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
Communication Port	BT / 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

ACCESSORIES

TK21T

TK25T

Single Prism Set

Dia.: 25.4mm   Mini Pole: 30cm×4, φ10mm
Offset: -17.5/-7.5mm

Mini Prism System TPSmini112A

Standard package components
- Total Station CTS-632R6
- Rechargeable Battery LI-30 x2
- Battery Charger & Adapter
- Communication Cable KE-203
- Tools Kit   • Dryer   • Reflector Sheet
- Carrying Case   • Operation Manual   • Warranty Card
- QC Pass Certificate   • Belt for Case

Optional Accessories
- Solar Filter   • Diagonal Eyepiece DFT-2RT

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**

YouTube CTS-632

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

TECHNOLOGIES

1000m Reflectorless	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

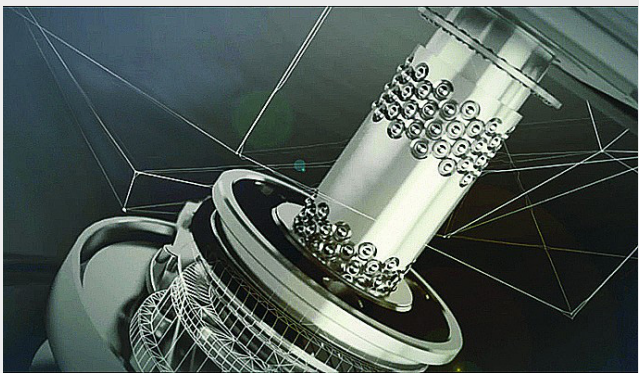|		
REM	Resection	Road Design
Column Offset	Plane Offset	Distance Offset
Area Cal.	MLM	P/L SO

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

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-632R6 for LAYOUT swiftly. Multiple data formats are supported.
Video:
https://www.youtube.com/watch?v=o-R6wtF4p8k

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

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.1