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	
	Sheet	1.0km	
Accuracy	Reflectorless	0-300m 3mm+2ppm, 300-600m 5mm+2ppm, >600m 10mm+2ppm	
	Reflector	±(2+2ppm×D) mm	
Reading		Maximum: 99999999.999m; Minimum: 1mm	
Measuring Time		Fine Mode: <2s; 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		±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-662i	
SD card		Supportable	
Serial I/F Port		USB flash disk/ RS-232C(6pin)/ 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 senconds 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℃～50℃	

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

TK21T

TK25T

Single Prism Set

Dia.: 25.4mm
Offset: -17.5/-7.5mm

Mini Pole: 30cm×4, ϕ10mm

Mini Prism System TPSmini112A

dealer info

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

X-METER
Challenging is Amazing

CTS-662R10/661

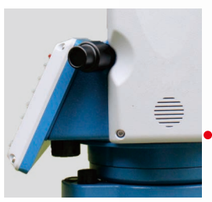
Reflectorless Total Station

Your Best Work mate
Advanced Design With Superior Technology

KEY FEATURES

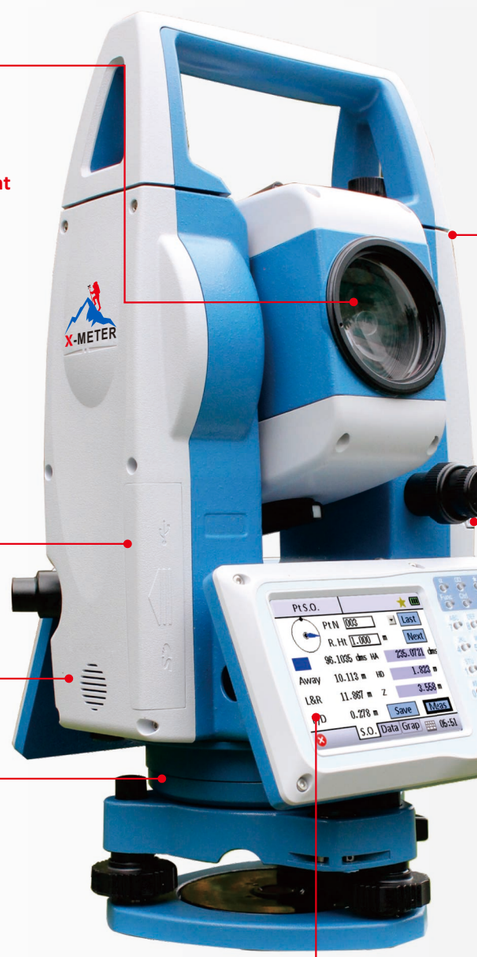
1"/2"Accuray for Angle Measurement
1000m reflectorless measurement
Laser pointer, easy to find target

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



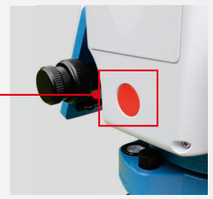
Bluetooth
BT 4.0, easy connect to data collector, gyroscope etc.

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.

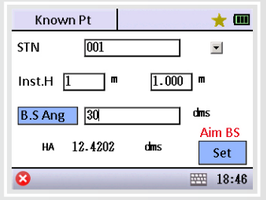
Touch point keypad with backlights
Fast reaction and precise.

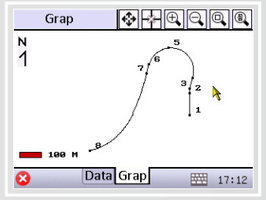
Active screen back light Technologic
Double screen, operation on this side, other side will close backlight to save energy.

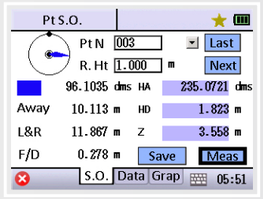
High resolution touch screen
3.5 inch touch screen, translucence and semireflective design, 320*240, easy to read under sun shine.

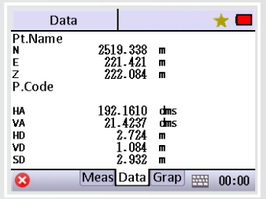
SOFTWARE INTERFACE

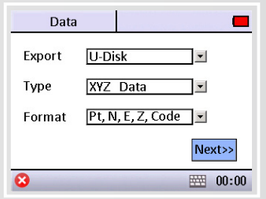
Turning the complex professional job into graphical operation, intuitively and easily even for beginners.











APPLICATIONS

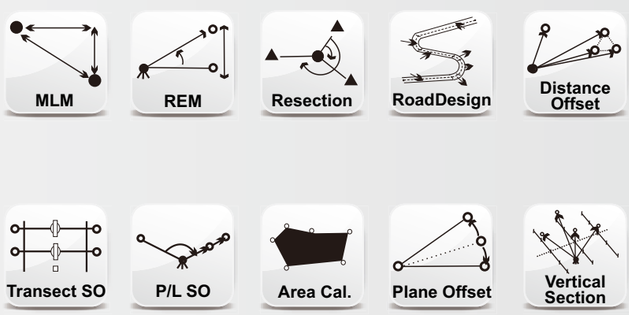
Construction Measurement
Measure the corner and wall surface by yourself without setting the prism, the efficiency is improved

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-662i 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 relevent point information.