

ADVANCED SURVEYING INSTRUMENTS (INDIA) PVT. LTD.

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HIGH QUALITY
HIGH ACCURACY
HIGH DURABILITY
TESTED IN TOUGHEST ENVIRONMENT



ETL-02D

Pipe Jacking Theodolite



Features

- 1000m Visible pointer and pinpoint accuracy ($\leq 4\text{cm}/1000\text{m}$)
- 1000m Extreme long-range laser
- Up to 2" accuracy
- Clear & large LCD display unit
- Designed to complete the pipe jacking applications



Applications



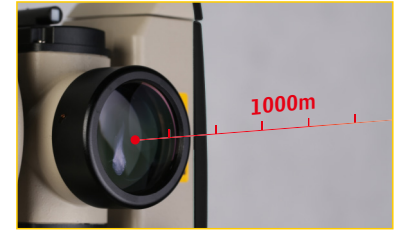
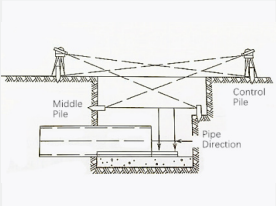
A Simple but Practical Measuring Tool

With a laser plummet for simple and quick setup, single axis compensator, beeping for 90 degrees turns, ETL-02D is a practical measuring tool for your daily work.

When Theodolite Meets Pipe Jacking

Pipe jacking, generally referred to in the smaller diameters as micro-tunnel, is a technique for installing underground pipelines and culverts.

When pushing the specially designed pipes through the ground behind a shield, ETL-02D offers an accurate laser pointer with extreme long range, which will largely decrease the deviation of center axis and elevation.



1000m Extreme Long-range Laser

Pinpoint laser pointer provide long-range and reliable aiming in the pipe jacking constructions, for the micro-tunnels, pipelines and culverts, etc.

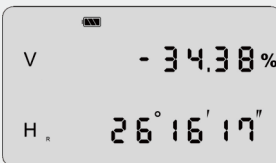


External Power Supply for Full-Days' Work

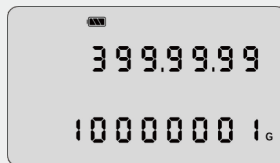
ETL-02D supports the external power supply for any full-days' work, which eliminates the need for recharging or carrying extra batteries.



Easy Operation



Slope



Unit Setting



Laser Pointer



Laser Plummet



Compensator



Auto Off

Specification

Angle Measurement

- Measuring Method: Absolute Encoding
- Diameter of Encoder Disk: 79mm
- Minimum Reading: 1"
- Accuracy: 2"
- Detection Method: Horizontal -Dual, Vertical-Dual

Telescope

- Image: Erect
- Magnification: 26.5x
- Effective Aperture: 40mm
- Resolving Power: 3"
- Field of View: 1°30'
- Minimum Focus Range: 1.5m
- Multiple Constant: 100
- Additive Constant: 0
- Tube Length: 155mm

Laser

- Wavelength: 635±20nm
- Laser Class: Class II
- Diameter: <4cm/1000m
- Tolerance: <10"

Compensator

- Type: Single Axis
- Working Range: ±3'
- Accuracy: ±3"

Bubble

- Plate Bubble: 30"/2mm
- Circular Bubble: 8"/2mm

Laser Plummet

- Accuracy: ±1.5mm, at 1.5m
- Diameter: ±2.5mm, at 1.5m
- Wavelength: 635±20nm
- Laser Class: Class II

Display Unit

- Type: 2.7 Inch LCD screen

Power Supply

- Battery: 7.4V, Lithium battery, 8 hrs

Working Environment

- Range: -30°C~ +55°C

Dimension

- Size: 165*160*340mm
- Weight: 4.7kg