

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"> ■ 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 | 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 second / 0.6 second / 1 second | ✓ | ✓ |
| Level Vial Sensitivity | | | |
| Plate level | 30" / 2 mm | ✓ | ✓ |
| Circular level | 8' / 2 mm | ✓ | ✓ |

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eTS5

eTS5V

| 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 | ✓ | ✓ |
| SD 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 | 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



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Website



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