

## SPECIFICATIONS

TS-R1X	
<b>Measuring Range</b>	
1P	5.0km
3P	8-10 km
Non prism	1000m
Digital Display	Maximum: 99999999.9999 Minimum: 0.1mm
Accuracy	With prism: 2mm+2ppm, without prism 3mm+2ppm
Measuring Time	Tracking 0.1s, Fine 0.3s (optimal)
Atmospheric Correction	Automatic Correction by Inputting Parameter
Prism Constant	Automatic Correction by Inputting Parameter
<b>Angle Measurement</b>	
Measurement Method	Absolute Encoding
Diameter of The Raster Disk	79mm
Minimum Reading	1 " / 5 " Optional
Accuracy	2 "
Detection Method	Horizontal: Four Sensors Vertical: Four Sensors
<b>Telescope</b>	
Image	Erect
Length	154mm
Effective Aperture	45mm (DTM 50mm)
Magnification	30 X
Field of View	1° 30'
Resolving Power	3 "
Minimum Focus	1m
<b>Compensation</b>	
System	Dual axis liquid-electric
Working Range	±3'
Resolving Power	1 "
Sensitivity of Vials	
Plate Vial	30 " /2mm
Circular Vial	8' /2mm
Laser Plummet	Yes
<b>Data Storage and Communication</b>	
Internal Memory	4M /40000 points
External Memory	SD card (up to 32G)
Communication Port	RS-232, mini USB
<b>Display</b>	
Type	Dual sides, 6 lines, black and white
Battery	
Power Supply	Rechargeable battery (3100mAH)
Voltage	7.4V DC
Operation Time	10 hours
<b>Dimension and Weight</b>	
Dimension	160mm×150mm×330mm
Weight	5.7 kg
<b>Environmental Specification</b>	
Dust/Water (IEC60529)	IP66
Working Temperature Range	-20°C~50°C
Humidity	95%, non-condensing



# TS-R1X



The High Performance  
Total Station with Great  
Reliability, Flexibility and Economy



Where Challenging Happens, Where Amazing Happens.



The spirit of exploration and challenge is just like the light, leading people to advance to new frontiers.

In March 2021, Advanced Surveying was chosen as the official equipment for INDIA'S national surveying team and reached the summit of Kargil & Leh Padam, Zaskar (Mount). During this mission of re-measuring the height of the Pensi La Top, these surveyors showed us that we should never give up trying to achieve our dreams.













To mark this important milestone, ROBUST launches a new total station R1X-ROBUST series.

R1X is the unknown,  
R1X is the impossible,  
R1X is the extreme,










Let's meter all the "R1X" with our skill, courage and wisdom.  
Challenging Never Stops.

## Seven Major Improvements To lift your capability and productivity

### TECHNOLOGIES

- |  |  |  |
|--|--|--|
| <br>1000m<br>Reflectless          | <br>Ultra Fast<br>Measurement | <br>Co-axial<br>Laser Beam    |
| <br>Ultra Low-<br>noise Amplifier | <br>Noise Phase<br>Analysis   | <br>Carrier<br>Frequency      |
| <br>Bluetooth                     | <br>SD Card Storage           | <br>Dual Axis<br>Compensation |
| <br>Laser Plummet               | <br>Laser Pointing          | <br>IP66                    |

### PROGRAMS

- |  |   |  |
|--|---|--|
| <br>REM           | <br>Resection    | <br>Road Design     |
| <br>Column Offset | <br>Plane Offset | <br>Distance Offset |
| <br>Area Cal.     | <br>MLM          | <br>P/L SO          |

Video and Article:

