



# DET-2 Construction Theodolite

## Full Featured Digital Theodolite for Construction



### 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
- 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
- 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 hardshell, compact, o-ring sealed, carrying case

### 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

### DET-2

| Telescope               |             | Optical Plummet |           | Angle Measuring System |                                       | Vials    |          | Button Functions |  | Other Specs           |                    |
|-------------------------|-------------|-----------------|-----------|------------------------|---------------------------------------|----------|----------|------------------|--|-----------------------|--------------------|
| Image                   | Erect       | Image           | Erect     | Minimum reading        | 1" or 5"                              | Tubular  | 30"/2 mm | ON / OFF         | Power                                    | Dust/Water            | IP-54              |
| Mag.                    | 30X         | Mag.            | 3X        | Precision              | 2"                                    | Circular | 8'/2 mm  | R                | Backlight / Illumination on / off        | Operating temperature | -20°C to +50°C     |
| Aperture                | 45 mm       | Angle of view   | 5°        | Units                  | Deg / mil / gon / V%                  |          |          | HOLD             | Angle hold                               | Size - instrument     | 164 x 154 x 340 mm |
| Focus distance          | 1.45 m to ∞ | Focusing range  | 0.5 m ~ ∞ | Display                | Dual, Large Character LCD tilt sensor |          |          | R/L              | Clockwise / Counterclockwise measurement | Weight - instrument   | 4.5 kg             |
| Field of view           | 1° 30'      | Reticle type    | Crosshair | Auto compensation      | User Set On / Off ±3' Range           |          |          | OSET             | Zero reset of horizontal angle           | Warranty              | 1 Year             |
| Stadia Ratio / constant | 100 / 0     |                 |           |                        |                                       |          |          | V%               | Convert vertical degrees to %            |                       |                    |

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