

ROBUST TS-W1X

1" Accuracy Android Total Station



OPTICAL ELECTROMECHANICAL TECHNOLOGY ORIGINATED FROM EUROPE, SUPER DENSE BEAD SHAFT SYSTEM AND CENTER COMPENSATOR, NEW GENERATION MEASURING RULER AND STATIC ABSOLUTE ENCODING DIAL, SUPER PRECISION BASE, FOUR-QUADRANT PRECISION ANGLE SENSOR, GLOBAL SUB-SECOND LEVEL HIGH-ORDER ERROR COMPENSATION ALGORITHM, ROBUST TS-W1X 1" ACCURACY ANDROID TOTAL STATION, WITH INTELLIGENTLY IMPROVED SOFTWARE AND HARDWARE, IS USED IN HIGH-LEVEL PROJECTS SUCH AS CONTROL MEASUREMENT, INDUSTRIAL MEASUREMENT, TUNNEL ENGINEERING, AND DEFORMATION MONITORING.



Dense bead
shaft system



Center
compensator



Precision
ranging



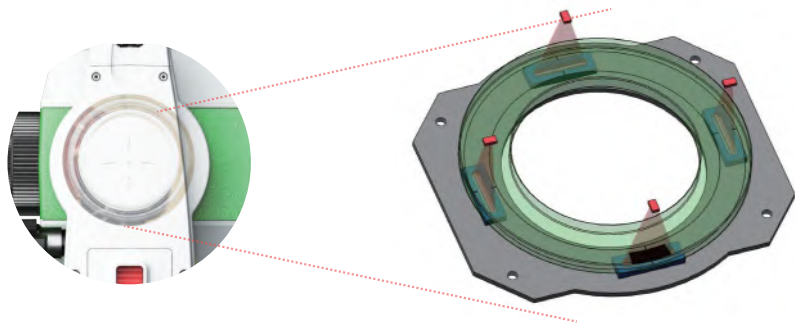
Touch
Measurement



IP68

4CCD precision angle measurement technology

Adopting a self-developed four-quadrant precision angle sensor architecture, adding a global sub-second high-order error compensation algorithm, combined with sub-pixel resolution photoelectric decoding and nano-level photolithography absolute encoding code disk, it brings stable and reliable one-second angle measurement Accuracy.



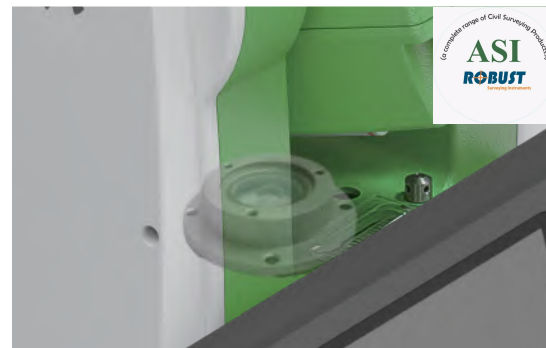
High-grade dense bead shaft system

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" second total station.



Center compensator

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



Projects

(With road, bridge and tunnel professional field software)



Roads



Bridge engineering



Tunnel Engineering



Foundation pit engineering

ROBUST TS-W1X Specifications

Accuracy	1"
Screen size	5.5" touch screen
Distance	Non-prism 1000m Single prism 5000m
Non-prism accuracy	$\pm (3+2 \times 10^{-6}D)$ mm
Single prism accuracy	$\pm (1+1 \times 10^{-6}D)$ mm
Type	Dual Axis Photo-Electric Compensator
Range	$\pm 6'$
Compensator resolution	1"
Battery	Battery Duration & Operation Time Angle measurement: 30h for single screen, 16h for dual screen
Battery life	Ranging + angle measurement: 16h for singlescreen, 12h for dual screen
Waterproof and dustproof	IP68