

## SPECIFICATIONS

Distance Measurement		
Range	Reflectorless	1000m
	Prism	5000m
Accuracy	Reflectorless	3+2ppm
	Prism	2+2ppm
	Sheet	3+2ppm
Measurement Time	1.2s in fine 0.2s in tracking	
Atmospheric Correction	Auto input, Auto correction	
Prism Constant	Manual input, Auto correction	
Temperature Correction	Auto input, Auto correction	
Distance Reading	Max:99999999.999m Min:1mm	
Angle Measurement <b>S</b>		
Accuracy	2"	
Method	Absolute, continuous	
Disk Diameter	79mm	
Detection Method	V: Dual, H: Dual	
Angle Reading	Min: 1"	
Telescope		
Image	Erect	
Tube Length	152mm	
Effective Aperture	45mm (EDM 47mm)	
Magnification	30x	
Field Of View	1°30"	
Resolving Power	3"	
Minimum Focus Distance	1.5m	
Reticle Illumination	Not adjustable	
Compensator		
System	Liquid, Dual axis	
Working Range	±6'	
Accuracy	1"	
Plummet		
Laser Plummet (Default)	Accuracy	±1.5mm @1.5m
	Laser Brightness	5 levels adjustable
	Wavelength	635nm
	Laser Class	Class 2
Optical Plummet (Optional)	Laser Power	0.5mW
	Image	Erect
	Magnification	3x
	Focusing Range	0.5m ~
	Field Of View	5"
Keyboard And Display		
Keyboard	Alphanumeric 28 Keys	
Display	Black & White LCD	
Resolution	160*96 dpi	
Position	Face 1, Face 2	
Data Storage & Communication		
Internal Memory	16000 points	
External Memory	SD Card	
Communication Port	RS-232, mini USB	
Battery		
Type	Lithium	
Voltage	7.4V	
Operating Time	8 hours	
Vial		
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
General		
IP Rate	IP54	
Temperature Range	-20°C ~ +50°C	
Dimension	206*200*353mm	
Weight	6.0kg	

## PACKAGE COMPONENTS



### Standard package components

- Total Station CTS-632R10
- Rechargeable Battery LI-30 x2
- Battery Charger & Adapter
- Communication Cable KE-203
- User Manual (E-Copy)
- Tools Kit • Dryer • Reflector Sheet
- Carrying Case • Belt for Case

### Optional Accessories

- Solar Filter • Diagonal Eyepiece DFT-2RT

## OPTIONAL ACCESSORIES



TK21T

TK25T

Single Prism Set



Dia.: 25.4mm

Offset: -17.5/-7.5mm

Mini Pole: 30cm×4, φ 10mm

Mini Prism System TPSmini112A

dealer info



# CTS-632R10

## Reflectorless Total Station

- Absolute Encoding Angle Measurement System, accuracy 2"
- Up to 1000 meters non-prism measurement range
- Density Ball Bearing Axis, eliminating Axis Jam
- 5 lines display screen, clear and visible under sunlight
- Atmosphere & Temperature sensor, auto correction

# What Makes CTS-632R10 a Reliable and Productive Workmate?



## TECHNOLOGIES

 1000m Reflecterless	 Ultra Low- noise Amplifier	 Dual Compensation
 Co-axial Laser Beam	 Noise Phase Analysis	 SD Storage
 Carrier Frequency	 Ultra Fast Measurement	 Laser Plummet
 IP54	 T/P Sensor	 Laser Pointing

## PROGRAMS

 REM	 Resection	 Road Design
 Column Offset	 Plane Offset	 Distance Offset
 Area Cal.	 MLM	 P/L SO



## Advanced Hardware, Top Performance

Cost-Effective choice for your surveying and engineering tasks, its long range EDM, density ball bearing axis system, high accuracy angle measurement module represent the highest level of manufacturing skill of China.

Video:  
500m Non-prism measurement in cloudy weather:  
<https://www.youtube.com/watch?v=D1bLO8n3mXQ>



## Practical Survey Program

Various of surveying programs onboard allow surveyors to complete their tasks directly in the field: angle offset, angle repetition, dual-distance offset, coordinate measurement, REM, MLM, Staking out, area calculation, Road Design, etc.

Video:  
<https://www.youtube.com/watch?v=3nr1SRstLXk>



## Convenient Data Transmission Software

CTS-632R10 supports Mini USB / Serial port cable connection. Special data transmission and editing software can quickly transfer data and save time. You can design roads and export to CTS-632R10 for LAYOUT swiftly. Multiple data formats are supported.

Video:  
<https://www.youtube.com/watch?v=o-R6wtF4p8k>



## Temp. & Pressure, Auto Setting

Temperature and pressure changes make a negative impact on the accuracy of distance measurements. The Smart T-P Sensor automatically monitors the changes and adjusts the distance calculations.