

VISIBILITY MEETS PRECISION

The **DADI DE2A-L** is a high-performance digital theodolite engineered to deliver extreme precision with enhanced visibility. Featuring an ultra-bright coaxial **Red Laser Pointer reaching up to 300m (984 ft)**, it ensures rapid and flawless targeting even in bright daylight or underground construction. Paired with a reliable **2" angular accuracy** and dual LCDs, it is the ultimate tool for any demanding site.



300M RED LASER

2" ANGULAR ACCURACY

ABSOLUTE ENCODER

DUAL LCD DISPLAY

30X MAGNIFICATION

COMPACT & LIGHT

KEY ADVANTAGES

- **Powerful Red Laser:** Highly visible red beam drastically speeds up alignment processes, penetrating up to 300 meters.
- **Dual-Sided Displays:** High-contrast LCD screens with 10 operational keys offer an intuitive and seamless user experience.
- **Robust Tilt Sensor:** Single-axis liquid-electric detection automatically compensates for minor site vibrations.
- **Absolute Encoding:** Advanced sensor system guarantees stable reading without the need for constant zero-resetting.
- **Superior Optics:** 30X magnification with a 47mm objective aperture provides crystal clear imaging across long distances.
- **Portable Design:** Weighing only 4.1 kg (9.0 lb), the DE2A-L is built to minimize fatigue during transport and setup.

DE2A-L SPECIFICATIONS

ANGLE MEASUREMENT

Accuracy	2" (0.6 mgon)
Reading System	Absolute Encoder
Units	DEG / MIL / GON / V%
Minimum Increment	1.0" (0.3 mgon)
Circle Diameter	74 mm (2.9 in)
Horizontal / Vertical Angle	Diametrical / Single

TELESCOPE & LASER

Laser Pointer	Coaxial Red Laser (Up to 300m / 984 ft Range)
Tube Length	120.4 mm (4.7 in)
Image / Magnification	Erect / 30X
Field of View	1° 30'
Resolving Power	3"
Effective Diameter of Objective	47 mm (1.85 in)
Minimum Focusing Distance	1.5 m (4.9 ft)
Reticle Type / Stadia Ratio	Crosshair / 100:0

TILT SENSOR & LEVELING

Type / Method	Single-axis / Liquid-electric detection
Compensation Range	±3'
Circular Level Sensitivity	Tribrach: 10'/2 mm / Body: 8'/2 mm
Tubular Level Sensitivity	30" / 2 mm

GENERAL SPECIFICATIONS

Internal Plummet	Class 2 Laser (1.5 mm @ 1.5 m)
Tangent Clamps	Yes
Dimensions (W x D x H)	180 x 166 x 355 mm (7.0 x 6.5 x 13.9 in)
Main Unit Weight	4.1 kg (9.0 lb)
Battery Weight	0.2 kg (0.4 lb)
Carrying Case Weight	1.7 kg (3.9 lb)

STANDARD PACKAGE

- DADI DE2A-L Digital Theodolite
- Hard Carrying Case
- Rechargeable Battery Pack
- Battery Charger
- Toolkit & User Manual

OPTIONAL ACCESSORIES

- Heavy-Duty Tripod
- Leveling Staff
- Ranging Rod
- Survey Hammer
- 100ft Measuring Tape