

# eTS5 / eTS5V

## HIGH PRECISE TOTAL STATION

The eSurvey eTS5/eTS5V is a high-precision manual total station, with 2" angle measurement accuracy that meets most survey and stakeout tasks. With Dual QVGA color screens and friction screws, the USB interface makes measurement more efficient. The 3400 mAh battery works continuously for long hours. LED-backlight alphanumerical keyboard makes it possible to operate correctly in the dark.



Optical

### Easy for Survey

Measure more points per day, benefitting from the trigger key and guide light for instant measuring and stakeout and LED-backlight alphanumerical keyboard for operating in dark scenes.

### Rich Data Interfaces for Convenient Data Exporting

Quickly and easily export the measured data via the USB flash drive for data processing.

### Time-saving but High Efficiency

Enjoy smooth movements with no delayed response time for no need to manually lock the shaft once the target is aimed, supported by endless drives.

### Less Workload

Greatly reduce your workload from semi-automatic data collection, and check digital information to make your work easier, supported by Bluetooth function.

### Longer Distance in Reflectorless Mode

Measure distance in reflectorless mode within 1000 m.

### Customized Laser Plummet (eTS5) or Optical Plummet (eTS5V)

Freely choose the optical plummet in an environment of strong sunlight where the laser spot may not be visible or the laser plummets in an environment where it is easy to follow the laser's guidance.



Website



Social media

# Product Specification

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eTS5

eTS5V

Angle Measurement			
Reading system	Absolute encoder	✓	✓
Display resolution	1" / 5" / 10"	✓	✓
Accuracy	2"	✓	✓
Distance Measurement			
Minimum reading	0.001 m	✓	✓
Measurement display	10 digits	✓	✓
Range	<ul style="list-style-type: none"> <li>■ Prism: 2 - 3000 m</li> <li>■ Reflector: 2 - 800 m</li> <li>■ Non-Prism: 2 - 1000 m</li> </ul>	✓	✓
Accuracy	<ul style="list-style-type: none"> <li>■ Prism: ± (2 mm + 2 ppm · D)</li> <li>■ Reflector: ± (3 mm + 2 ppm · D)</li> <li>■ Non-prism:                             <ul style="list-style-type: none"> <li>● 2 - 150 m: ± (3 mm + 2 ppm · D)</li> <li>● 150 - 300 m: ± (5 mm + 3 ppm · D)</li> <li>● 300 - 500 m: ± (10 mm + 5 ppm · D)</li> <li>● 500 - 800m: ± (20 mm + 10 ppm · D)</li> </ul> </li> </ul>	✓	✓
Telescope			
Magnification	30x	✓	✓
Field angle	1°30'	✓	✓
Minimum focus	1 m	✓	✓
Objective aperture	EDM 50 mm	✓	✓
Image	Erect	✓	✓
Resolution	4"	✓	✓
Reticle illumination	1 level	✓	✓
Laser pointer	Support	✓	✓
Guide light	Support	✓	✓
Compensator			
Compensator type	Dual axis	✓	✓
Compensator range	±3'	✓	✓
Compensator resolution	1"	✓	✓
Measurement Time			
Tracking/rapid/fine	0.2 seconds / 0.6 seconds / 1 second	✓	✓
Level Vial Sensitivity			
Plate level	30" / 2 mm	✓	✓
Circular level	8' / 2 mm	✓	✓

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Laser Plummet			
Laser accuracy	±1 mm within 0.8 - 1.5 m	✓	✗
Laser spot	≤2.5 mm within 0.8 - 1.5 m	✓	✗
Wavelength	635 nm	✓	✗
Safety	Class 2	✓	✗
Output power	0.7 - 1.0 mW	✓	✗
Optical Plummet			
Accuracy	±0.8mm / 1.5m	✗	✓
Image	Erect	✗	✓
Magnification	3x	✗	✓
Data Management			
Memory	50,000 points	✓	✓
TF card	8 GB	✓	✓
Bluetooth	Optional	✓	✓
Software Menu Style			
Icon-based	Support	✓	✓
Battery			
Voltage	DC 7.4 V	✓	✓
Capacity	3400 mAh	✓	✓
Alert	<ul style="list-style-type: none"> <li>■ Low voltage</li> <li>■ Power off automatically after 10 minutes</li> </ul>	✓	✓
Working time	<ul style="list-style-type: none"> <li>■ Angle and distance measurement: &gt;8 hours (measure distance every 30 seconds)</li> <li>■ Angle measurement: &gt;12 hours</li> </ul>	✓	✓
Charge time	4 hours	✓	✓
Physical Specification			
Dimension	206 mm × 203 mm × 360 mm	✓	✓
Screen	Alphanumerical keyboard Dual QVGA color screens (240 x 320 dots) Keys x 28 (per side) Graphic LCD (8 lines)	✓	✓
Key for fast measurement		✓	✓
Interface	RS-232C	✓	✓
USB		✓	✓
Water/dust proof	IP55	✓	✓
Working temperature	-20°C - +50°C	✓	✓
Storage temperature	-40°C - +70°C	✓	✓
Prism constant range	-999.9 - + 999.9 mm	✓	✓
Atmos correction PPM	Automatically calculated	✓	✓
Friction screws / endless drives		✓	✓

# e-survey