

TS1000

TOTAL STATION

Brand New Experience With Surveying Software



PRECISE MEASUREMENT

For distance measurement, the TS1000 total station supports up to 1000m non-prism measurement range with an accuracy of 5mm. With a single prism, the range can be extended to 7500m in 2mm accuracy. For angle measurement, the TS1000 can reach 2" accuracy.

RTK SURVEYING SOFTWARE

Connected via Bluetooth, the TS1000 can realize easy measurement and data storage in RTK surveying software SingularPad. Both GNSS and optical survey tasks can be performed smoothly under the same project and datum. You can share the real-time stakeout position with prism operators through SingularPad for convenient stakeout, providing brand new experience for total station users.

EASE TO USE

The dual-side display and keyboard of TS100 shows high convenience for your operation and viewing. Internal 40,000 points memory, external USB and software storage provide enough capacity for your various tasks. The built-in red laser plummet allows fast instrument setup in any environment.

DISTANCE MEASUREMENT

Range	- Non-prism: 1000 m - Single prism: 7500 m
Accuracy	- Non-prism: 5 mm+3 ppm - Single prism: 2 mm+2 ppm
Minimum reading	- Fine measurement mode: 1 mm (0.005 ft.) - Coarse measurement mode: 10 mm (0.02 ft.) / 1 mm (0.005 ft.) - Tracking measurement mode: 10 mm (0.02 ft.)
Measurement time	- Fine measurement mode: 1.0 s (first time 2 s) - Coarse measurement mode: 0.7 s (first time 2 s) - Tracking measurement mode: 0.3 s (first time 1.5 s)

ANGLE MEASUREMENT

Minimum reading	5"/1" (1 mgon / 0.2 mgon)
Accuracy	2" (0.6 mgon)
Measurement time	0.1 s

TILT COMPENSATION

Type	Dual axis
Compensator range	±3'
Correction unit	1"

LEVEL SENSITIVITY

Circular level sensitivity	8"/2 mm
Plate level sensitivity	30"/2 mm

TELESCOPE

Magnification	30x
Aperture	45 mm
Field of view	1° 30'
Minimum focus	1.5 m
Image	Erect
Reticle illumination	Support

DISPLAY

Display	Dual side, 192 × 128 pixel
Keyboard	Alphanumeric keyboard, 24 keys

PLUMMET

Plummet type	Red laser
Accuracy	1.5 mm (Instrument height: 1.5 m)

DATA MANAGEMENT

Memory	Up to 40000 points storage, support external USB expansion.
Data transmission	- RS232 serial port - Bluetooth - USB

ELECTRICAL

Battery voltage	DC 7.2 – 7.4V
Battery capacity ¹	25000 mAh Ni-MH battery
Operating time (with one battery)	- Distance + angle measurement: 6 hours - Angle measure only: 20 hours

PHYSICAL

Size	190 × 210 × 350 mm
Weight	6.5 kg

ENVIRONMENTAL

Working temperature	-20 °C to + 55 °C
Storage temperature	-40 °C to + 60 °C
Waterproof & dustproof	IP54

1. The default Ni-MH battery can be replaced with optional Lithium battery:
- Capacity: 32000 mAh
 - Distance + angle measurement: 8 hours
 - Angle measure only: 25 hours

All specifications are subject to change without notice.

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