

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		
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
	Laser Power	0.5mW
Optical Plummet (Optional)	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		USB Flash Memory (Up to 256G)
Communication Port		Bluetooth data transfer
Battery		
Type		Lithium
Voltage		7.4V
Operating Time		8 hours
Vial		
Plate Vial		30"/2mm
Circular Vial		8'/2mm
General		
IP Rate		IP55
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 Eye-piece DFT-2RT

OPTIONAL ACCESSORIES



Single Prism Set



Dia.: 25.4mm    Mini Pole: 30cm×4, φ 10mm  
Offset: -17.5/-7.5mm

Mini Prism System TPSmini112A

dealer info

**KOLIDA**  
Professional's Choice

**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
- USB Flash Memory Data Storage, Bluetooth

**KOLIDA**  
Professional's Choice

GUANGDONG KOLIDA INSTRUMENT CO., LTD.

Add: 7/F, South Geo-information Industrial Park, No.39 Si Cheng Road, Tian He IBD, Guangzhou 510663, China  
Tel: +86-20-22139033    Fax: +86-20-22139032  
Email: export@kolidainstrument.com    market@kolidainstrument.com    http://www.kolidainstrument.com

YouTube CTS-632



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

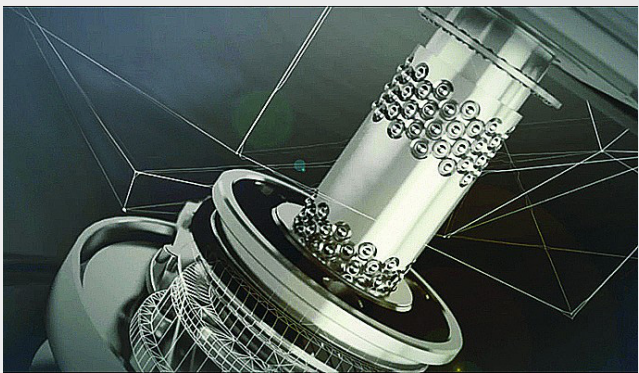


## TECHNOLOGIES

 1000m Reflecterless	 Bluetooth	 Dual Compensation
 Co-axial Laser Beam	 Noise Phase Analysis	 USB Flash Memory
 Carrier Frequency	 Ultra Fast Measurement	 Laser Plummet
 IP55	 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 USB flash Memory Storage and Bluetooth data transfer. 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.