# cloud

## CTS-112R TOTAL STATION

(TERMS

## • SURVEYING & ENGINEERING

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## COST-EFFECTIVE EASY TO USE TOTAL STATION

The CTS-112R4 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 integrates a high efficiency EDM to provide measurement range of 800 m reflectorless and up to 5 000 m using a single prism, with millimeter accuracy.

Each replaceable battery provides 8 hours continuous working time, so you do not have to worry about losing power in the field anymore.

#### TOTAL STATION USE MADE EASY

### Best-in-class industrial design with dual face keyboards and built-in laser plummet.

Dual face keyboards with buttons illumination to minimize mistakes provide optimum viewing and convenience under any environmental conditions. Built-in laser plummet allows quick instrument setup in all lighting conditions.

#### HIGH EDM PERFORMANCES

### **Up to 800 m reflectorless measurement range.** The CTS-112R4 is one of the fastest total stations in its class, with a distance measurement speed of 0.3 seconds. Reflectorless range is up to 800 m and distance measurement to single prism is up to 5000 m.

#### EXTENDED MEMORY CAPACITY

Store up to 30,000 points in internal memory. Adding external SD card up to 32 GB will boost record capacity to 245,760,000 points.

#### INTUITIVE ONBOARD SOFTWARE

### Bring productivity to any typical survey and construction projects.

The CTS-112R4 is a versatile, easy to use, rugged total station with a variety of advanced field applications software built-in to make your work more efficient.

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## MAKE FIELD SURVEY EASY

### **SPECIFICATIONS**

Prism:Class 2 Reflective sheet: Class 2 Non-prism: Class 3RDistance measurementPrism:5000 m Reflective sheet: 800 m Non-prism: 800 mAccuracyReflective sheet: 3 mm + 2 ppmAccuracyReflective sheet: 3 mm + 2 ppmMeasuring timePrism:1 matracking: 0.1 sLaser typeRed visible laserCarrier0.650~0.690 µmEDM typeCoaxialResolution0.1 mmDiameter79 mmMinimum readout0.1"/1"/5"/10" optionalAccuracy2"Detection methodHorizontal: Dual/ Vertical: DualTube length154 mmObjective lens effectiveFor telescoping: 45 mmAgainfication30Field of view1"30'Minimum focus distance1.4 mResolving power3"Reticle illumination4 brightness levelsActuracy1.4 mResolving power3"Reticle illumination4 brightness levelsActuracy1.4 mLaser PlummetAccuracy1.5 mmat 1.5 m instrument heightLaser spot size2.5 mm	Dista	ance Measurement												
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	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	Rechargeablelithiumbattery												
Battery voltage	DC7.4 V 3100 mAh												
Operating time	Continuous distance/angle: 8 hours Continuous angle-only: 16 hours												
Charging time	About 3 hours												
	Environment												
Operating temperature	-20°C to +50°C (-4°F to 122°F)												
Dust and water proof	IP55												
Si	ze and Weight												
Size	160 x 150 x 330 mm (6.3 x 5.9 x 13.0 in)												
Weight	5.2 kg												

\*All specifications are subject to change without notice.

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