Specifications

Distance Measurement			
Laser output	Prism	Class 2	
	Reflective sheet	Class 2	
	Non-prism	Class 3R	
Distance measurement	Prism	5000 m	
	Reflective sheet	400 m	
	Non-prism	400 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	le Measurem	ent	
Diameter	79 mm		
Minimum readout	0.1"/1"/5"/10" optional		
Accuracy	2″		
Detection method	Horizontal: 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 brightness levels		
Auto Compensator			
System	Dual axis photoelectric detection		
Working range	±3′		
Accuracy	1 "		
Laser Plummet			
Accuracy	1.5 mm at	1.5 mm at 1.5 m instrument height	
Laser spot size	2.5 mm		

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)	

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CTS-112R₄ Total Station

*Specifications are subject to change without notice.

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Make your work more efficient



Hardware Description



Total Station

The CTS-112R, total station is based on proven technologies and is intended 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: 400 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. Make your work more efficient.

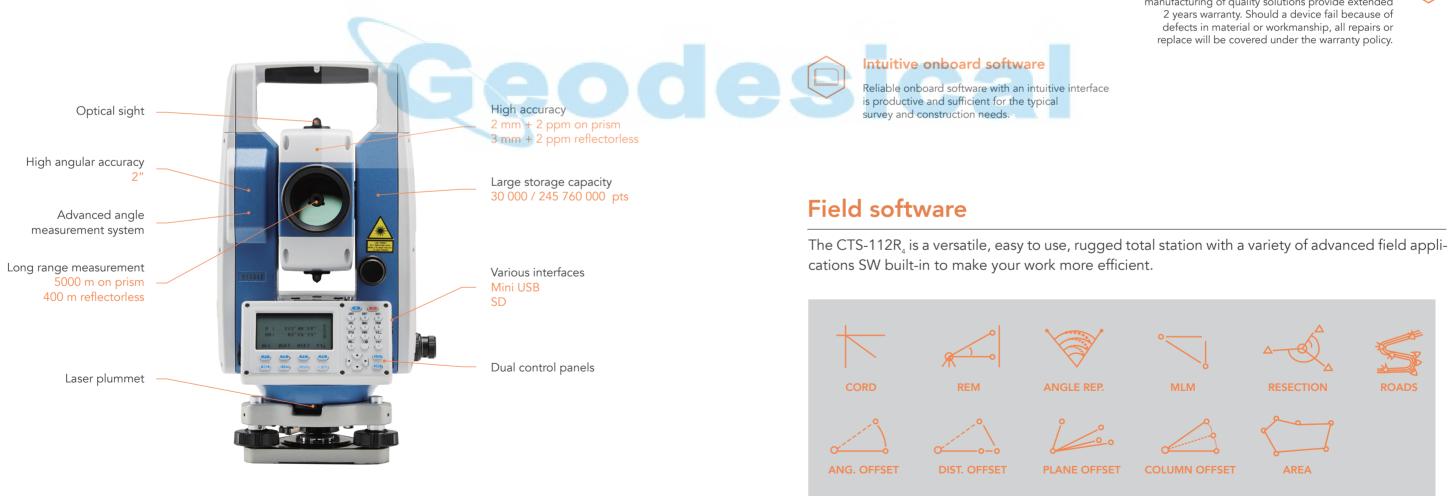
Core Technology

Makes fieldwork easier

Dual face keyboards with buttons illumination to minimize mistakes provides optimum viewing and convenience under any environmental conditions. Starkey 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.

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.





Better EDM performance

The CTS-112R, is one of the fastest total station in his class, with a distance measurement speed of 0.3 seconds. Reflectorless range is up to 400 m and distance measurement to single prism is 5000 m.



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Improved industrial design, and CHC experience in manufacturing of quality solutions provide extended