

SPECIFICATIONS

		CTS-661R10
Angle Measurement		
Accuracy ISO 17123-3		1"
Detection Method		Horizontal: Dual Vertical: Dual
Measurement Method		Absolute Encoding
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)		79mm
Minimum Reading		0.1"/ 1" Optional
Distance Measurement		
Max. Range	Reflectorless	1000m
	1 Prism	3.5km/ under good condition 4.0km
	3 Prism	5.0km
	Sheet	1.0km
Accuracy	Reflectorless	$\pm(2+2\text{ppm}\times D)$ mm
	Reflector	$\pm(1+1\text{ppm}\times D)$ mm
Reading		Maximum: 99999999.999m; Minimum: 1mm
Measuring Time		Fine Mode: 1s; Tracking Mode: <0.25s; Repeat: <0.35s
Atmospheric Correction		Auto Correction
Prism Constant		Auto Correction
Telescope		
Image		Erect
Length		152mm
Effective Aperture		45mm, (DTM: 47mm)
Magnification		30 X
Field of View		1° 30'
Minimum Focus		3"
Minimum Focussing Distance		1m
Reticle Illumination		Adjustable
Automatic Compensator		
System		Dual Axis Liquid-electric Sensor Compensation
Working Range		$\pm 6'$
Accuracy		1"
Sensitivity of Vial		
Plate Vial		30" / 2mm
Circular Vial		8' / 2mm
Optical Plummet (optional)		
Image		Erect
Magnification		3 X
Focusing Range		0.3m~∞
Field of View		5°
Laser plummet (default)		5 levels brightness adjustable, auto height
General		
Display		3.7 inches LCD, 320×240 dpi Touch Screen backlight, contrast adjustment
Keyboard		Alphanumeric Keyboard/ 30 keys with backlight
EDM Trigger Key		Quick Measure Key located on side cover
Laser pointer		Easy to find target
Guide light		Indicates correct position fast and easy
Bluetooth		Easier way to transfer data and connect with controller
Communication		
Bluetooth		Bluetooth 4.0
SD card		Supportable
Serial I/F Port		USB flash disk/ RS-232C(6pin)/ USB Mini-B
On-board Battery		
Power Supply		Rechargeable Lithium Battery, 2 units
Voltage		7.4 VDC
Operating Time		Operate with single battery Li-39: 17 hours (Li-45 which runs 20 hours is optional)
Physical		
Dimension		L216×W200×H350 mm
Weight(without battery)		5.2Kg
IP Standard		IP66
Data Storage	Internal Memory	98M, ready for 833,000 data blocks
	External Memory	SD Card 4GB, ready for approx. 34,000,000 data blocks up to 32G USB Flash disk
Working Temperature		-25°C~55°C

PACKAGE COMPONENTS



Standard package components

- Total Station CTS-662R10/661
 - Rechargeable Battery LI-39 x2
 - Battery Charger & Adaptor
 - Communication Cable KE-203
 - User Manual (E-Copy)
 - SD Card
 - Tools Kit
 - Dryer
 - Carrying Case
 - Mini USB Cable
 - Reflector Sheet
 - Belt for Case
- Optional Accessories**
- Solar Filter
 - Diagonal Eyepiece DFT-2RT

OPTIONAL ACCESSORIES



Single Prism Set



Mini Prism System TPSmini112A

dealer info

KOLIDA
Professional's Choice

CTS-661R10 Reflectorless Total Station

New Arrival



- 1" Accuracy for Angle Measurement
- 1000m Reflectorless Range
- Fast and Powerful EDM
- Ultra-clear Touch Screen
- Bluetooth Technology
- Guide Light & Auto Height

KOLIDA
Professional's Choice

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Your Best Work mate

Advanced Design With Superior Technology

KEY FEATURES

1" Accuracy for Angle Measurement
1000m reflectorless measurement
Laser pointer, easy to find target

Guide Light
Faster Stake-out

T-P sensor, automatic correction

Long-Lasting Lithium Battery

Data transfer and storage
Flash disk and SD card, Mini USB.

Bluetooth
BT 4.0, easy connect to data collector, gyroscope etc.

Concentrated ball bearing
Solve axis jam, more stable and reliable.

High resolution touch screen
3.5 inch touch screen, transluence and semireflective design, 320*240, easy to read under sun shine.

EDM Trigger Key
Quick Measure Key locates at the side cover, which avoids any possible torque during the angle measurement. Especially ideal for gloved hands.

Touch point keypad with backlights
Fast reaction and precise.

Active screen back light Technology
Double screen, operation on this side, other side will close backlight to save energy.

SOFTWARE INTERFACE

Turning the complex professional job into graphical operation, intuitively and easily even for beginners.

APPLICATIONS

Construction Measurement
Measure the corner and wall surface by yourself without setting the prism, the efficiency is improved

Dam Measurement
For target within 1000m, prisms are not required. The surveying work is easily finished

Shipbuilding Measurement
Large shipbuilding surveying and positioning

Tunnel Measurement
Be able to observe measuring point without prisms. Point-layout becomes easier

PROGRAMS

AUTO-HEIGHT



CTS-661R10 can automatically measure, read, and set the instrument height by only a simple button press. It greatly reduces errors and accelerates the setup process in job sites. The accuracy is ± 1.5 mm at 1.5 m, operating range is from 0.5 m to 3 m. This feature is a national patented technology of China.