

CTS-112R₄

Total Station



Hardware Description

CTS-112R_A

Total Station

The CTS-112R 4 total station is based on proven technologies and designed for users who need the most cost-effective survey solution. It has an angle accuracy of 2" and is equipped with high efficiency EDM that provides long range measurements: 800 m reflectorless and up to 5 000 m using a single prism, with millimeter accuracy.

Better industrial design makes work more efficient. Each replaceable battery provide 8 hours continuous working time, so you do not have to worry about losing power in the field any more. Easy data transfer, supporting an external SD card, with up to 32 GB memory. Furthermore, there are various built-in programs also available to make your work more efficient.



Core Technology



Makes fieldwork easier

Dual face keyboards with buttons illumination to minimize mistakes provide optimum viewing and convenience under any environmental conditions. Star key button [★] immediately brings up necessary functions. Built-in laser plummet is equipped for quick instrument setup in all lighting conditions. Enables cable-free connection like mini-USB, SD as well as serial ports.

Better EDM performance



The CTS-112R $_4$ is one of the fastest total stations in his class, with a distance measurement speed of 0.3 seconds. Reflectorless range is up to 800 m and distance measurement to single prism is $_{5000~m}$



Large memory size

Internal memory can store 30 000 points, however external SD card supports maximum 32 GB memory that can record 245 760 000 points.

2 years warranty



Improved industrial design, and CHC experience in manufacturing of quality solutions provide extended 2 years warranty. Should a device fail because of defects in material or workmanship, all repairs or replacement will be covered under the warranty policy.

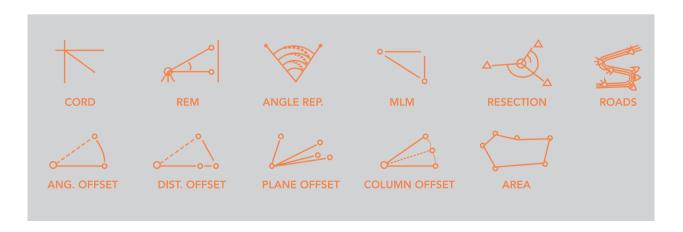


Intuitive onboard software

Reliable onboard software with an intuitive interface is productive and sufficient for the typical survey and construction needs.

Field software

The CTS-112R 4 is a versatile, easy to use, rugged total station with a variety of advanced field applications SW built-in to make your work more efficient.



Specifications

Distance Measurement		
Laser output	Prism	Class 2
	Reflective sheet	Class 2
	Non-prism	Class 3R
Distance measurement	Prism	5000 m
	Reflective sheet	800 m
	Non-prism	800 m
Accuracy	Prism	2 mm+2 ppm
	Reflective sheet	3 mm+2 ppm
	Non-prism	3 mm+2 ppm
Measuring time		Prism fine 0.3 s
		Prism tracking 0.1 s
Laser type		Red visible laser
Carrier		0.650~0.690 μm
EDM type		Coaxial
The smallest display		0.1 mm
Ang	gle Measurem	ent
Diameter	79 mm	
Minimum readout	0.1"/1"/5"/10" optional	
Accuracy	2"	
Detection method	Horizonta	al: Dual Vertical: Dual
	Telescope	
Image	Erect	
Tube length	154 mm	
Objective lens effective	For telescoping: 45 mm	
aperture	For measuring: 50 mm	
Magnification	30×	
Field of view	1°30′	
Minimum focus distance	1.4 m	
Resolving power	3"	
Reticle illumination	4 brightn	ess levels
Au	to Compensa	tor
System	Dual axis photoelectric detection	
Working range	±3′	
Accuracy	1"	
L	.aser Plumme	t
Accuracy	1.5 mm at 1.5 m instrument height	

Display		
Туре	LCD, 6 lines digital screen	
Keyboard	Alphanumeric,28 keys with backlight	
Control panel	Double	
Screen size	2.8 inch	
Interface and Data Recording		
Interface	RS232-C, Mini-USB, SD	
Internal storage	4 MB (ready for 30,000 points)	
External storage	Up to 32 GB (ready for 245,760,000 points)	
Battery		
Battery type	Rechargeable lithium battery	
Battery voltage	DC 7.4 V 3100 mAh	
Operating time	Continuous distance/angle measurement 8 hrs Continuous angle-only measurement 16 hrs	
Charging time	About 3 hrs	
	Environment	
Operating temperature	-20°C to $+50$ °C (-4°F to 122°F)	
Dust and water proof	IP55	
Size and Weight		
Size	160x150x330 mm	
	(6.3x5.9x13.0 in)	
Weight	5.2 kg	

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^{*}Specifications are subject to change without notice.