





"ROBUST" TS-R10

Precision Total Station

1"/1.5" angular accuracy | 1000m without prism | 3.2-inch screen | Photoelectric Compensator







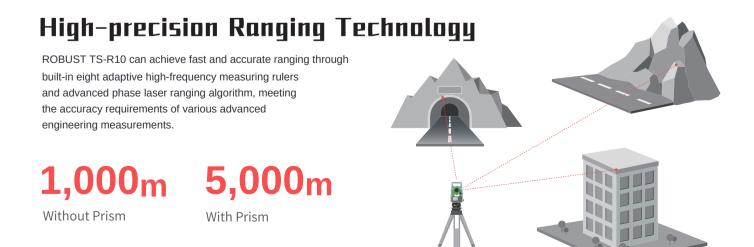




Precision Total Station

Originated from European optical technology, TS-R10 comes out with a brand new hardware structure and new measuring tape, and static absolute encoder. The 1"/1.5" angle measurement accuracy and the 1000m non-prism measuring range enable the ROBUST TS-R10 to do various kinds of precision measurements.

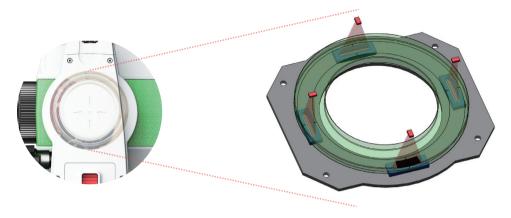






Angle measuring technology

Absolute encoder enables angle measurement accuracy in dusty, humid and other harsh conditions. Starting up without initialization, all information will be kept after power interruption, power off or restart. The self-developed precision angle sensor design, error compensation algorithm, combined with photoelectric decoding, top-notch precision photolithographic absolute coding disk, brings stable and reliable accuracy.



Photoelectric Compensator

The compensator is located just above the vertical axis, and the accurate compensation is obtained quickly between rotations. At the same time, the CCD is used for accurate calibration, and the compensation range is as high as 6', high operation efficiency.



Superfine Shafting

The high-quality alloy steel is heat-treated several times being processed with a specially designed ultra-high precision grinder. The G3 top-grade steel balls are selected and ground through dozens of procedures to meet the strict requirements of 1"/1.5" accuracy instruments.



Strong Protection

Powerful and precise electronic compensation and high redundancy angle measurement algorithm enable the total station to work efficiently and reliably in all kinds of extreme environments.





User-friendly High-precision Total Station



Equipped with a full-featured operation panel, 3.2-inch bright colour screen, and buttons with comfortable spacing and without sound. Built-in commonly used measurement functions, standard Bluetooth 5.0 for convenient data transmission, and the third-party application. ROBUST TS-R10 is a combination of advanced hardware and software!

3.2-inch Color Screen

Larger screen brings more data display and good viewing experience.

Rounded backlight button

The rounded backlight button makes it easier for measurement work at night.

Customized Fn Function Key

The customized function key for a personalized total station.

One-touch Laser Fixed

One touch, rapid centring and leveling up for measurement.

On-board Measurement Software

























Third-party APP Support

ROBUST TS-R10 supports Dimap Pro and other third party softwares. The involvement of cell phones gives an intelligent edge to the traditional engineering total station.







Accuracy you can count on for high-grade engineering



Tunnel

With unique angle measurement technology and Well operation under dust and condensation conditions; with laser indicator and keyboard backlight, ROBUST TS-R10 is fully qualified for tunnel measurement applications.



With anti-fouling code wheel design, the code wheel can still accurately measure angles when 70% of the code wheel is blocked.

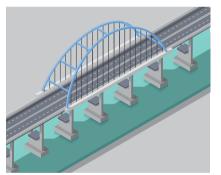


Foundation Pit

ROBUST TS-R10 has an angle measurement accuracy of 1" and a distance measurement accuracy of up to 1+1, fully complying with foundation pit monitoring specifications.



Configured online power supply and debugging functions makes ROBUST TS-R10 can be widely used for monitoring and system integration applications.



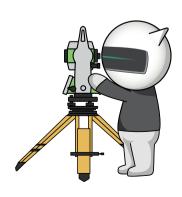
Bridge

ROBUST TS-R10 has excellent distance measurement performance, with fast short-distance ranging speed and high long-distance accuracy, making it suitable for bridge installation and construction.



Roadways

ROBUST TS-R10 has excellent angle measurement accuracy, distance measurement accuracy and compensator accuracy, and is suitable for highways and high-precision rail transit.







Total station	Х1
Battery	Х2
Charger	Х1
Tool bag	Х1
Manual	Х1
Warranty Card	Х1
Certificate	Х1
USB flash drive	Х1
RP60 reflector	Х1
RP30 reflector	Х1
Objective cap	Х1

"ROBUST" TS-R10

Telescope	Image	Right-reading	
	Magnification	30x	
	Field Of View	1°30′	
	Minimum Focus	1m	
	Resolution	2.8"	
Angle Measurement	Accuracy	1.5" 1"	
	Reading System	Absolute Encoders	
	Minimum Reading	1" 1"/ 0.2" (Optional)	
Distance Measurement	Measuring	Non-Prism 1000m 1000m Reflector Sheet 2000m 2000m	
		Single Prism 5000m 5000m	
	Measuring Accuracy	Non-Prism $\pm (3mm + 2 \times 10^{-6} \times D)$	
		Reflector Sheet $\pm (3mm + 2 \times 10^{-6} \times D)$	
		Single Prism _(1.5") \pm (2mm + 2 \times 10 ⁻⁶ \times D) Single Prism _(1") \pm (1mm + 1 \times 10 ⁻⁶ \times D)	
	Time	Fine:0.7s Rapid:0.5s Tracking:0.3s	
	Minimum Display	Fine/Tracking:0.1mm	
Compensator	Compensator Type	Dual axis	
	Compensator Range	±6′	
	Compensator Resolution	1"	
Laser Plummet	Accuracy	1.5mm@1.5m	
	Wavelength	635nm	
	Safety	Class2	
	Output Power	0.7-1.0nw	
Level Vial	Tubular Level	30"/2mm	
Sensitivity	Circular Level	8'/2mm	
Keyboard	Screen	3.2-inch colour screen (both side)	
	Key	x26 (Identical Dual Display)	
	Backlight	Support	
Communication	Port	USB, Bluetooth	
	Data Memory	120000 points/2GB Internal 32GB External 2600mAH & 3400mAh Li-ion battery	
Power	Battery Working Time		
		Low voltage alert 36 hours+ angle mode	
		25 hours+ angle and distance mode	
Physical	Operating Temperature		
	Storage Temperature	-20°C ~ +55°C -30°C ~ +65°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.

Advanced Surveying Instruments (India) Pvt. Ltd.



Q H-10/103, 1st Floor, Express Arcade, Netaji Subhash Place, Pitampura, New Delhi - 110034

+91 - 9910697973

www.asisurveyinginstruments.com



Corp. Off.: H-10/103, 1st Floor, Express Arcade, Opposite P.P. Trade Centre, Netaji Subhash Place, Pitampura, New Delhi-110 034, INDIA Tel.: 011-47014143, Mob.: +91-9015653093, 9910697973

E-mail: balinder2kumar@yahoo.com asi.pradeep@yahoo.com

Website : www.asicivilsurvey.com www. robustsurveying.com