



DL-502 / 503

ELECTRONIC
DIGITAL LEVEL





Quick. Easy. Reliable. Electronic Digital Level

- One button triggers measurement and data storage
- 0.6 mm/0.8 mm height accuracy
- “Wave-and-Read” technology
- Pre-installed measurement programs
- High accuracy height difference measurement
- Inverse staff reading for ceiling height

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.



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.



Telescope	DL-502	DL-503
Magnification	32x	28x
Objective Aperture	45 mm	36 mm
Resolving Power	3 in.	3.5 in.
Field of View	1°20'	
Minimum Focus	1.5 m	
Image	Erect	
Stadia Ratio	100	
Compensator (Magnetic Dampened)		
Working Range	±15	
Height Measurement		
Accuracy (standard deviation for 1 km double run leveling)		
Electronic Reading		
Invar Staff	0.6 mm	0.8 mm
Fiberglass Staff	1.0 mm	1.5 mm
Optical Reading	1.0 mm	2.0 mm
Measuring Range	1.6 to 100 m	
Physical and Environmental		
Dust/Water Rating	IPX4	
Operating Temperature	-20°C to 50°C	
Storage Temperature	-40°C to 70°C	
Operating Time	Up to 16 Hours	
Weight	2.4 kg	
Size	257 x 158 x 182 mm	

Kit components

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



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.



For more information:
topconpositioning.com/dl-500

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