# **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











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: ±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°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

## **Contact Information:**

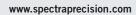
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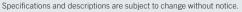
Spectra Precision 3265 Logistics Lane, Suite 200 Dayton, Ohio 45377 ● USA

888-527-3771 (Toll Free)

## EUROPE, MIDDLE EAST, AFRICA

Spectra Precision (Kaiserslautern) GmbH Am Sportplatz 5 • 67661 Kaiserslautern • Germany Phone +49-6301-711414 Fax +49-6301-32213





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