



**Size:** 20cm×19cm×33cm

**Weight:** 5.5 kg

## Features

Lowest total cost of ownership

New ranging circuit system and ultra-low noise broadband amplifier

Noise phase analysis algorithm, stronger resistance

Temperature and atmospheric automatic correction system

Easy-to-use onboard system

LCD 6 lines screen

# TS-C100

## Total Station

### High Precision

The TS-C100 incorporates several innovative structures and technical improvements. Built in new ranging circuit system, the TS-C100 adopts an ultra-low noise broadband amplifier with independent intellectual property rights, greatly improving the accuracy of measurement. The mechanical structure features an integrated CCD and a double-bead shaft for the horizontal and vertical axes, which benefits the angular accuracy up to 2".

### Excellent Capability

Featuring advanced noise phase analysis algorithm, the TS-C100 greatly reduces the interference of various noises on the phase measurement results under bad weather and weak signal conditions. The road measurement program can calculate horizontal and vertical road curves of any line type, and allows discontinuous change in radius of horizontal curve.

### Wide Application

With prism-free measurement technology, the TS-C100 can tackle with all kinds tasks even in harsh environment with high speed and high efficiency. Featured programs such as coordinate measurement, angle measurement, traverse measurement, road design and area calculation, it greatly expands the scope of application to land surveying, roadway surveying, power line inspections, forensics investigation, construction, inspection, mining and other scenes.

### User-friendly Interface

Clear interface supports EXCEL and DAT file import/export; 19-bit code displays makes the point information clear at a glance; The users can add known point files, and invoke the coordinates of the known point for all the projects. TS-C100 can transmit data bidirectionally through bluetooth and U disk, and be controlled through measurement software such as Field Genius in real time.

# TS-C100 Total Station

TS-C Series Total Station Ver.2022.09.02

## Distance Measurement

Range	5000m(Prism) 1000m(Non-Prism)
Accuracy	2mm+2ppm(Prism) 3mm+2ppm(Non-Prism)
Measuring Time	Precise < 0.3s, Tracking <0.1s
Laser	Class 3R laser

## Angular Measurement

Reading System	Absolute Encoding
Circle Diameter	79mm
Minimum Increment	0.1°/1"/5"/10"optional
Accuracy	2"
Detection Method	Horizontal: Dual; Vertical: Dual

## Telescope

Image	Erect
Tube Length	154mm
Effective Aperture	45mm
Magnification	30X
Field of View	1°30'
Resolving Power	3"
Minimum Focus Distance	1.2m

## Standard Packing List

Carry Case	1x
Main Unit	1x
Battery LB-01	2x
Battery Charger	1x
SD Card	1x
USB Cable	1x
Plumb Plummet	1x
Pouch	1x
Wrench	2x
Screwdriver	1x
Adjusting Pin	2x
DessicantBags	1x
Lens Cover	1x
Brush	1x
Reflective Sheet	1x
Warranty Card	1x
QC	1x
Manual	1X(Paper or electronic version)

## Display

Screen Type	LCD 6 lines
Keyboard	Alphanumeric
Digital Display	Maximum : 99999999.9999 Minimum : 0.1mm (4 decimal places optional)

## Battery

Type	Li-battery, 3100mAH
Voltage	7.4V DC
Battery Life	8h

## Physical

Size	20cm×19cm×33cm
Weight	5.5kg

## Laser Plummet

Laser Brightness Level	5 levels adjustable
Circular Vial	8'/2mm

## Communications

USB	USB port
Bluetooth	Y

## System

Tilt Sensor	Dual (working range: ±3', accuracy: 1")
Atmosphere Correction	Manual Input, Auto Correction
Prism Constant	Manual Input, Auto Correction

## Level Vials

Plate Vial	30"/2mm
Circular Vial	8'/2mm

## OPTIONAL ACCESSORIES

Wooden Tripod  
Prism Pole



Specifications subject to change without notice.