



ROBUST

Android 1" Total Station



ROBUST Android 1" Accuracy Total Station

Originated from European optical technology, with special dense bead shaft system, center compensator, new generation measuring ruler and the static absolute encoding disc, ROBUST Android Total Station comes with higher quality, accurate and stable performance.

Lithium-ion Battery

Default 2 batteries Working time up to 8 hours.

Touch Measurement

The patented touch trigger key helps mitigate the impact of jitter on the measurement.

Handy Brake Wrench

User never feels tired with the ergonomic design which fits human fingers. Lock and unlock with a gentle press.

Laser Plummet

Coaxial laser plummet makes it more convenient to track the targets.

Advanced Optical System

Europe optical technology helps effectively suppress chromatic aberration and make clearer observation.

BT5.0/BLE

For external device access and data transmission.

Efficient Processor

With advanced architecture processor to lower energy consumption and improve the stability of the total station.

Type-C

Support data upload and download through Type-C interface, and firmware upgrades.



Precise Distance Measuring Technology

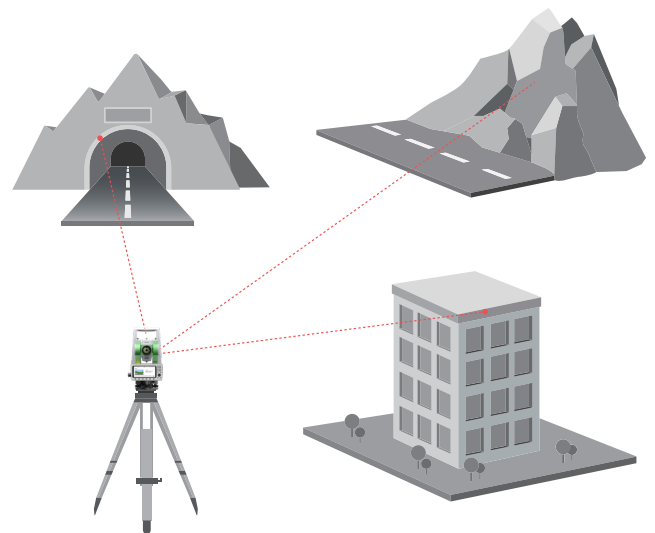
ROBUST can achieve fast and accurate distance measurement through built-in eight adaptive high-frequency measuring rulers and advanced phase laser ranging algorithms, meeting the accuracy requirements of various advanced engineering measurements.

1,000m

Non-Prism Distance Measurement

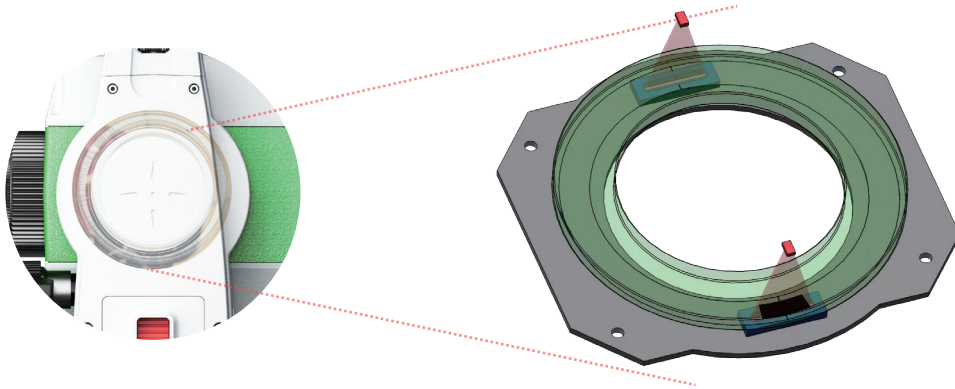
6,000m

Single Prism Distance Measurement



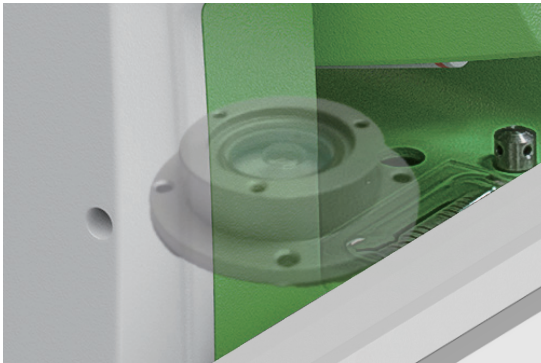
Precise Angle Measuring Technology

Self-developed high-precision angle measurement system technology includes coding, high-precision code disc, linear array CCD photoelectric measurement, decoding, redundancy, calibration, multi-sensor combination algorithm and other sub-technologies, providing on-site jobs with high stability and fault tolerance.



Coaxial comprehensive compensation

Compensator is located directly above the vertical axis. It can quickly and accurately compensate during rotation. At the same time, CCD is used for precise calibration. The compensation range is up to 6', and the operation efficiency is extremely high.



Special Grade Dense Bead Shaft System

Using customized ultra-high-precision grinder precision processing technology, the carefully selected top-grade G3 steel balls are processed through dozens of processes to create a special-grade dense ball shaft system that can meet the stringent requirements of 1"-level instruments.

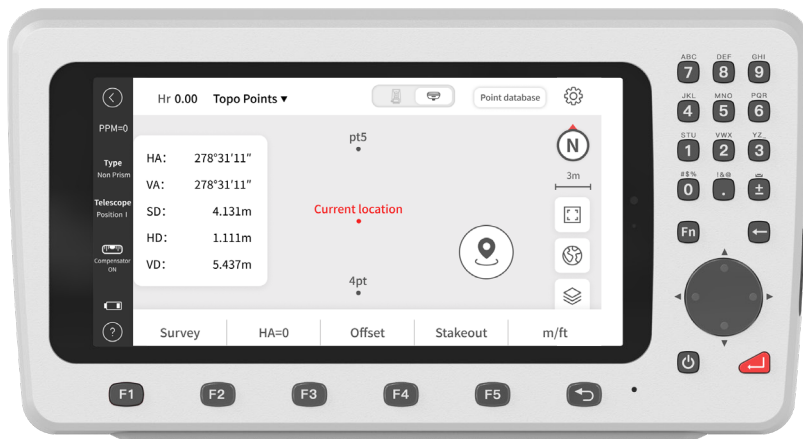


Strong Protection

Excellent protective performance, powerful precision shafting electronic compensation technology and high redundancy. The angle measurement decoding algorithm allows the total station to be used in various extreme engineering environments, making measurements stable and reliable.



Powerful System



Android System

Android 11.0, 8-Core 2GHz CPU, 4G RAM+64G ROM.



Transflective Screen

5.5" transflective screen touch screen, clearly visible under sunlight.



Physical Buttons

Sleek and comfortable backlit keys, supports all-weather operations.

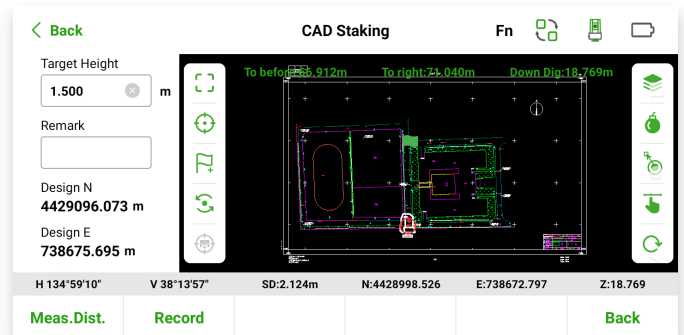
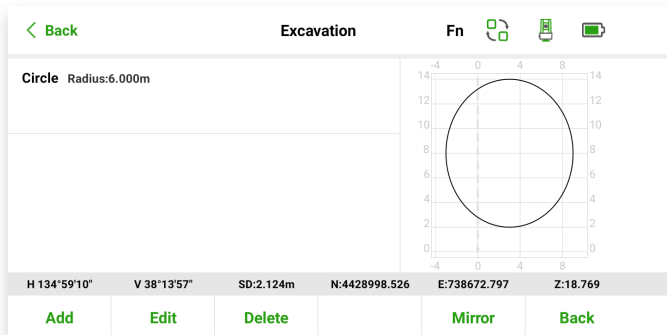


Temperature and Atmospheric Pressure Sensing

Built-in temperature and atmospheric pressure sensor, automatically corrects parameters during high-precision measurement.

Based on the actual needs of front-line surveyors, Robust Android total station panel is designed with a 5.5" touch screen + temperature and pressure sensing physical buttons, which takes advantage of Android system and is more in line with measurement habits. Outstanding hardware and professional software make measurements easier.

Support Classic Functions



Versatile Functions (take road stakeout for example)



Engineering Management



Job Management



Line Management



Record



Point Database



Stakeout Database



Line Database



Area Database

Accuracy that high-class projects can trust



Road

ROBUST has excellent angle measurement accuracy, distance measurement accuracy and compensator accuracy, and is suitable for highways and high-precision rail transit.



Unique coding design and highly fault-tolerant photoelectric decoding technology allow the code disc to accurately measure angles even when 60% of them are blocked, achieving accurate readings without fear of moisture and dust.



Bridge

ROBUST Android total station has excellent distance measuring performance. It has fast short-distance measurement speed and high long-distance accuracy. It is suitable for bridge installation and construction.

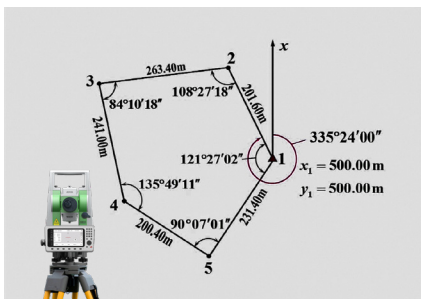


Online power supply and debug.



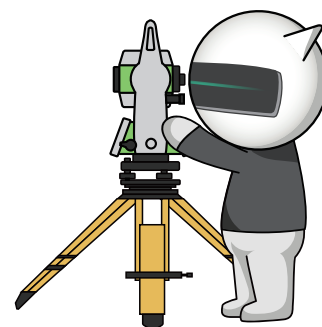
Tunnel

Unique angle measurement technology, no fear of dust and condensation, with laser indicator and keyboard back-light, ROBUST is fully qualified for tunnel measurement.



Traverse Survey

ROBUST Android total station has stable angle measurement accuracy and distance measurement accuracy, strong consistency, and is suitable for traverse survey.



Professional Set



Total station	×1
Battery	×2
Charger	×1
Tool bag	×1
Manual	×1
Warranty Card	×1
Certificate	×1
USB flash drive	×1
RP60 reflector	×1
RP30 reflector	×1
Objective cap	×1
Data Cable	×1

Technical Specification

Telescope	Image	Right-reading	
	Magnification	30x	
	Field Of View	1°30'	
	Minimum Focus	1.7m	
	Resolution	2.8"	
Angle Measurement	Accuracy	1"	
	Reading System	Absolute Encoders	
	Minimum Reading	1"	
Distance Measurement	Measuring	Non-Prism	1000m
		Reflector	2500m
		Single Prism	6000m
	Single Prism	$\pm(1\text{mm}+1\times 10^{-6}\times D)$	
	Accuracy	Non-Prism	$\pm(2\text{mm}+2\times 10^{-6}\times D)$
		Reflector	$\pm(1\text{mm}+1\times 10^{-6}\times D)$
	Time	Fine: 0.5s Rapid: 0.4s Tracking: 0.2s	
Compensator	Minimum Display	Fine / Tracking: 0.1mm	
	Compensator Type	Quadruple axis	
	Compensator Range	$\pm 6'$	
	Compensator Resolution	1"	
Laser Plummet	Accuracy	1.5mm@1.5m	
	Wavelength	635nm	
	Safety	Class2	
	Output Power	0.7-1.0nw	
Level Vial Sensitivity	Tubular Level	30"/2mm	
	Circular Level	8"/2mm	
Panel	Screen	5.5" transfective touch screen	
	Key	x26	
	Backlight	Support	
Power	Battery	Type: 5600mAh*2 Li-ion battery	
	Working Time	Angle Measuring	single screen 20h double screen 12h
		Distance Measuring + Angle Measuring	single screen 12h double screen 8h
Environment	Operating Temperature	$-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$	
	Storage Temperature	$-30^{\circ}\text{C} \sim +65^{\circ}\text{C}$	
	Water/Dust Proof	IP66	

*The above technical parameters are for your reference. The company reserves the right to change the design and planning of the product based on the actual product.

ASI ROBUST
Surveying Instruments

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