SPECIFICATIONS

	N6s 2"	
Distance Measurement		
Range	R10	R15
Reflector	5000m*¹	
Reflectorless*²	1000m	1500m
Accuracy		
Reflector	±(1.5+2ppm x D) 1.5mm	
Reflectorless / Sheet	±(2+2ppm x D)mm	
Measuring Interval		
With Reflector	Fine < 0.3s, Tracking <0.1s	
Without Reflector	0.3s-3s*³	
Others		
EDM Type	Coaxial	
Minimum Reading	0.1mm	
Unit	Meter/ US.Feet/ Int.Feet/ Feet-inch	
Angle Measurement		
Accuracy	2"	
Reading System	Absolute Encoding	
Circle Diameter	79mm	
Minimum Increment	1"/5"	
Detection Method	Horizontal: Dual, Vertical: Dual	
Telescope		
Image	Erect	
Tube Length	154mm	
Effective Aperture	45mm (EDM:50MM)	
Magnification	30x	
Field of View	1°30'	
Minimum Focus Distance	1.2m	
Resolving Power	3"	
Tilt Sensor		
System	Dual Axis Liquid-Electric	
Working Range	±6'	
Accuracy	1"	
Communications		
Communication Ports	USB Port	
Data Interface	USB Stick, Bluetooth*⁵	
Effective Range of Bluetooth*⁵	10m	
Plummet		
Laser Plummet	±1.5mm at 1.5m	
Optical Plummet (Optional)	Erect Image	
Magnification	3 x	
Focusing Range	0.5m~∞	
Field of View	5°	
Power		
Type	Rechargeable Lithium battery	
Voltage	7.4V DC, 3100mAH	
Operating Time	18 Hours*⁴	
Level Vials		
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
Others		
Dust and Water Protection	IP 66	
Display	Dual Side, LCD 6 Lines	
Keyboard	Alphanumeric 24 Keys	
Operating Temperature	-20° ~ +60°	
Atmosphere Correction	Manual Input, Auto Correction	
Earth Curvature Correction	Manual Input, Auto Correction	
Prism Constant	Manual Input, Auto Correction	
Dimension	190mm x 195mm x 335mm	
Weight (approx..)	5.5kg	

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

STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery LB-01	2x
Tools pouch	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

You Local Authorized Dealer

SOUTH
Target your success

N6s Series
Best-Selling Total Station

- 2" Accuracy
- Long-Range Prism (5000m) and Non-Prism (1000m/1500m) EDM
- Trigger Key, Hot key for faster operation
- 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

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
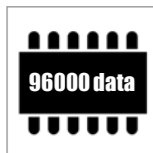Lock and fine adjustment tangent screw

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

Bigger Memory
Up to save 100,000 data blocks

Technologies

|		
1500m – 1000/1500m Reflectorless	Speed – Ultra Fast Measurement	Co-axial Laser Beam
Ultra Low-noise Amplifier	Noise Phase Analysis	150HMZ – Carrier Frequency
Bluetooth	USB Flash Memory	Dual Axis Compensation
Laser Plummet	Laser Pointing	IP66
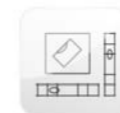
New Hot Key Functions and BT Data Transfer

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.
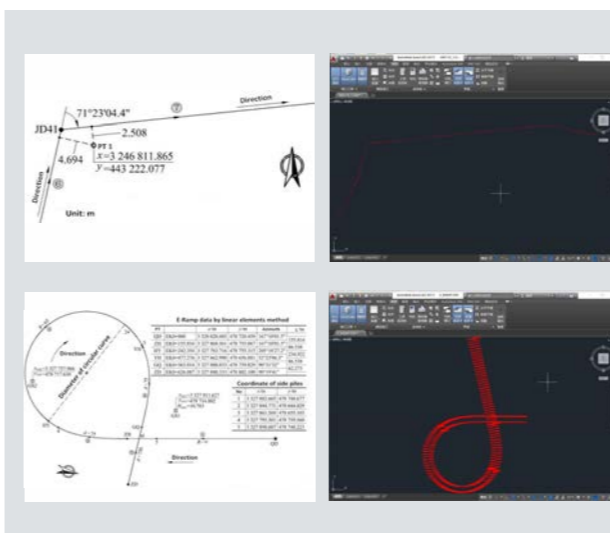
Programes

REM	Resection	Road Design
Column Offset	Plane Offset	Distance Offset
Area Cal.	MLM	P/L SO

Easy-to-use Onboard System

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
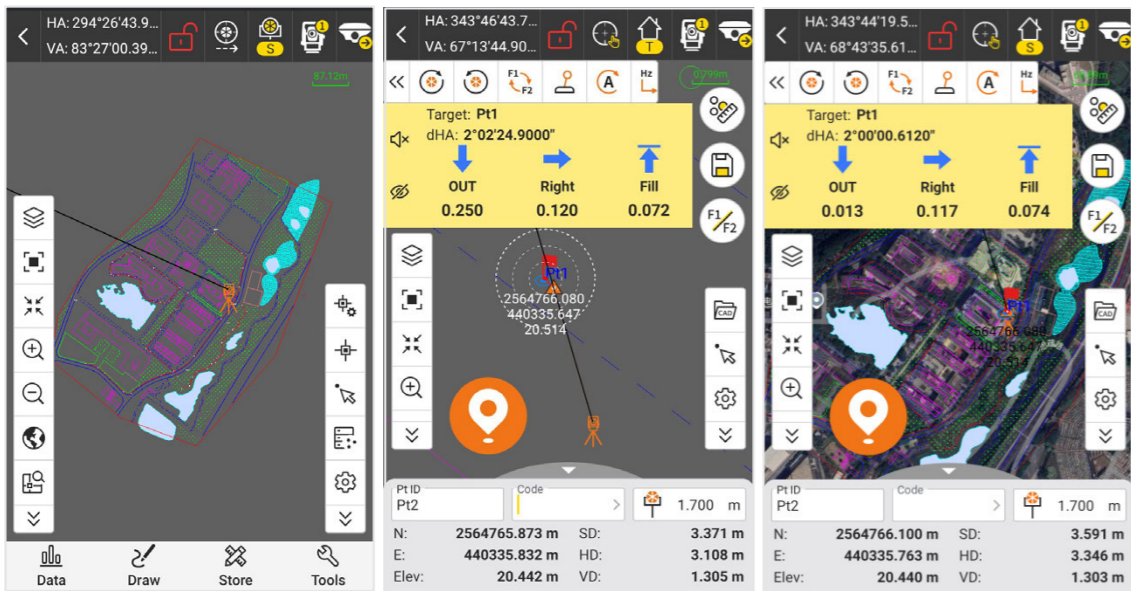
Work on Data Collector

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.
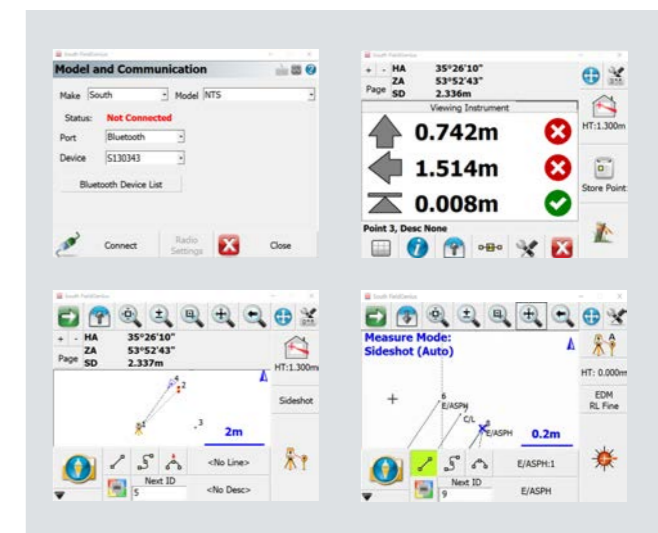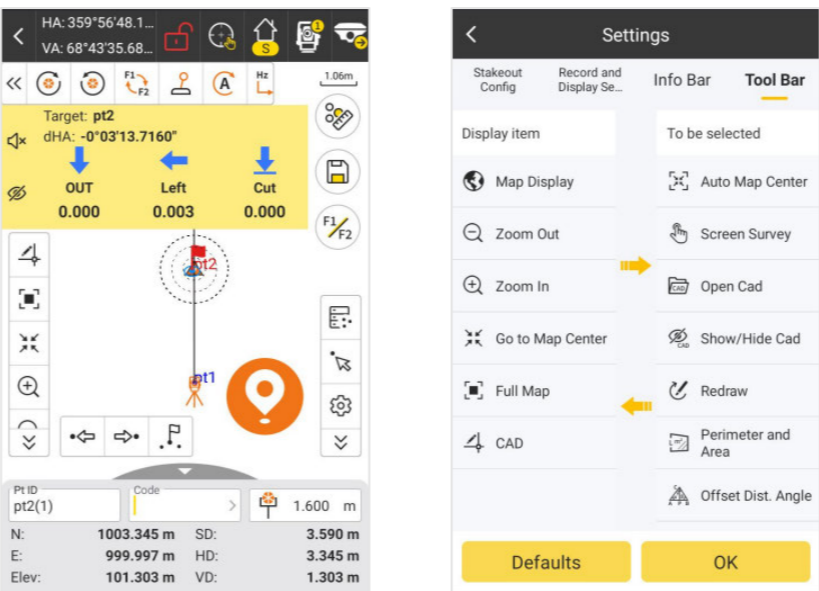
Total Station Module of SurvStar App: *Four Main Features to Give You More Power & Freedom*
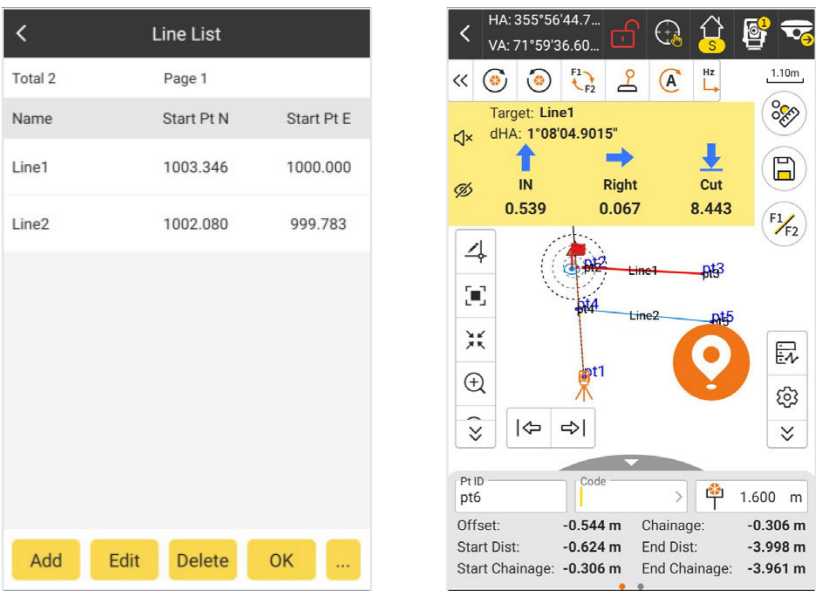
CAD Stakeout: Increasing Productivity & Decreasing Error

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.

## 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.

Measure & Draw: Save Time in Both Field work and Indoor Work
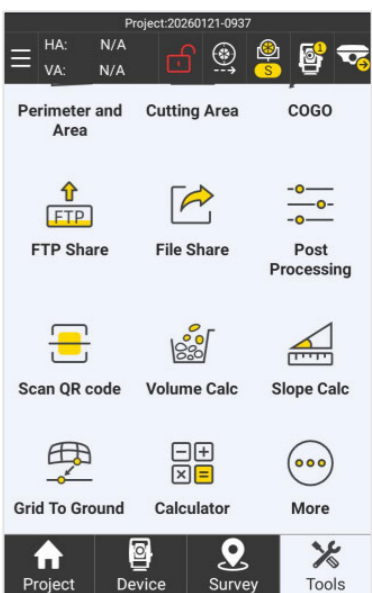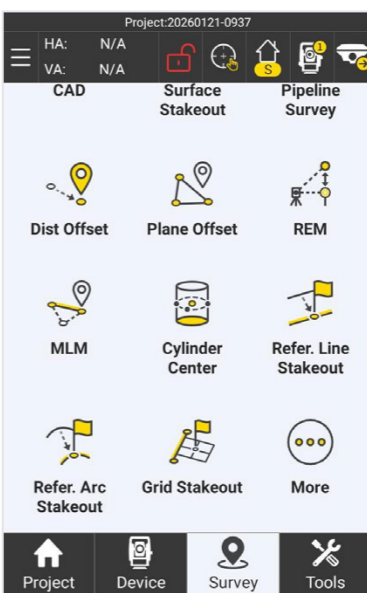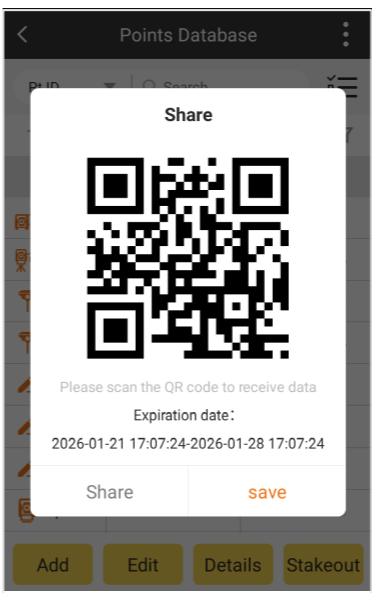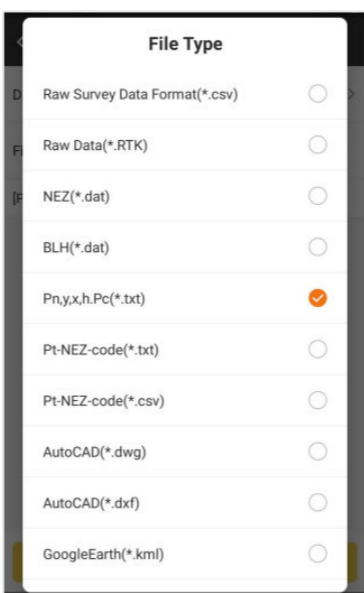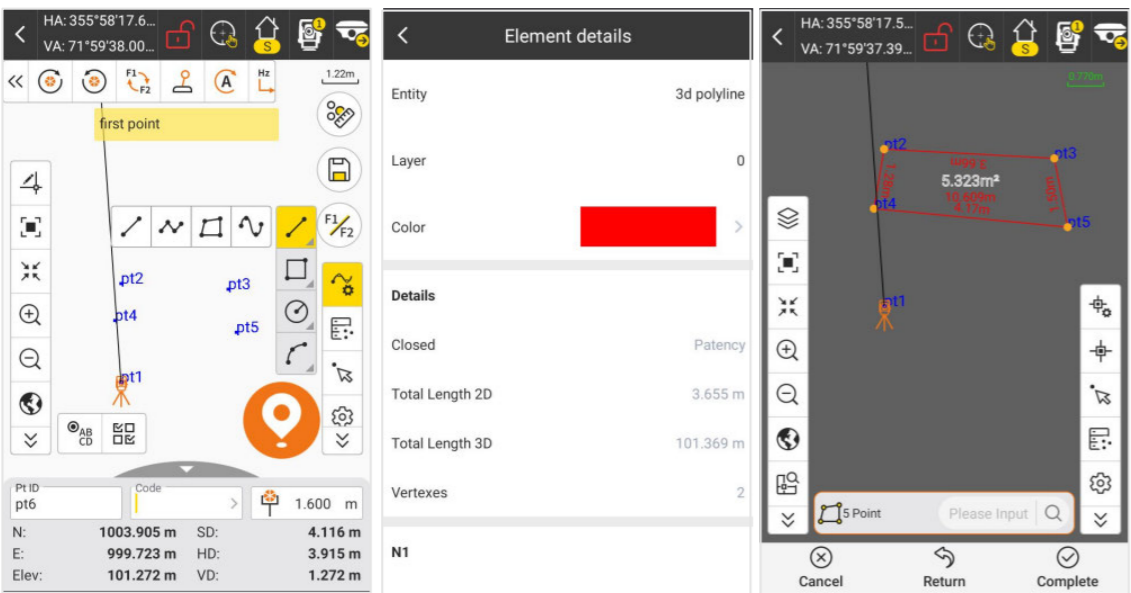
User is allowed to draw line, polygon, circle...up to 11 kinds of graphic, while measuring target points. No need to manually draw draft map anymore.

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.

Other Features: More Innovation, No Limitation

File transfer type
(up to 31 kinds of file format)

Can share QR code points

Set Occupied Point from CAD basemap or Graphic Map

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