

eTS5

HIGH PRECISE TOTAL STATION

The eSurvey eTS5 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.

Less Workload

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

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.

Longer Distance in Reflectorless Mode

Measure distance in reflectorless mode within 1000 m.

Rich Data Interfaces for Convenient Data Exporting

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



Website



Social media

Product Specification

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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"> ■ Prism: 2 - 3000 m ■ Reflector: 2 - 800 m ■ Non-Prism: 2 - 1000 m
Accuracy	<ul style="list-style-type: none"> ■ Prism: ± (2 mm + 2 ppm · D) ■ Reflector: ± (3 mm + 2 ppm · D) ■ Non-prism: <ul style="list-style-type: none"> ● 2 - 150 m: ± (3 mm + 2 ppm · D) ● 150 - 300 m: ± (5 mm + 3 ppm · D) ● 300 - 500 m: ± (10 mm + 5 ppm · D) ● 500 - 800m: ± (20 mm + 10 ppm · D)

Telescope	
Magnification	30x
Field angle	1°30'
Minimum focus	1 m
Objective aperture	EDM 50 mm
Image	Erect
Resolution	3"
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

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

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"> ■ Low voltage ■ Power off automatically after 10 minutes
Working time	<ul style="list-style-type: none"> ■ Angle and distance measurement: >8 hours (measure distance every 30 seconds) ■ Angle measurement: >12 hours
Charge time	4 hours

Physical Specification	
Dimension	206 mm × 203 mm × 360 mm
Screen	Alphanumeric keyboard Dual QVGA color screens (240 x 320 dots) Keys x 28 (per side) Graphic LCD (8 lines)
Key for fast measurement	Support
Interface	RS-232C
USB	Support
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	Support
Certificate	CE, FCC