

Spectra Precision DET-2 Electronic Theodolite

Applications

- Establishing 90 degree reference lines
- Checking angles, alignment, and plumb
- Anchor bolt alignment
- Gravity flow pipe laser setup
- Steel column placement
- Alignment of forms, tilt-up walls, and curtain walls
- Basic grade work
- Short range leveling



Full Featured Angle Measuring Digital Electronic Theodolite



The Spectra Precision® DET-2 is a rugged, cost-effective theodolite designed to give accurate angle measurements in general construction applications. The affordable, versatile, easy-to-use instrument will increase your productivity when turning angles and setting elevations and lines.



Key Features and Benefits

- 2 arc seconds angular accuracy - accurate enough for any construction job, yet the display resolution can be tailored to any operator's preferences for fast readings
- Vertical axis compensation - tilt sensor provides the highest level of accuracy and can be turned on or off depending on job requirements
- Dual LCD with large characters - easy to see angle readings eliminate errors and reduces eye fatigue
- Simple six button keypad - quick setups and simple operation with low operator learning curve
- Large suite of programmable settings - provide multiple options for various users and job requirements including zero position of vertical angle
- Measurement units in degrees, gon, or mils
- 90 degree angle audible notification - for quick turning and set out of right angles
- Instant conversion of vertical angles to percent of grade - convenient for slope work and when used in conjunction with Dialgrade® pipe work
- An optical plummet allows quick setup over a control point
- NiMH rechargeable battery pack and charger - lower operating cost with reusable batteries
- Alkaline battery pack standard - provides backup and eliminates downtime if the charge is lost in the middle of a job
- Battery strength is indicated on the LCD's for efficient planning. An automatic shut-off can be selected for higher battery efficiency.



DET-2 Electronic Theodolite - Accurate, Affordable, and Easy To Use

DET-2 SPECIFICATIONS

Telescope

- Image: Erect
- Magnification: 30x
- Aperture: 45 mm (1.7 in)
- Focus Distance: 1.35 m to ∞ (4.43 ft) to ∞
- Field of View: 1° 30'
- Stadia Ratio / Constant: 100 / 0

Optical Plummet

- Image: Erect
- Magnification: 3X
- Angle of view: 5°
- Focusing range: 0.5 m ~ ∞ (1.6 ft ~ ∞)
- Reticle type: Crosshair

Angle Measuring System

- Minimum Reading: 1" or 5"
- Precision: 2"
- Units: Deg / mil / gon / V %
- Display: Dual, Large Character, Backlit LCD

Tilt Sensor

- Automatic Compensation: $\pm 3'$ Range
- User set On/Off

Vials

- Tubular: 30"/2 mm
- Circular: 8"/2 mm

One Touch Button Functions

- ON / OFF: Power
- ☀: Backlight / Illumination On / Off
- HOLD: Angle Hold
- R/L: Clockwise/Counterclockwise Measurement
- OSET: Zero Reset of Horizontal Angle
- V%: Convert Vertical Degrees to Percent

Environmental Characteristics

- Dust/Water: IP-54
- Operating Temperature: -20°C to $+50^{\circ}\text{C}$
(-4°F to 122°F)

Physical Characteristics

- Size - Instrument: 164 x 154 x 340 mm
(6.4 x 6.1 x 13.4 in)
- Weight - Instrument: 4.5 kg (9.9 lb)

Warranty

- 2 Year



A large LCD on both sides of the instrument has big, easy to read characters. A built-in reticle illuminator and LCD back-lighting can be turned on if needed in low light conditions with a single press of a button. A six button keypad provides easy access to the most common functions.



Each DET-2 comes equipped with a plumb bob, NiMH rechargeable battery pack and charger, alkaline battery pack, adjustment tools, rain hood, multi-language user guide, and hard-shell, compact, o-ring sealed, carrying case



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