

ROBUST® RTS-XI

ANDROID TOTAL STATION

Smart Precision, Boundless Efficiency

(a complete range of Civil Surveying Products...)

ASI
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Surveying Instruments



POWERFUL ANDROID PLATFORM

Running on the open Android 9.0 system, the RTS-XI total station offers a user-friendly 5-inch touchscreen interface, allowing seamless integration with 3rd-party apps & easy operation. Partnered with default Android survey software or optional Singular Pad software, the RTS-XI provides detailed workflow and comprehensive surveying & staking out functions onboard.

HIGH-PRECISION MEASUREMENTS

Equipped with a high-performance EDM, the total station delivers 1" angle accuracy and exceptional distance measurement capabilities—up to 1,500m in reflectorless mode and 5,000m with a prism. Its fast measurement response ensures reliable results for construction, engineering, and topographic applications.

DURABLE DESIGN FOR TOUGH ENVIRONMENTS

Engineered for fieldwork, this total station features a rugged, weather-resistant build and dual-axis compensation for stable use on uneven ground. With large storage, USB, Bluetooth, RS232, and Wi-Fi, it supports fast data transfer and efficient data management. A strong battery and durable shell keep it running in harsh outdoor conditions.

RTS-XI ANDROID TOTAL STATION

DISTANCE MEASUREMENT

Range	- Non-prism: 1500 m - Single prism: 5000 m
Accuracy (reflector)	1 mm+1.5 ppm
Accuracy (reflectorless)	- 0-300m: 2 mm+2 ppm - 300-600m: 3 mm+2 ppm - >600m: 5 mm+2 ppm
Measurement time	- Continuous: < 0.7s - Tracking: < 0.3s - Fine: < 1.5s

ANGLE MEASUREMENT

Detection method	Absolute Encoding
Disk diameter	79mm
Minimum reading	0.1 / 1"
Accuracy	1"

COMPENSATION

Type	Quadruple Axis liquid-electric sensor
Compensator range	±6'
Correction unit	±3"
Atmospheric correction	Temperature-pressure sensor auto correction
Prism constant	Auto correction
Trigger	Under battery house

VIAL

Circular level sensitivity	8'/2 mm
Plate level sensitivity	30"/2 mm
Plummet	Laser plummet

TELESCOPE

Magnification	30x
Aperture	- Effective: 45mm - DTM: 47mm
Field of view	1° 30'
Minimum focus	1.5 m
Resolution	3"
Image	Erect
Tube length	150 mm

DISPLAY

Display	Dual-side LCD graphic touch screen
Size	5"
Resolution	1280*720
Graphic Display	Max: 99999999.999 m Min: 0.1 mm

SYSTEM

Operating system	Android 9.0
CPU	Qualcomm MSM8953
Storage	3GB RAM + 32GB ROM

COMMUNICATION

Bluetooth	v 4.2LE
Wi-Fi	802. 11b/g (2402 MHz~2482 MHz)
4G	TDD-LTE B34/38/40/41 FDD-LTE B1/3/5/8 GSM 900/1800MHz CDMA BC0 WCDMA B1/8

ELECTRICAL

Battery voltage	DC 7.4V
Battery capacity	5000mAh rechargeable Lithium battery
Operating time	12 hours NEZ & 18 hours Angle Mode

PHYSICAL

Size	206mm × 200mm × 353mm
Weight	6.0 kg

ENVIRONMENTAL

Working temperature	- 20 °C to + 50 °C
Storage temperature	- 40 °C to + 50 °C
Waterproof & dustproof	IP55

All specifications are subject to change without notice.

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