

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 11.0 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 11.0 operating system, enjoy fast processing of large amounts of data. The system can easily run complex computing programs with an MT6762 core processor, 4GB RAM, and 64GB ROM.

Highly Scalable Development Kit: Rich APP Expansion

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

5.5-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">Prism: 5000 mReflector: 1000 mNon-Prism: 1000 m
Accuracy	<ul style="list-style-type: none">Prism: $\pm (2 \text{ mm} + 2 \text{ ppm} \cdot D)$Reflector: $\pm (2 \text{ mm} + 2 \text{ ppm} \cdot D)$Non-Prism: $3 \text{ mm} + 2 \text{ ppm} \cdot D$

Telescope

Magnification	30x
Field angle	1°30'
Minimum focus	1.2 m
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">Prism:<ul style="list-style-type: none">fine: 0.3 secondstracking: 0.1 secondsNon-prism: 0.3 ~ 3 seconds
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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 ~ 670 nm
Safety	Class 2
Output power	$\leq 1.0 \text{ mW}$

Data Management

Memory	<ul style="list-style-type: none">RAM: 4GBROM: 64GB
TF card	32GB (maximum support 128GB)
Bluetooth	Support

Software Menu Style

Icon-based	Support
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Battery

Voltage	DC 7.4 V
Capacity	3100 mAh
Alert	<ul style="list-style-type: none">Low voltageOnly 15% power left warning
Working time	8hours
Charge time	2.5 hours

Physical Specification

Dimension	350 mm × 170 mm × 217 mm
Screen	<ul style="list-style-type: none">Numeric KeyboardKey x 17 (per side)Dual TFT screens (720 x 1280 dpi)Graphics, 5.5 Inch LCD
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
Certificate	CE, FCC

Operation System

OS	Android 11.0
CPU	MT6762