

# Electronic Digital Level

DL-502 / 503



High Accuracy  
Electronic Digital Level

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# Quick. Easy. Reliable. Electronic Digital Level

DL-502 / 503

## Digital technology speeds up all leveling tasks

The Topcon DL-500 Series digital levels maximize work efficiency and minimize human error, providing consistent measurement precision and speed, regardless of operator skill.

Incorporating cutting-edge Random-Bidirectional (RAB) coding technology, an optimized digital processing algorithm, the DL-500 provides exceptional measurement accuracy, stability and speed, under a variety of environmental conditions. Even when the staff surface is partially shaded, or in dim lighting conditions as low as 20 lux, a single button triggers measurement and the DL-500 instantly provides reliable results.

The world's first "Wave-and-Read" technology provides an additional survey style option that allows a rod operator to wave the staff forward and back, instead of keeping the staff plumb. This simpler method is faster, easier, minimizes the fatigue and is just as accurate.

## Internal memory and easy data transfer

The DL-500 stores the data for up to 2,000 measurements. MAGNET Office Tools software provides visual tools for post processing, adjustment, and customized reporting.

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**One button triggers  
measurement and data storage**

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**0.6 mm/0.8 mm height accuracy**

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**"Wave-and-Read" technology**

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**Pre-installed measurement  
programs**

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**High accuracy height difference  
measurement**

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**Inverse staff reading for ceiling  
height**

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- 1 LCD display
- 2 Removable Li-ion batter
- 3 7 keys
- 4 Internal memory
- 5 32x telescope (DL-502) / 28x telescope (DL-503)
- 6 Focusing knob
- 7 Measurement key
- 8 RS-232C port

### Single button operation

After focusing on the staff, just press one button. The DL-500 reads height and distance, and stores data. Auto levels require you to read the graduations on the staff with your own eye, but digital technology eliminates misreading and reduces eye fatigue.



# Versatile Performance



## Maximum reliability field-proven compensator

Incorporating a field-proven pendulum compensator with magnetic damping system, the DL-500 provides the stability you need when working on busy roads or bridges subject to vibration.



## Measures ceiling height Inverse staff reading

The DL-500 can read the RAB-code staff in the inverted position. This dramatically facilitates height measurement of ceilings, tree branches, road signs, bridges, tunnel crowns, and other structures.



## “Wave-and-Read” technology

The DL-500 tracks the RAB-code staff when waved forward and back, and automatically reads the correct height. The reading is at the minimum when the staff stands vertically, automatically finding the least value of staff readings.



## Practical measurement programs

### No need for calculators

On-board programs support various measurement routines such as elevation, height difference, ceiling height, as well as cut/fill and stakeout in horizontal distance.

## Key Components

- Digital level
- Power cable
- Hex wrench
- Vinyl cover
- Digital manual
- Carry case
- Battery and charger



Specifications subject to change without notice.  
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