SPECIFICATIONS

Angle Measureme	ent	CTS-661R10				
Accuracy ISO 171		4 11				
		1"				
Detection Method		Horizontal: Dual Vertical: Dual				
Measurement Met		Absolute Encoding				
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)		79mm				
Minimum Reading		0.1"/ 1" Optional				
Distance Measurer	ment					
	Reflectorless	1000m				
	1 Prism	3.5km/ under good condition 4.0km				
Max. Range	3 Prism	5.0km				
	Sheet	1.0km				
	Reflectorless	\pm (2+2ppm×D) mm				
Accuracy	Reflector	$\pm (1 \pm 1)$ mm				
Reading		Maximum: 99999999.999m; Minimum: 1mm				
Measuring Time		Fine Mode: 1s; Tracking Mode: <0.25s; Repeat: <0.35s				
Atmospheric Corre	ction	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 Focussin	-	1m				
Reticle Illuminatior	n	Adjustable				
Automatic Comper	nsator					
System		Dual Axis Liquid-electric Sensor Compensation				
Working Range		±6'				
Accuracy		1"				
Sensitivity of Vial						
Plate Vial		30" / 2mm				
Circular Vial		8' / 2mm				
Optical Plummet (ontional)	0 / 200				
Image	optionaly	Erect				
•		3 X				
Magnification						
Focusing Range		0.3m∼∞				
Field of View		5°				
Laser plummet (de	efault)	5 levels brigheness adjustable, auto height				
General						
Display		3.7 inches LCD, 320 $ imes$ 240 dpi Touch Screen				
Display		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		Rechargeable Lithium Battery, 2 units				
Power Supply						
Voltage		7.4 VDC				
Operating Time		Operate with single battery Li-39: 17 hours (Li-45 which runs 20 hours is optional)				
Physical						
Physical						
Dimension		L216×W200×H350 mm				
Weight(without battery)		5.2Kg				
IP Standard						
Data Storess	Internal Memory	98M, ready for 833,000 data blocks				
Data Storage	External Memory	SD Card 4GB, ready for approx. 34,000,000 data blocks				
		up to 32G USB Flash disk				
Working Temperate	ure	-25 ℃~55 ℃				

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



Offset: -17.5/-7.5mm

Mini Prism System TPSmini112A



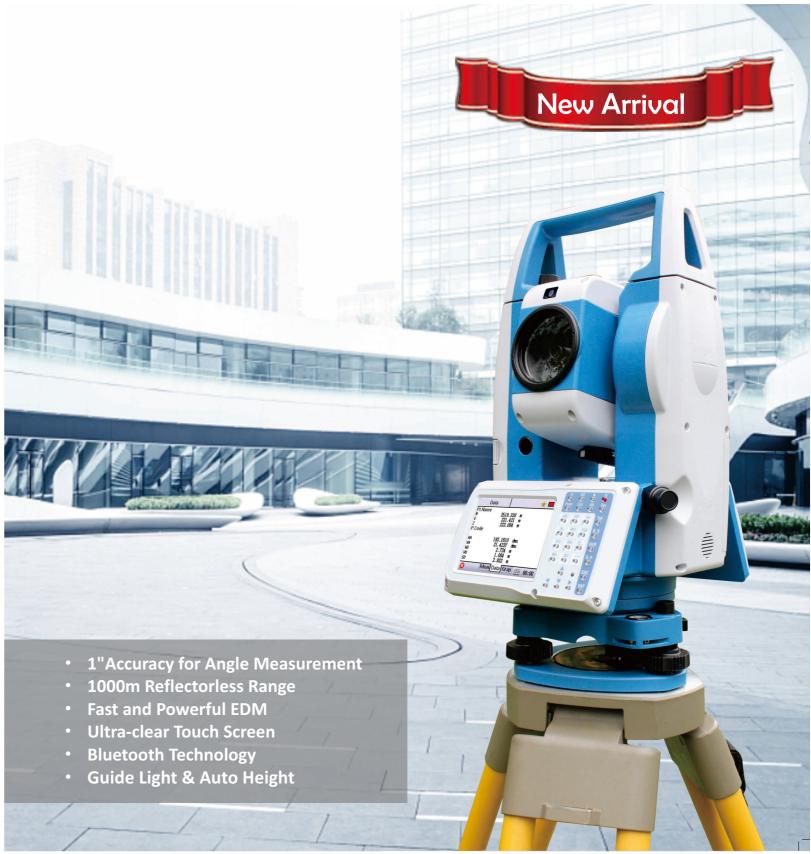
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GUANGDONG KOLIDA INSTRUMENT CO., LTD.

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





CTS-661R10 Reflectorless Total Station

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



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

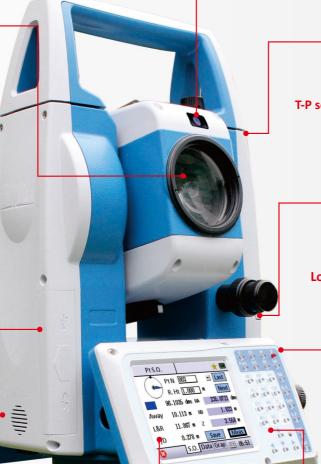


Bluetooth BT 4.0, easy connect to data collector, gyroscope etc.



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



High resolution touch screen

easy to read under sun shine.

3.5 inch touch screen, translucence

and semireflective design, 320*240,



Long-Lasting Lithium Battery



• Guide Light Faster Stake-out

> **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

Job	Meas	1	Angle
Data	Station	2	Distance
COGO	Collect	3	Coordinates
Set	StakeOut		
Adjust	Road		
1			[[[]]] [[]] [[]] [[]] [[]] [[]] [[]] [

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

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Av	way	10.113	п	HD		1.8
L8	&R	11.867	п	Z		3.5
F/	'D	0.278	п	Sa	ve	M
8		\$.0.	Da	ta G	rap	

APPLICATIONS





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

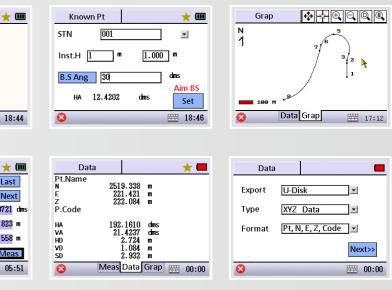
Dam Measurement For target within 1000m, prisms are not required. The surveying work is easily finished

PROGRAMS











Shipbuilding Measurement Large shipbuilding surveying and positioning



Tunnel Measurement Be able to observe measuring point without prisms. Pointlayout becomes easier





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.