

# 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.



Optical

### **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

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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 levels
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	2.5 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