

# eTS8

## ANDROID SMART TOTAL STATION

The eSurvey eTS8 is a high precision manual total station, with accurate angle and distance measurement. It can work reliably and deliver good results even in harsh environments. And its simple operations make most survey and stakeout tasks more efficiently.



### **Android 6.0 Operating System: Powerful and Intelligent**

Upgrade software and customize functions based on different needs. Powered by the open platform and high stability of the Android 6.0 operating system, enjoy fast processing of large amounts of data. The system can easily run complex computing programs with an MT6753 core processor, 3GB RAM, and 32GB ROM.

### **Highly Scalable Development Kit: Rich APP Expansion**

Customize the development of functions for different scenarios, thanks to the high-performance secondary development program.

### **5.0-inch HD (720 x 1280) Display: Touchable and Interactive**

Easily input data with the humanized interactive interface.

### **Map Loading and Visual Graphic Importing**

Check the spatial location relationship between measurement points and instrument stations to inspect and plan your survey work, with the large-capacity 2D maps loaded online. Control the survey area at any time and compare with the actual measurement work results in real-time, according to the DWG visualization graphics.

### **Comprehensive Interface for Data Communication**

Quickly and easily achieve data communication via the built-in Bluetooth, Wi-Fi, Wi-Fi hotspot, 4G module, and USB interface; experience efficient transmission and intelligent interconnection through the Internet and cloud platform.



Website



Social media

# Product Specification

## eTS8

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#### Angle Measurement

|                    |                  |
|--------------------|------------------|
| Reading system     | Absolute encoder |
| Display resolution | 0.1" / 1" / 5"   |
| Accuracy           | 2"               |

#### Distance Measurement

|                     |                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum reading     | 0.001m                                                                                                                                                                                                                                                         |
| Measurement display | 11digits                                                                                                                                                                                                                                                       |
| Range               | <ul style="list-style-type: none"><li>Prism: 5000 m</li><li>Reflector: 1000 m</li><li>Non-Prism: 1000 m</li></ul>                                                                                                                                              |
| Accuracy            | <ul style="list-style-type: none"><li>Prism: <math>\pm (2 \text{ mm} + 2 \text{ ppm} \cdot D)</math></li><li>Reflector: <math>\pm (2 \text{ mm} + 2 \text{ ppm} \cdot D)</math></li><li>Non-Prism: <math>3 \text{ mm} + 2 \text{ ppm} \cdot D</math></li></ul> |

#### Telescope

|                      |           |
|----------------------|-----------|
| Magnification        | 30x       |
| Field angle          | 1°30'     |
| Minimum focus        | 1.4m      |
| Objective aperture   | EDM 50 mm |
| Image                | Erect     |
| Resolution           | 3"        |
| Reticle illumination | 4 level   |
| Laser pointer        | Support   |

#### Compensator

|                        |           |
|------------------------|-----------|
| Compensator type       | Dual axis |
| Compensator range      | $\pm 4'$  |
| Compensator resolution | 1"        |

#### Measurement Time

|                     |                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tracking/rapid/fine | <ul style="list-style-type: none"><li>Prism:<ul style="list-style-type: none"><li>fine: 0.3 seconds</li><li>tracking: 0.1 seconds</li></ul></li><li>Non-prism: 0.3~3 seconds</li></ul> |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Level Vial Sensitivity

|                |            |
|----------------|------------|
| Plate level    | 30" / 2 mm |
| Circular level | 8' / 2 mm  |

#### Laser Plummet

|                |                                      |
|----------------|--------------------------------------|
| Laser accuracy | $\pm 1.5 \text{ mm} @ 1.5 \text{ m}$ |
| Wavelength     | 630 ~ 670nm                          |
| Safety         | Class 2                              |
| Output power   | $\leq 1.0 \text{ mW}$                |

#### Data Management

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Memory    | <ul style="list-style-type: none"><li>RAM: 3GB</li><li>ROM: 32GB</li></ul> |
| TF card   | 32GB (maximum support 128GB)                                               |
| Bluetooth | Support                                                                    |

#### Software Menu Style

|            |         |
|------------|---------|
| Icon-based | Support |
|------------|---------|

#### Battery

|              |                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------|
| Voltage      | DC 7.4 V                                                                                        |
| Capacity     | 3100 mAh                                                                                        |
| Alert        | <ul style="list-style-type: none"><li>Low voltage</li><li>Only 15% power left warning</li></ul> |
| Working time | 8hours                                                                                          |
| Charge time  | 1.5 hours                                                                                       |

#### Physical Specification

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension            | 200mm × 170mm × 350mm                                                                                                                                                 |
| Screen               | <ul style="list-style-type: none"><li>Numeric Keyboard</li><li>Key x 17 (per side)</li><li>Dual TFT screens (720 x 1280 dpi)</li><li>Graphics, 5.0 Inch LCD</li></ul> |
| Interface            | USB-Type C, TF card slot, Micro-SIM card slot                                                                                                                         |
| USB                  | Support OTG                                                                                                                                                           |
| Water/dust proof     | IP55                                                                                                                                                                  |
| Working temperature  | -20°C ~ +60°C                                                                                                                                                         |
| Storage temperature  | -30°C ~ +70°C                                                                                                                                                         |
| Prism constant range | Manual Input, Auto Correction                                                                                                                                         |
| Atmos correction PPM | Manual Input, Auto Correction                                                                                                                                         |

#### Operation System

|     |         |
|-----|---------|
| OS  | Android |
| CPU | MT6753  |