EET

Tersus GNSS TAS-Z1 Total Station

Overview

TAS-Z1 adopts a new ranging system, with a longer measurement range and faster speed. Laser pointing technology on the same vertical axis provides more accurate alignment. Full number+letter keyboard for faster input. The latest circuit design reduces battery power consumption. A brand new ranging circuit system adopts an ultra-low noise broadband amplifier with independent intellectual property rights, greatly improving measurement accuracy. Dual-face keyboards with buttons illumination to minimize mistakes provide optimum viewing and convenience under any environmental conditions.



Key Features

- ✓ The noise phase analysis method is used to greatly reduce the interference of various noises on the phase measurement results under bad weather and small-signal conditions
- ✓ 150MHz modulation frequency, shorter precision measurement ruler, and higher accuracy at the same signal-to-noise ratio and phase discrimination resolution
- ✓ The new optical path design fully isolates the transmitting and receiving optical signals, ensuring high accuracy
- Support EXCEL table data and DAT data import and export;
- ✓ It can display 19-bit code, and the road stakeout point information is clear at a glance
- Add known point files, all projects can call known point coordinates
- A brand new road measurement program that can calculate horizontal and vertical curves of any type of road, allowing for discontinuous changes in the radius of horizontal curves, including non-complete transition curves with any large deviation angle, straight line elements with straight turning points, and any broken chain piles

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Technical Specifications

Performance

ement: Single prism: 5000m Reflective sheet (60mm × 60mm): 1000m Non-prism ⁽¹⁾ : 1000m Single prism: 2mm+2ppm flective sheet (60mm × 60mm): 2mm+2ppm Non-prism: 3mm+2ppm Prism fine: 0.3s Prism tracking: 0.1s Non-prism: 0.3~3s ent: te encoding angle measurement technology 79mm ng: 0.1"/1"/5"/10" optional 2" od: izontal & Vertical disc: diametrically aligned
Reflective sheet (60mm × 60mm): 1000m Non-prism ⁽¹⁾ : 1000m Single prism: 2mm+2ppm flective sheet (60mm × 60mm): 2mm+2ppm Non-prism: 3mm+2ppm Prism fine: 0.3s Prism fine: 0.3s Prism tracking: 0.1s Non-prism: 0.3~3s ent: te encoding angle measurement technology 79mm ng: 0.1"/1"/5"/10" optional 2"
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79mm ng: 0.1"/1"/5"/10" optional 2"
ng: 0.1"/1"/5"/10" optional 2"
2" 2"
od:
Erect
gth: 154mm
re Of Objective Lens: 45mm
30X
1°30′
3"
Distance: 1.2m
arameters:
liquid photoelectric electronic compensator compensation range: ±4 resolution: 1'
Correction: prrection of input temperature and pressure
orrection: Automatic correction of input parameters

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Level:	
- Pipe Level:	30"/2mm
- Circular Level:	8'/2mm
Laser Plummet:	
- Brightness Level:	5-stage regulation
- Accuracy:	±1.5mm
EDM System:	Laser Class 3R Wave Length: 665nm - 695nm

System & Data

Operating System:	DOS
Storage:	Built-in 12MB (ready for 100,000 points)
Data Input:	CSV
Data Output:	DAT, CSV, DXF File
Data Transmission:	USB Bluetooth (optional)
Dist.Unit:	Meter, Feet, Feet-inch
Battery	
Rechargeable Lithiu	m Battery: DC 7.4V 3100mAh x2

Continuous Working Hours: Physical

Display:	LCD, 6 lines digital screen
Keyboard:	Alphanumeric, 24 keys with backlight
Control panel:	Double
Reading:	Max: 99999999999999 Min: 0.1mm
Dimension:	200x190x330mm
Weight:	5.5kg
Operating Temperatur	re: -20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
Dust- & Waterproof:	IP55
N.L. J	

Note:

(1) Kodak White, 90% reflectivity

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