SOUTH
Target your success

T1 Series

Android Total Station

- New! Android 11.0 Operating System
- Reliable EDM - 1000m Non-Prism Range
- High Precision - 2”, 2+2ppm
- User Friendly with EDM Trigger Key
- 5.5 Inches Color Touchscreen
- Fast, Simple and Flexible Data Transfer
- Intuitive Onboard Software - Survey Star/ Survstar
- optional VR software onboard

Version: T1 2.0

Android Total Station

T1

With the proven dual-laser technology, T1 features a powerful and reliable EDM module designed for extremely long-range, fast speed and stable measurement, even under the tough conditions.

All these combined in the new-designed colorful touch screen with fast, simple and flexible data transfer, which makes you more productive than ever before.

Reliable and Outstanding EDM

- 1000m/1500m/2000m Non-prism Range Optional.
- 5000m Prism Range.
- Improved the Algorithm by Dual-Laser EDM.

Guaranteed High Precision

- 2” Angle Accuracy.
- 2+2ppm Distance Accuracy.
- Extremely Fast (0.3s) When Getting the Target.

EDM Trigger Key

- Achieve the Target by Only One Simple Button Press.
- Not Necessary to Taking Your Eyes Off the Telescope.

New Designed Control Panel

- 5.5 Inch Color Touchscreen for Higher Readability.
- User-Defined Numeric and Functional Keys.
- Unique Brightness Sensor with Virtual Button, Which Provides a Smartphone-like Experience.

Fast, Simple and Flexible Data Transfer

- Support USB-Type C, TF Card, SIM Card Slot
- Flexible Data Transfer with Bluetooth and Wi-Fi Technology.

Reliable and Outstanding EDM - 1000m Non-Prism

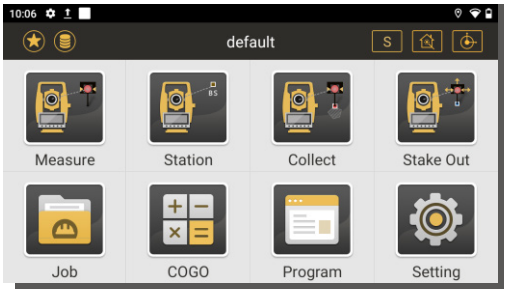
Guaranteed High Precision - 2”, 2+2ppm

User Friendly - EDM Trigger Key

Smartphone-like Experience - Brightness Sensor with 5.5 Inch Touchscreen

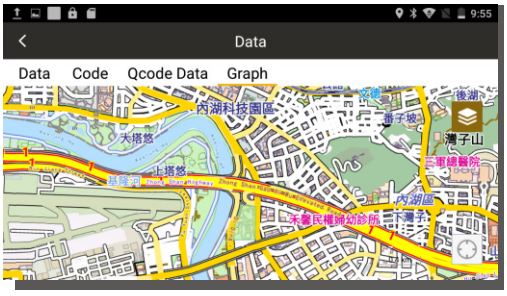
Fast, Simple and Flexible Data Transfer

Digitizing Your Work by **Survey Star/Survstar**



Iconic User Interface

The Survey Star onboard program features an iconic display of the survey elements, like electronic bubble, e-compass, star key and iconic toolbar.
It provides a better understanding for station setup, data collect, stake out in daily tasks.



Map-Driven Workflow

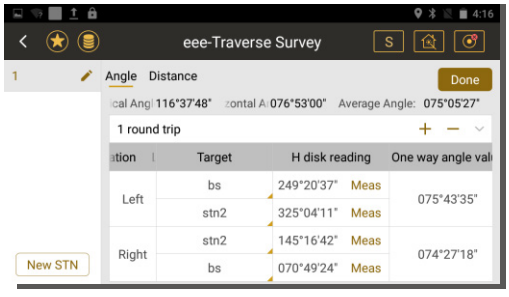
Map is an interactive display feature embedded in Survey Star. It offers a graphical display of the survey elements with base map, which can be downloaded by network, or imported by manual.
It provides a better understanding for data collect, stake out in daily tasks.

Powerful Onboard Program

Including Free Station, COGO, CAD Stake Out, Arc Stake Out, Reference Line, Traverse, Roads, etc.

CAD Stake Out

With CAD Stake Out, T1 helps to handle the data and stake out freely in DWG or DXF files. The only thing you need to do is import the CAD files to your T1 total station.

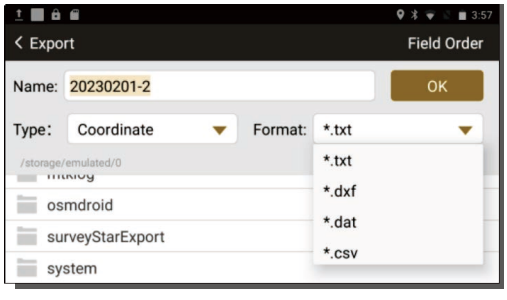


Traverse

When you've got a very difficult site with a lot of obstructions like trees, that obscures our visibility; Or when you can't measure or place the points you need, traverse on T1 total station helps to get a few more control points to work further than the first orientation.

Road

Freely design, calculate and stakeout the road with T1 total station. Road can be visible and readable with graphic display.



Flexible Data Manage

You can send or receive your data to your controller or PC more flexible than ever, by multiple data format, e.g. *.txt, *.dxf, *.dat, *.csv, *xls.

When you've got a T1 total station, you will have infinite possibilities.

SPECIFICATIONS

Distance Measurement (Standard Prism Mode)	Range *1	5000m
	Accuracy	±(2+2ppmxD)mm
	Prism Mode	1s (standard mode); 0.3s (fast standard mode); 0.1s (tracking mode)
Distance Measurement (Reflectorless)	Range *2	1000/1500/2000m Optional With reflector sheet 5 cm x 5 cm: at least 1000 m
	Accuracy	KGC (90%): Good = 900m, Normal =600m, Difficult = 350m KGC (18%): Good = 500m, Normal = 400m, Difficult = 335m (Accuracy standard measurement mode)
	Measure Interval	Reflectorless mode: 1.0s (standard mode); 0.5s (fast standard mode); 0.3s (tracking mode)
Angle Measurement	Accuracy	2”
	Measure Method (HZ/V)	Absolute Continuous, Diametrical
	Diameter of Encoder Disk	79mm
	Display Resolution	0.1”
	Horizontal/Vertical angle	Liquid, Dual Axis Compensation
	Compensator Setting Accuracy	1”
	Compensator Range	±4'
	Reading System	Absolute Encoder
Telescope	Image	Erect
	Tube Length	154mm
	Effective Aperture	45mm (EDM:50mm)
	Magnification	30x
	Resolving Power	3”
	Field of View	1°30"
	Focusing Range	1.2m
	Reticle	Illuminated, 4 Brightness Level
	Laser Pointer	Coaxial Red Light
Vial	Plate Vial	30"/2mm
	Sensitivity of circular level vial on tribrach	8'/2mm
Laser Plummet (Default)	Type	Laser Point, 4 Brightness Level
	Accuracy	±1.5mm at 1.5M Instrument Height
	Wavelength	630-6
	Laser Class	Class 2 /IEC60825-1
	Laser Power	<0.4mW
Optical Plummet (Optional)	Image	Erect
	Magnification	3x
	Focusing Range	0.5m~∞
	Field of View	5°
System Config	Operating System	Android 11.0
	Processor	MT6762
	Internal Memory	RAM: 4GB; ROM: 64GB
	Processor	Dual Core 800 MHz
Communication	Interfaces	- Mic o SIM
		- orts: 1xSerial, 1xUSB TypeC (OTG)
		- TF Ca d
	Network	3G 2100/900 CDMA BC0 TDSCDMA A/F
		4G LTE band1/3/7/38/39/40/41
	Bluetooth	Bluetooth 4.0
	WLAN	Dual-Band Single Stream 802.11 a/b/g/n RF for Data Link
	Microphone / Speaker	Available
Display	Face 1 and2	5.5 Inch, LCD Back-lit (720*1280)
Battery	Type	Hot Swappable Lithium-ion battery (x2), 7.4V
	Operating Time	Distance/angle measurement every 30 s: 8-12 Hours
		Continuous distance/angle measurement: at least 7 hours
		Charging Time, full charge both batteries: approx. 6 hours
Dimension	Size	350mm*170mm*217mm
	Weight	5.7kgs
Environmetal	Operating Temperature Range	-20 °C to +50 °C
	Storage Temperature Range	-30 °C to +70 °C
	Atmospheric Correction	Temperature Range: at least -40 °C to +60 °C
		Barometric Pressure: at least 400 mmHg to 999 mmHg or 533 hPa to 1,332 hPa
	Protection	IP66
Certification	FCC certification, CE Mark approval	
	POST-PROCESSING SOFT PERPETUAL LICENSE - SAME BRAND AS THE TOTAL STATION	
	Capable of performing GNSS post-processing, network adjustment and traverse adjustments, site calibrations	
	Has comprehensive Coordinate System Manager	
	Can create dynamic labels and tables	

*1: Good conditions (good visibility approx.40km, overcast, twilight) *2: White objects with high reflectivity (KGC 90%)

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SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.
Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China
http://www.southinstrument.com