SPECIFICATIONS

	N6s 2"	
Distance Measurement	510	
Range	R10	R15
Reflector	5000m*1	4500
Reflectorless*2	1000m	1500m
Accuracy	(
Reflector	±(1.5+2ppm x D)	
Reflectorless / Sheet	±(2+2ppm x D)	mm
Measuring Interval		
With Reflector	Fine < 0.3s, Trackir	ng <0.1s
Without Reflector	0.3s-3s* ³	
Others		
EDM Type	Coaxial	
Minimum Reading	0.1mm	
Unit	Meter/ US.Feet/ Int.Fee	et/ Feet-inch
Angle Measurement		
Accuracy	2″	
Reading System	Absolute Enco	ding
Circle Diameter	79mm	
Vinimum Increment	1"/5"	
Detection Method	Horizontal: Dual, Ver	tical: Dual
Felescope		ticali Duai
mage	Erect	
Tube Length	154mm	
Effective Aperture	45mm (EDM:50	MM)
	4511111 (EDIVI.50 30x	11111)
Magnification		
ield of View	1°30′	
Ainimum Focus Distance	1.2m	
Resolving Power	3"	
Tilt Sensor		
System	Dual Axis Liquid-E	Electric
Working Range	±6′	
Accuracy	1″	
Communications		
Communication Ports	USB Port	
Data Interface	USB Stick, Blueto	ooth*⁵
ffective Range of Bluetooth*⁵	10m	
Plummet		
Laser Plummet	±1.5mm at 1.	5m
Optical Plummet (Optional)	Erect Image	e
Magnification	3 x	
Focusing Range	0.5m~∞	
Field of View	5°	
Power		
Гуре	Rechargeable Lithiu	m battery
/oltage	7.4V DC, 3100r	
Operating Time	18 Hours*4	
	10110015	
evel Vials	20"/2	
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
Others	10.00	
Dust and Water Protection	IP 66	
Display	Dual Side, LCD 6	
Keyboard	Alphanumeric 24	
Operating Temperature	-20° ~ +60°	
Atmosphere Correction	Manual Input, Auto (
Earth Curvature Correction	Manual Input, Auto (
Prism Constant	Manual Input, Auto (
Dimension	190mm x 195mm x	335mm

STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery LB-01	2x
Tools pouch	1x
Plummet	1x
Manual	1x
Charger LC-10	1x
Reflective sheet	1x
Carry case	1x
Belt	2x

*1. Good Conditions: good visibility about 20km, overcast, no scintillation. *2. Under Kodak Gray (90%). Measuring distance may vary depending on targets and the conditions.

*3. Measuring time may vary depending on measure distance and conditions. For the initial measurement, it may take a longer time.

*4. Battery life specification at 25°. It might be shorter in low temperature or if the battery is old.

*5.Bluetooth is optional hardware module for some countries, not permanent.

OPTIONAL ACCESSORIES



ATS-2 Wooden Tripod NLS-15 Prism Pole TK21T Prism Set

SOUTH Target your success



- Cable-Free Connection by Wireless Bluetooth or USB Stick
- Bigger internal memory, Save 100,000 points
- Longer operation Time up to 18 hours per battery

Note: all information above is subject to change without any prior notice.



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China http://www.southinstrument.com

N6s Series Best-Selling Total Station

Version: N6s 1.2 27.03.2025

What is new for N6s

Outstanding Performance and Versatile Functions



New Battery Housing •Easy to lock and release •One hand operation



Trigger Key •Faster operation •Trigger in all measurement surface



Easy Viewing Display
6-line with backlight on both faces.
Easy-to-use 24-key pads with alphabet entry.



Relocated Tangent Screw Lock and fine adjustment tangent screw



USB Flash Disk

USB disk for data import & export, more convenient and keep it safe



New Mainboard

Processor upgrade to M7. More powerful process ability
Lower consumption. Longer operation time up to 10 hrs by 1 battery

96000 data

Bigger Memory Up to save 100,000 data blocks







USB Flash Memory



Dual Axis

Co-axial Laser Beam

150H**MZ**

Bluetooth

∦





Laser Plummet

Laser Pointing

IP66

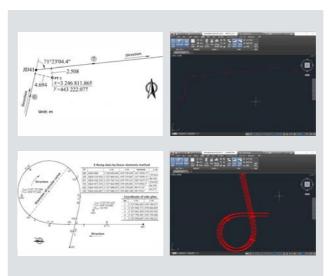
New Hot Key Functions and BT Data Transfer

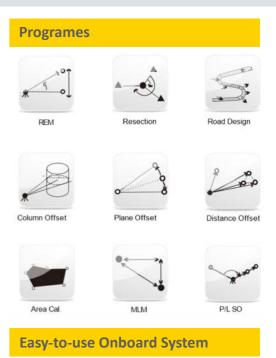
12 number key, 12 short path directly enter the application, less operation steps and higher efficiency.

Cable free data transfer work with transfer software, one key export to USB stick, generate TXT, CSV, SDR

Optimized Road Program

The optimized road program offers a smart solution for road designing, editing and laying out. The new road program will calculate the horizontal and vertical curve in arbitrary geometric curved algorithm.





New tool-bar design on the side of screen, which helps you check the status of your N6s Total Station in real-time.

Choose N6s to meet your topographic needs as a superior mates. It offers a clear-to-view onboard system by it's easy-to-use but powerful programs.

Such as:

Offset: angle, distance, column offset Set-Out Line: to calculate the coordinate of occupied point based on a known point and line

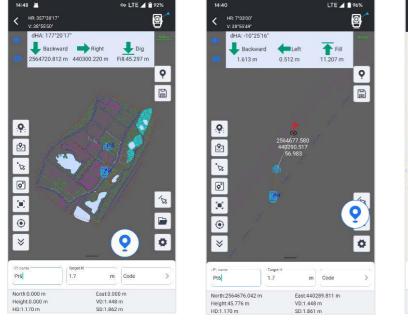
Work on Data Collector

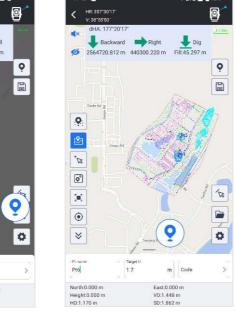
After added the Bluetooth module on N6s, you will have more possibilities to extend the applications on Total Station. With open source commands, you are easy to establish the communications between the N6s and other software you wish to use.

Model and Communication	iii 🕮 🥹	+ - HA 35°26'10" ZA 53°52'43"	0 💥
Make South + Model M	rs 🔄	Page SD 2.336m	
Status: Not Connected		Viewing Instrument	HT:1.300m
Port Bluetooth		0.742m	HT:1.300e
Device \$130343		1 E14m	8
Bluetooth Device List		1.514m	Store Poin
		0.008 m	C Store Poe
		Point 3, Desc None	- 1
Connect Radio Settings	Cose	 Image: Second sec	× ~
Connect Sections	€ • • ÷	5 0 Q Q Q Q	
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Connect Surrough		Heasure Mode: Sideshot (Auto) + LUSPH /CL	С С С С С С С С С С
Conect Sump MA 35°26°10° MA 55°52°43° SO 2.337 42 2.337 42 2.337 42 2.337 42 2.337 42 2.337 42 4.37	€ € ⊕ ≚ A H1:130m Sideshot	Heasure Mode: Sideshot (Auto) + LUSPH /CL	▲ ♣ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔

Total Station Module of SurvStar App: Four Main Features to Give You More Power & Freedom

CAD Stakeout: Increasing Productivity & Decreasing Error

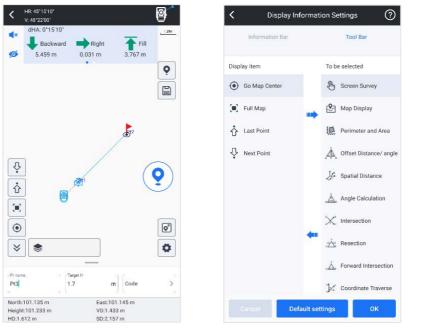




CAD Stakeout allows you to import CAD basemap and stakeout it, without input point coordinates one by one.

When you need, you can connect to your local online map and overlap it to CAD basemap, to increase the precision of your job.

Point Survey & Stakeout: More Ease and Convenience



With graphic display, now it is easy to you to observe the relation between occupied point and target points. It will help you to make less mistakes when measuring many points.

The stakeout program screen displays information more completely, indicates target points more intuitively, your workflow will be smoother than before.

Measure & Draw: Save Time in Both Field work and Indoor Work

Point Export

?

3 >

0.500

0.100

20240426b.data

AutoCAD Format(*.dxf)





User is allowed to draw line, polygon, circle...up to 11 kinds of graphic, while measuring target points. No need to manually draw draft map anymore.

User is allowed to manage different objectives as different layers. The draft map can be saved and output in CAD format, and to be used in indoor works.

8 2 لمعر Point Survey Point Stakeout Line Stakeou A CAD stakeout Data File Name:110.JOB ersion Number:2023051 nstrument No:K169162 5 points transferred in tota TXT file transfer complete CSV file transfer o XLS file transfer comple DXF file transfer complete End of data tra File Type CSV File(*.csv) XLS File(*,xls) TXT File(*.txt) DXF File(*.dxf) Share transfer fil

Download & Share

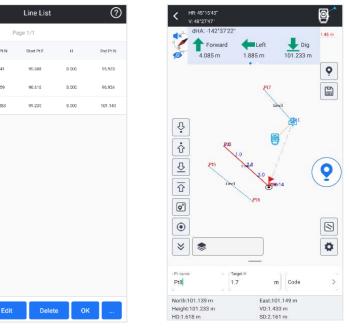
(.csv, .dxf, .txt, .xls)



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Other Modules of SurvStar App: GNSS, Marine Survey, 3D Laser Scanner...

Line Stakeout: Smarter than Traditional Way



User is allowed to manually choose points from library, line will be formed by program automatically. Then user input interval distance, setout points will be calculated out and displayed on screen.

This function is suitable for road or other objective that is containing lines.

HR: 4°46'16 V: 42°09'57' Map Select 0 0 Ð 1 0 ۲ \$ ⊻ Pt4 m Code East:440258.154 m lorth:2564865.713 n • Height:1.243 m VD-1 443 m HD:1.307 m SD:1.947 m

Other Features: More Innovation, No Limitation

Set Occupied Point from CAD basemap or Graphic Map