

SPECIFICATIONS

	CTS-661	CTS-662R10
Angle Measurement		
Accuracy ISO 17123-3	1"	2"
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
Accuracy	Sheet	1.0km
	Reflectorless	0-300m 3mm+ 2ppm, 300-600m 5mm+2ppm, >600m 10mm+2ppm
Reading	Reflector	$\pm(2 + 2ppm \times D)$ mm
Measuring Time	Maximum: 99999999.999m; Minimum: 1mm	
Atmospheric Correction	Fine Mode: <2s; Tracking Mode: <0.25s; Repeat: <0.35s	
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		
Image	Erect	
Magnification	3 X	
Focusing Range	0.3m ~ ∞	
Field of View	5°	
Laser plummet (optional)	5 levels adjustable	
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 (optional)	Indicates correct position fast and easy	
Bluetooth	Easier way to transfer data and connect with controller	
Communication		
Camera	3.2MP, available on CTS-6621	
SD card	Supportable	
Serial I/F Port	USB flash disk/ RS-232C(5pin)/ USB Mini-B/ SD card/ BLUETOOTH	
On-board Battery		
Power Supply	Rechargeable Lithium Battery	
Voltage	7.4 VDC	
Operating Time	Operating Period with Single Angle and Measurement every 30 seconds 14 hours	
Physical		
Dimension	L216 × W200 × H350 mm	
Weight(without battery)	5.2Kg	
IP Standard	IP65	
Data Storage	Internal Memory	98M, ready for 833,000 data blocks
	External Memory	SD Card 4GB, ready for approx. 34,000,000 data blocks 8G USB Flash disk, ready for approx. 68,000,000 data blocks
Working Temperature	-20°C ~ 50°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-ZRT

OPTIONAL ACCESSORIES



TK21T

TK25T

Single Prism Set



Dia.: 25.4mm

Offset: -17.5/-7.5mm

Mini Pole: 30cm × 4, φ 10mm

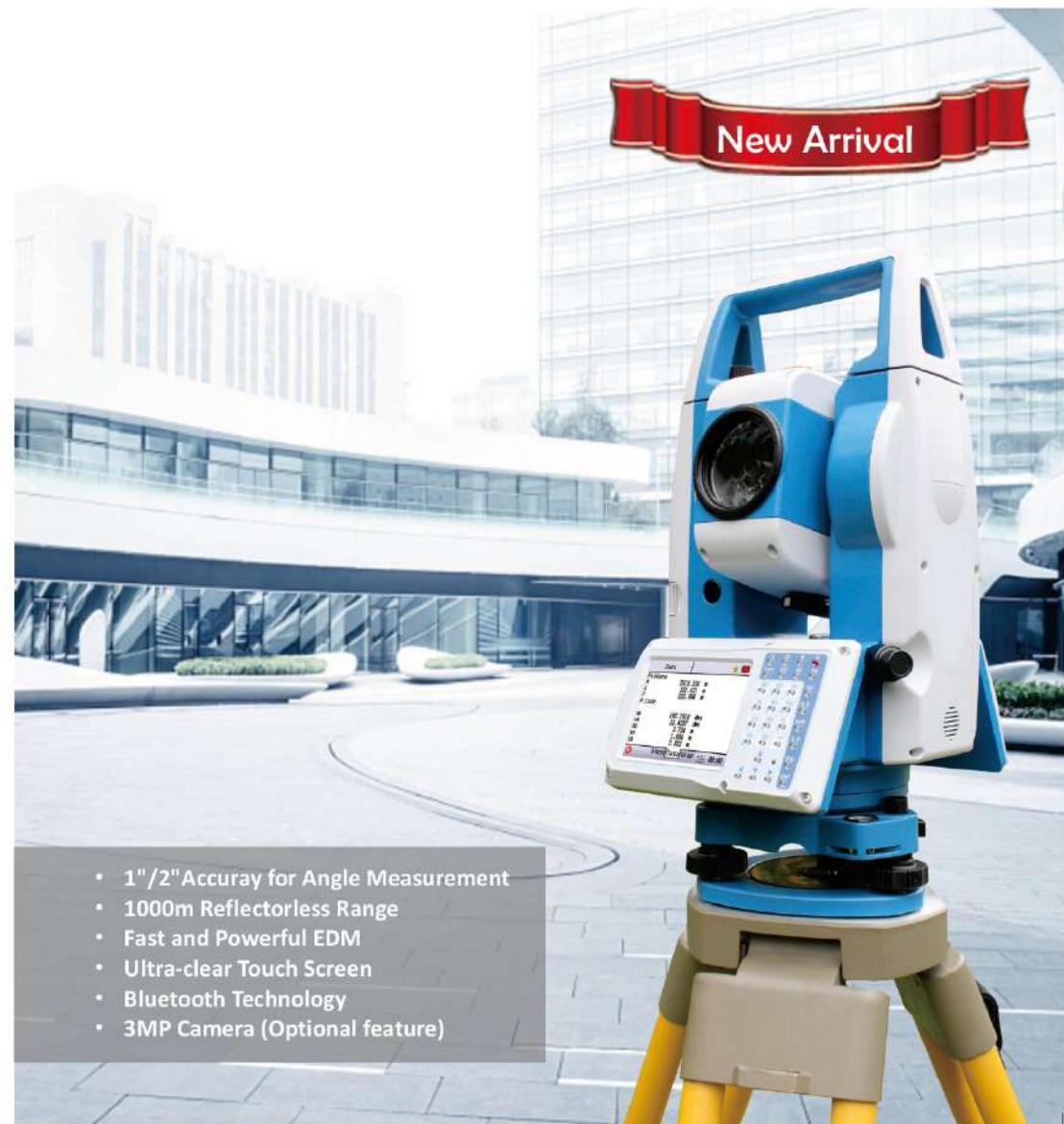
Mini Prism System TP5mini112A

dealer info

CTS-662R10/661

Reflectorless Total Station

New Arrival



- 1"/2" Accuracy for Angle Measurement
- 1000m Reflectorless Range
- Fast and Powerful EDM
- Ultra-clear Touch Screen
- Bluetooth Technology
- 3MP Camera (Optional feature)

Your Best Work mate Advanced Design With Superior Technology

KEY FEATURES



1 1/2" Accuracy for Angle Measurement
1000m reflectorless measurement
Laser pointer, easy to find target



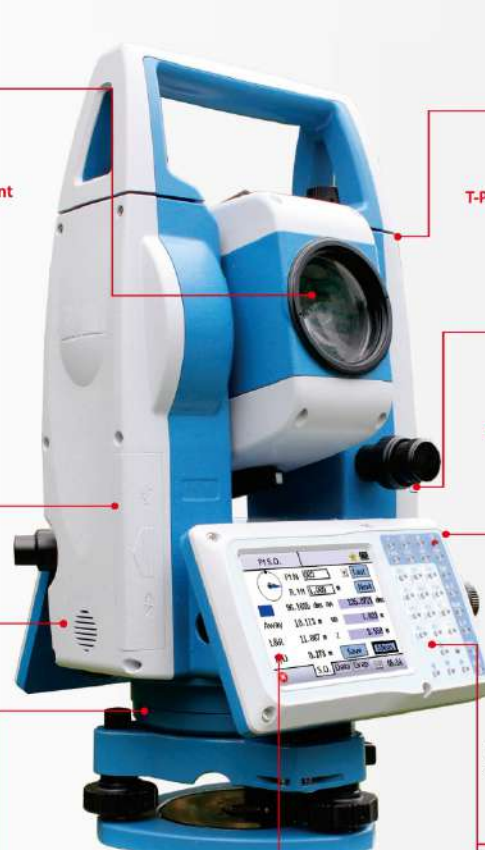
Data transfer and storage
Flash disk and SD card,
Mini USB.



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



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



T-P sensor, automatic correction



Long-Lasting Lithium Battery



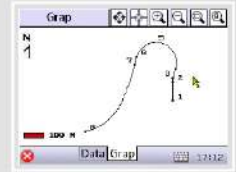
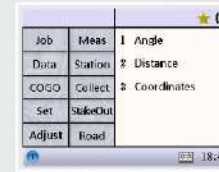
EDM Trigger Key
Quick Measure Key locates at
the side cover, which avoids any
possible torque during the angle
measurement. Especially ideal
for gloved hands.

**Touch point keypad with
backlights**
Fast reaction and precise.

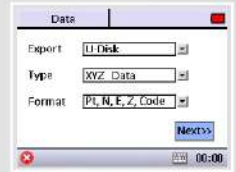
**Active screen back light
Technologic**
Double screen, operation on this
side, other side will close backlight
to save energy.

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

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 500m, 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



IMAGING FUNCTION



Imaging function is available on CTS-6621
3.2 mega pixel camera in front of the EDM.
Capture the color images of the points you
measure at anytime Images can be saved and
post-processed with relevant point information.