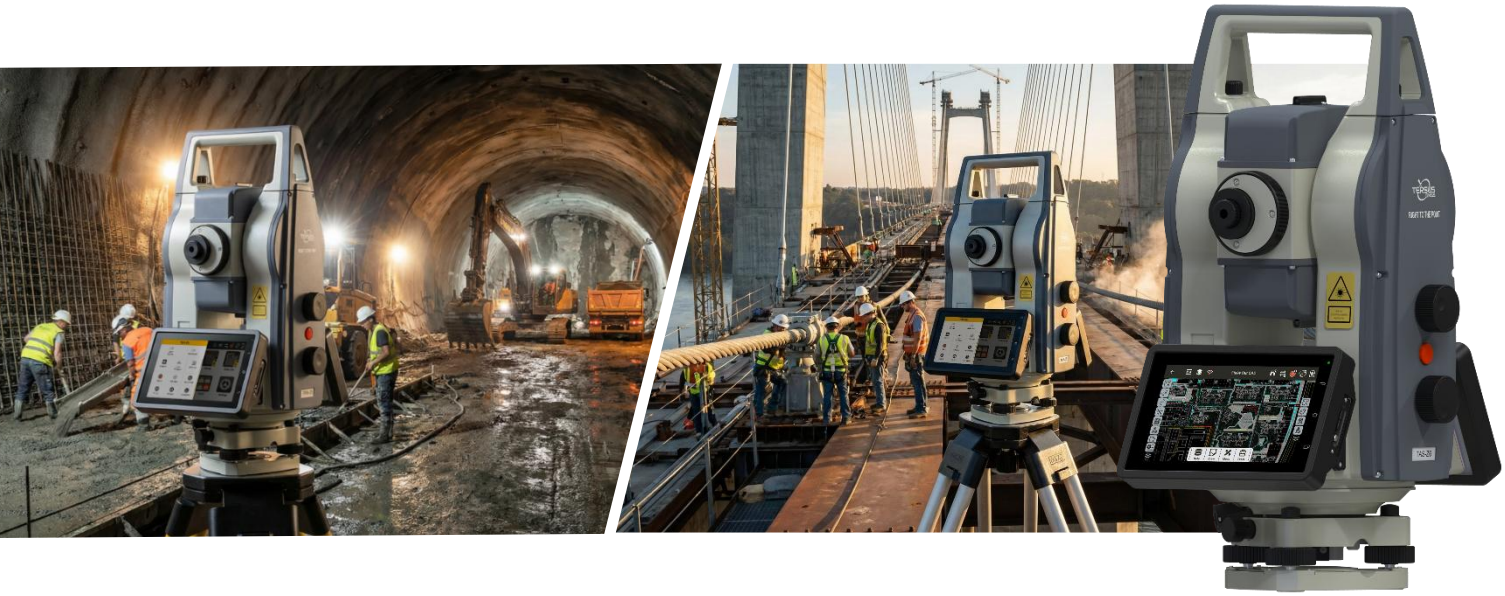
Tersus TAS-Z6

Robotic Total Station



Overview

TAS - Z6 Robotic Total Station, equipped with a powerful Android-based intelligent system, offers a user-friendly experience, enabling quick operation and enhancing work efficiency. Its Power Search and Automatic Target Recognition (ATR) functions are remarkable.

Power Search can find prisms in any direction within 300 meters in 15 seconds, while ATR ensures precise aiming, allowing for accurate measurements within 1200 meters. This enables single-man operation and continuous monitoring. TAS-Z6 is a smart choice for power, performance, and productivity which essentially optimize the time and cost with utmost accuracy.

Key Features

- 1″ Angle Accuracy
- 180°/s Ultra-high Rotation Speed
- Android-based Smart System
- Fast Target Acquisition
- PowerSearch + ATR
- 600 m Long-range Bluetooth
- Long-term Continuous Monitoring
- 12h continuous working

The GNSS Expert
Right to the Point

Tersus GNSS Inc.
A 18F, Tower 1, No. 235, Yubei Road, Pudong New District, Shanghai, China
T +86-21-50803061 E sales@tersus-gnss.com

Tersus TAS-Z6

Robotic Total Station

Distance Measurement

Range	Standard prism mode:4000 m Reflector:1200 m Non-prism(1):1000 m
Accuracy	Standard prism mode:1 mm+1 ppm Reflector:3 mm+2 ppm
Measuring Time	Fine:0.3 s Tracking:0.2 s Continuous:0.3 s

Angle Measurement

Method	Absolute encoding technology
Angle Display(least count)	0.1″
Accuracy	1″
Detection Method	Horizontal & Vertical disc: four-way detection

Power Search(PS) (2)

Range	Standard prism:1.5 to 300 m
Search Time	<15 s (typical)
Search Scope(typical)	20° (vertical) × 360° (horizontal)
Modify Search Scope	Support

Automatic Target Recognition (ATR) (3)

Range	1.5 to 1200 m
Tracking Mode	600 m
Pointing Repeatability	0. 5″
Search Time	<5 s
Minimum Angle For Multi-target	5′
Field Of View	1.5° (horizontal) × 1.2° (vertical)
Modify Search Scope	Support

Telescope

Imaging	Erect
Effective Aperture Of Objective Lens	45 mm(EDM: 47 mm)
Magnification	30 X
Field Of View	1°30′
Minimum Focus Distance	1.5 m

Communication Interfaces

Data Interface	Cellular、USB、WIFI、Bluetooth、Micro USB、RS232
Operating System	Android 9.0

System Parameters

Compensator	Dual-axis liquid photoelectric electronic compensator, range: ± 6′, accuracy: 1″, resolution: 0.1″
Meteorological Correction	Automatic correction of input temperature and pressure
Electronic Bubble	6′/2 mm
Guiding Light	Support
RAM	3 GB
ROM	32 GB

Display

Screen Type	Digitally displayed, LCD, Graphic
Screen Size	6.0 inches
Display Range	Max: 99999999.9999 m, Min: 0.1 mm

Camera

Wide-angle Camera Sensor	5 MP CMOS
Lens	Fixed Focus
Field Of View	Horizontal: ± 7.05°, Vertical: ± 5.3°

Power Supply

Lithium Battery	DC 14.4 V 6400 mAh x 2
Continuous Working Hours	6 h x 2
External Input Voltage	12 V to 30 V

Environmental Specifications

Operating Temperature	- 20℃ to + 50℃
Storage Temperature	- 40℃ to + 70℃
Waterproof/Dustproof	IP66

Physical

Weight	9.5 kg
Dimension	430 x 255 x 235 mm

Note:
(1) Distance measurement performed without a reflector, using direct laser reflection from the target surface.
(2) High-speed prism search function that automatically scans a wide area to rapidly detect and lock onto the target prism.
(3) Automatic detection, recognition, and tracking of the target prism for continuous measurement and robotic operation.

Website: www.tersus-gnss.com
Sales Inquiry: sales@tersus-gnss.com
Technical Support: support@tersus-gnss.com
Information is subject to change without notice.

The GNSS Expert
Right to the Point

Tersus GNSS Inc.
A 18F, Tower 1, No. 235, Yubei Road, Pudong New District, Shanghai, China
T +86-21-50803061 E sales@tersus-gnss.com