of an He-Ne laser tube, the telescope has been made compact and fully transiting. The laser diode also assures dependable long-term use.

Breakthrough technology has achieved a laser beam spot extremely close to a perfect circle. The spot center is easily determined for quick and accurate results.

A cross-shaped beam can be emitted using the LCA2 optional laser adapter.

Two-mode Laser for Two-way Usage

Long-life Laser Diode

- By employing a laser diode instead of an He-Ne laser tube, the telescope has been made compact and fully transiting.
- The laser diode also assures dependable long-term use.

Sharp Beam - Round Spot

- The laser output power can be set to either 1 mW or 25 mW as required.
- The instrument employs a safe Class 3A laser so there is no need for special safety precautions during use.

Laser Range Over 400 meters (1,312 feet)

- When working outdoors in cloudy daytime conditions, the laser beam reaches over 400 meters (1,312 feet).
- The LDT50's laser reaches even further in the dark - when working in tunnels or other underground sites for example.
The LDT50 integrates breakthrough laser technology with a highly reliable digital theodolite. Standing in harsh operating conditions, its dependable laser dramatically enhances your job efficiency by providing a bright sharp beam.

**Reliable Theodolite**

**Dual-axis Compensation for Maximum Angle Precision**
- The LDT50 automatically detects tilt in two directions and compensates both horizontal and vertical angles.
- This reliable compensation eliminates time wasted trying to level the instrument perfectly.

**Tilt Warning**
- When the instrument is tilted out of compensation range, the LDT50 provides clear audio and visual display warnings.

**Slope in % and °**
- The vertical angle reading can be switched to per-cent (%) or per-mil (%).

**Free Key Arrangement**
- Any function can be freely assigned to any key of any page.

**Compact Water-protected Body**

**Water Splash Protection**
- The LDT50 is protected against water splash from any direction.
- Waterproof AC adapter EDC2B enables continuous use even in wet or humid environments.

**Operable in Tight Spaces**
- The minimum focus of the optical plummet is a mere 20 cm (7.9 in.) - the LDT50 can easily be set up in tight spaces.
The LDT50 operates for more than five hours with the BDC25A waterproof battery, and the optional BDC12 external battery extends battery life to provide more than thirty hours of continuous use.

The instrument can also be operated from an AC power supply using the EDC2A/EDC2B AC adapters.

**Specifications**

**LASER**
- Light Source / wavelength: Laser Diode / 635nm
- Output Power: 1mW / 2.5mW, selectable
- Laser Class: Class 3A (IEC 60825-1), Class IIIa (FDA CFR 21)
- Laser Beam Focusing: Coincides with telescope focusing. Parallel beam is generated when the focusing ring is adjusted to the mark.
- Laser Range: Output power 1mW, over 200m (656ft.), Output power 2.5mW, over 100m (328ft.)
- Mount Spot Diameter: Distance, 0.5mm (0.02") to 16.0mm (0.63")
- Laser Beam Diameter: 5.0mm (0.2") to 20.0mm (0.79")
- Laser Beam Diameter: 10.0mm (0.39") to 30.0mm (1.18")
- Laser Beam Diameter: 20.0mm (0.79") to 40.0mm (1.57")
- Laser Beam Diameter: 30.0mm (1.18") to 60.0mm (2.36")
- Laser Beam Diameter: 40.0mm (1.57") to 80.0mm (3.15")

**TELESCOPE**
- Telescope: Length: 100mm (3.94") / Objective Aperture: 42mm (1.65")
- Reticle Illumination: Built-in (bright or dim, selectable)

**LDT50 Standard Configuration**

For safety, please read through the operator’s manual carefully before operating. Designs and specifications are subject to change without notice.

**Optional Accessories**
- Diagonal Eyepiece DE24 (waterproof)
- Diagonal Eyepiece DE17A
- Laser Adapter LCA2 (for cross beam)

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