

## SPECIFICATIONS

	N6+ 2"		N6+ 5"	
Distance Measurement				
Range	R10	R15	R10	R15
Reflector	5000m*1			
Reflectorless*2	1000m	1500m	1000m	1500m
Accuracy				
Reflector	±(2+2ppm x D)mm			
Reflectorless	±(3+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"		5"	
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	1m			
Resolving Power	3"			
Tilt Sensor				
System	Dual Axis Liquid-Electric			
Working Range	±3'			
Accuracy	1"			
Communications				
Communication Ports	USB Port			
Data Interface	USB Stick, Bluetooth			
Effective Range of Bluetooth	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	10 Hours*4			
Level Vials				
Plate Vial	30"/2mm			
Circular Vial	8'/2mm			
Others				
Dust and Water Protection	IP66			
Display	Dual sides, 6 lines, black and white			
Keyboard	Alphanumeric 28 Keys			
Operating Temperature	-20°C ~ +50°C			
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
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°C . It might be shorter in low temperature or if the battery is old.

## OPTIONAL ACCESSORIES



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

You Local Authorized Dealer

**SOUTH**  
Target your success

# N6+ Series

Best-Selling Total Station  
New Operating System



- 2" / 5" 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 120,000 data block
- Longer operation Time up to 10 hours per battery

**SOUTH**  
Target your success

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



# What is new for N6+

## 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



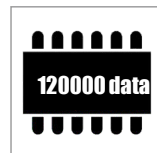
### USB Flash Disk

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 120,000 data blocks



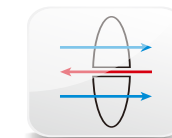
## TECHNOLOGIES



1000m  
Reflectless



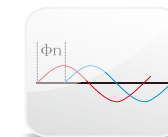
Ultra Fast  
Measurement



Co-axial  
Laser Beam



Ultra Low-  
noise Amplifier



Noise Phase  
Analysis



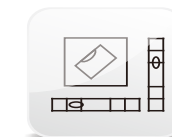
Carrier  
Frequency



Bluetooth



USB Storage



Dual Axis  
Compensation



Laser Plummet

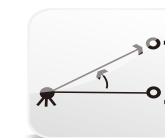


Laser Pointing



IP66

## PROGRAMS



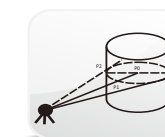
REM



Resection



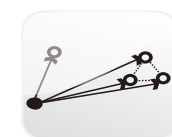
Road Design



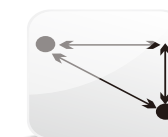
Column Offset



Plane Offset

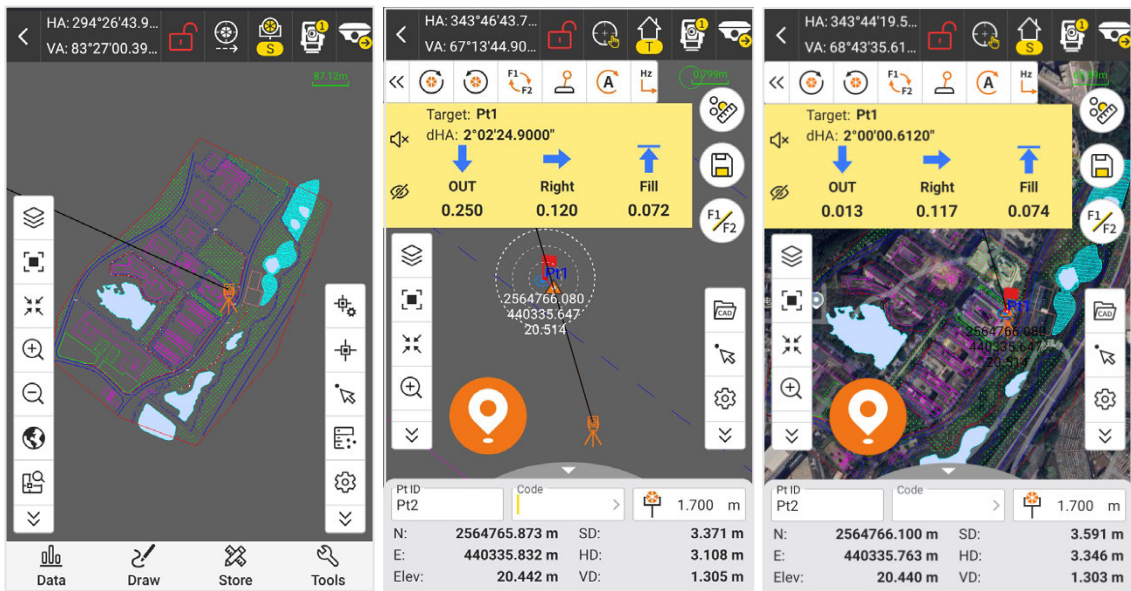


Distance Offset

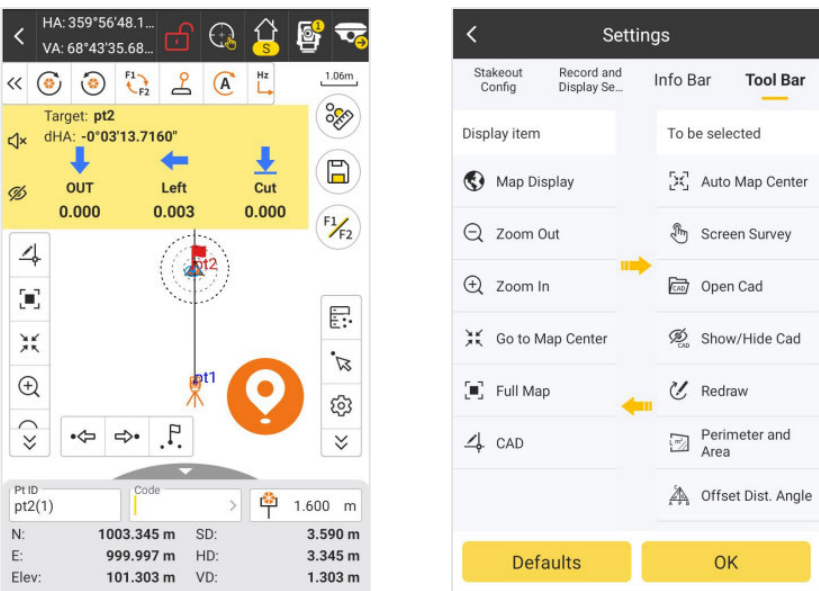


# Total Station Module of SurvStar App: Four Main Features to Give You More Power & Freedom

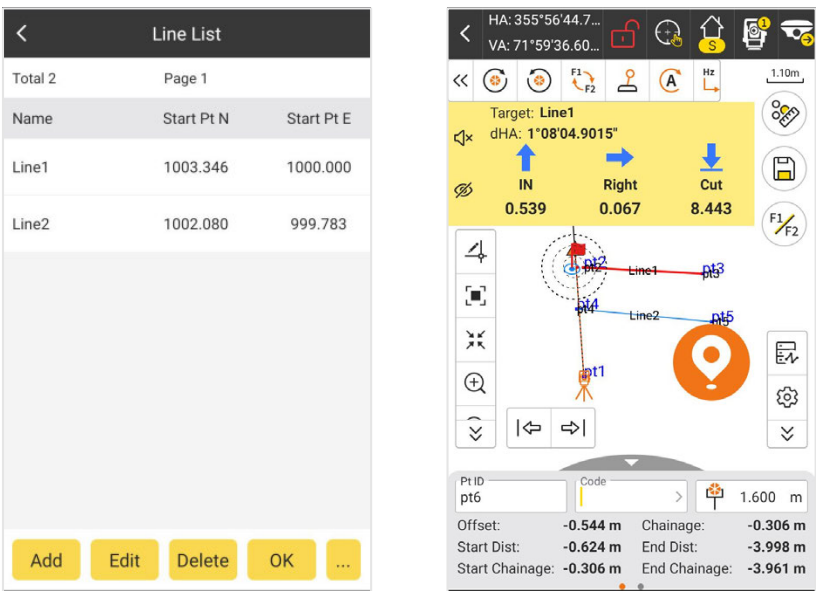
## CAD Stakeout: Increasing Productivity & Decreasing Error



## Point Survey & Stakeout: More Ease and Convenience



## Line Stakeout: Smarter than Traditional Way



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

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.

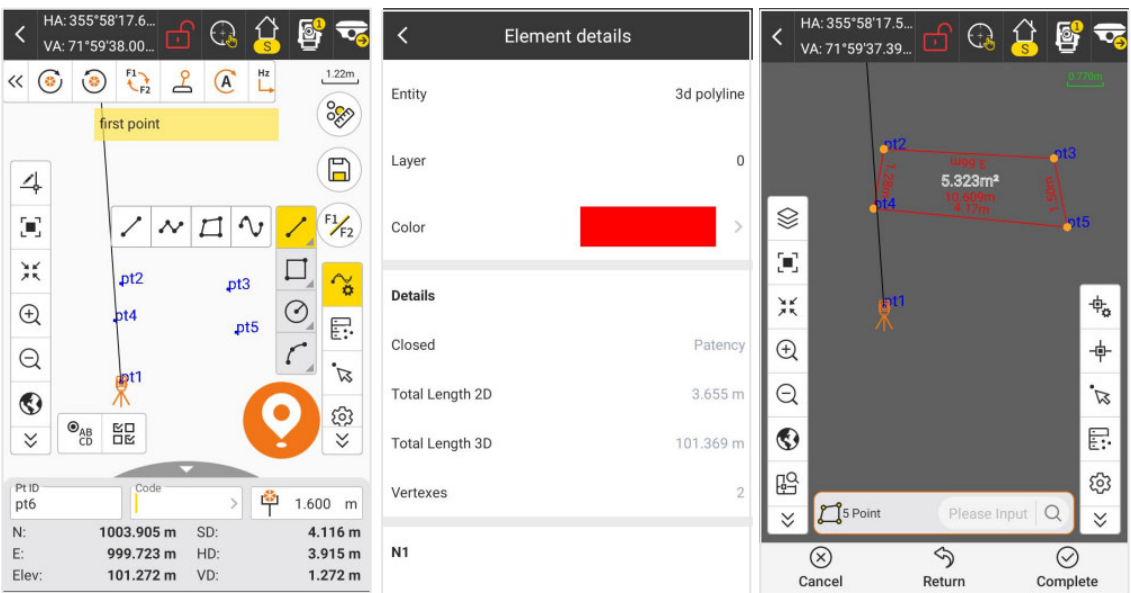
User is allowed to manually choose points from library, line will be formed by program automatically. Then user input interval distance, setout points will be calculated out and displayed on screen.

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

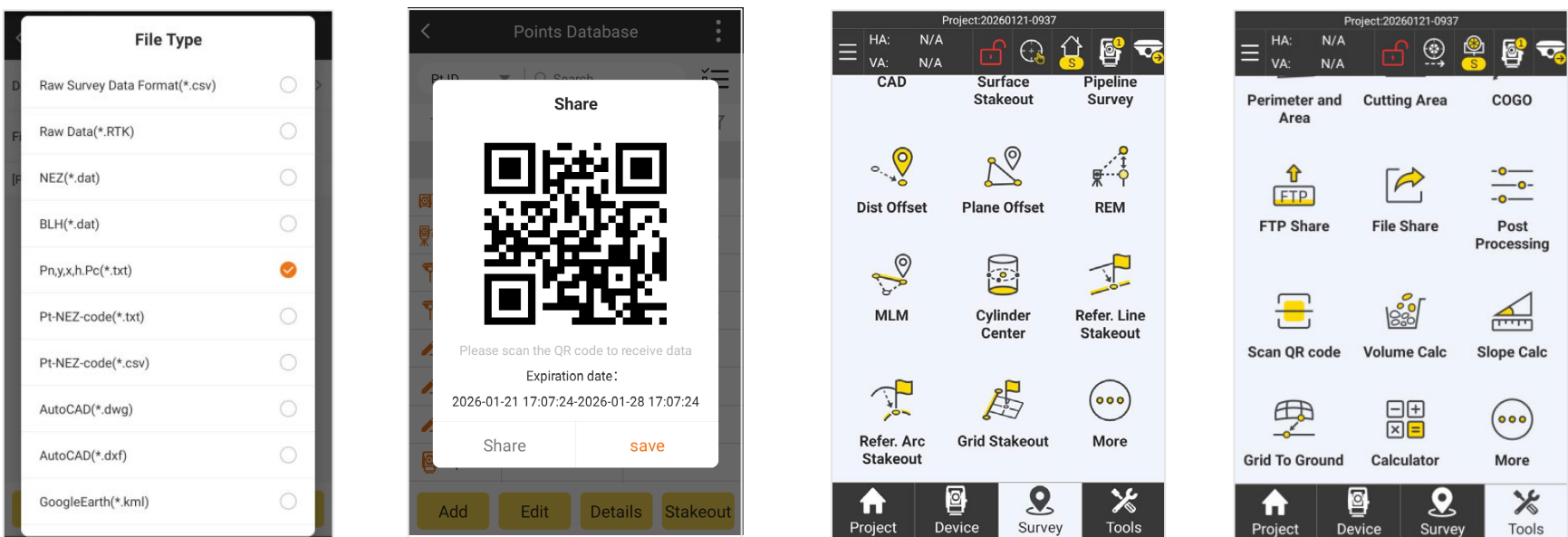
The stakeout program screen displays information more completely, indicates target points more intuitively, your workflow will be smoother than before.

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

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



## Other Features: More Innovation, No Limitation



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.

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

Can share QR code points

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.

Set Occupied Point from CAD basemap or Graphic Map

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