

SPECIFICATIONS

Distance Measurement		
Range	Reflectorless	1000m
	Prism	5000m
Accuracy	Reflectorless	2mm+1.5ppm
	Prism	1mm+1ppm
	Sheet	2mm+1ppm
Measurement Time		1s in fine, 0.2s in tracking
Atmospheric Correction		Auto Correction
Prism Constant		Manual Input, Auto Correction
Temperature Correction		Sensor Reading
Distance Reading		Max:99999999.999m Min:1mm
Angle Measurement		
Accuracy		1"
Method		Absolute, Continuous
Disk Diameter		79mm
Detection Method		V: Dual, H: Dual
Angle Reading		Min: 1"
Telescope		
Image		Erect
Tube Length		152mm
Effective Aperture		Observation 45mm (EDM 50mm)
Magnification		30x
Field Of View		1°30"
Resolving Power		3"
Minimum Focus Distance		1.5m
Reticle Illumination		10 Brightness Levels
Operation System		Real Time Operation System (on-board software built-in)
Memory		24,000 Points
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
Keyboard And Display		
Keyboard		Alphanumeric 30 Keys
Display		3.0 inches, 65536 color, LCD Display
Resolution		400 x 240 pixel
Position		Face 1, Face 2
Interface		
Data Interface		USB Flash Disk (up to 128GB), Bluetooth
Battery		
Type		Lithium
Voltage		7.4V
Operating Time		18 hours
Vial		
Plate Vial		30"/2mm
Circular Vial		8'/2mm
General		
IP Rate		IP65
Temperature Range		-20°C ~ +50°C
Dimension		206*200*353mm
Weight		6.0kg

PACKAGE COMPONENTS



Standard package components

- Total Station CTS-631RM
- Rechargeable Battery LI-30 x2
- Battery Charger & Adapter
- Tools Kit
- Dryer
- Carrying Case
- Belt for Case
- User Manual (E-Copy)

Optional Accessories

- Solar Filter
- Diagonal Eyepiece DFT-2RT

OPTIONAL ACCESSORIES



TK21T

TK25T

Single Prism Set



Dia.: 25.4mm

Mini Pole: 30cm×4, φ 10mm

Offset: -17.5/-7.5mm

Mini Prism System TPSmini112A

dealer info



CTS-631RM
Reflectorless Total Station

- Absolute Encoding, 1" Accuracy
- Up to 1,000m Non-prism range
- Colorful touch screen
- USB memory stick and Bluetooth



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Your Best Work mate

Advanced Design With Superior Technology



Advanced Hardware, Top Performance

CTS-631RM set a new standard for high class total station. Its 1000 meter range EDM, density ball bearing axis system, high accuracy angle measurement module represent the highest level of manufacturing skill of China.



Fully Functional Survey Programs

Angle, Distance, Coordinate Measurement and setout. Distance, Plane, Column offset, Missing Line, Remote Elevation, Reference Line, Resection, Point-to-Line measurement, Height Transfer.



COGO (coordinated geometry)

Coordinate calculation, Angle Distance Calculation, Area & Perimeter, Point-to-line inverse calculation, Point Projection.

6 Useful Features that Improve Your Productivity!



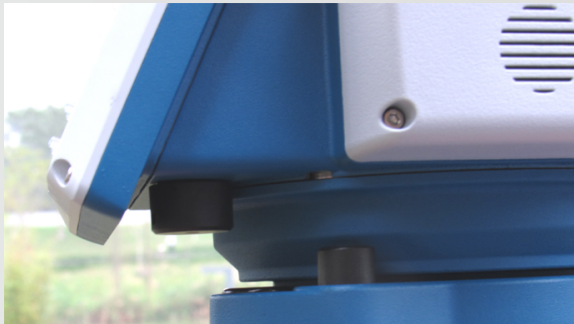
Fast input via touch screen plus keyboard, less key button press, time saved



Trigger key, measure when you see



Smartly edit code library



Temperature-pressure auto read and set



Screen energy saving program, enlarge working time 10%



Support USB Flash Disk up to 128GB, support data format ASCII, CSV, DXF...

PROGRAMS

