

## 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



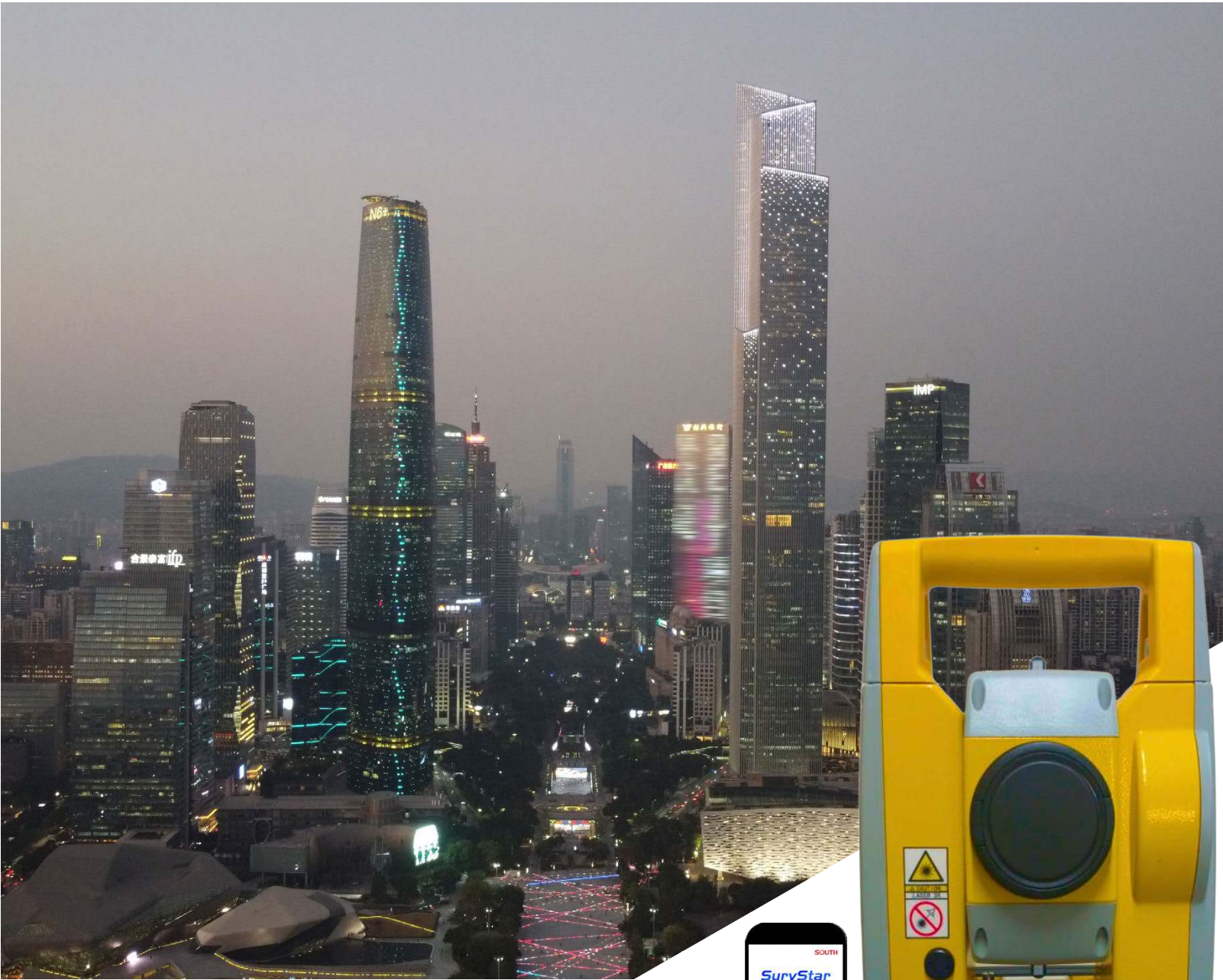
ATS-2 Wooden Tripod  
NLS-15 Prism Pole  
TK21T Prism Set

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



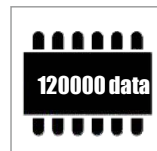
### USB Flash Disk

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



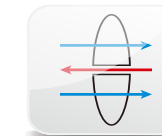
## TECHNOLOGIES



1000m  
Reflectless



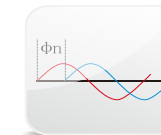
Ultra Fast  
Measurement



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



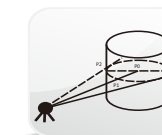
REM



Resection



Road Design



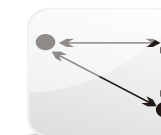
Column Offset



Plane Offset

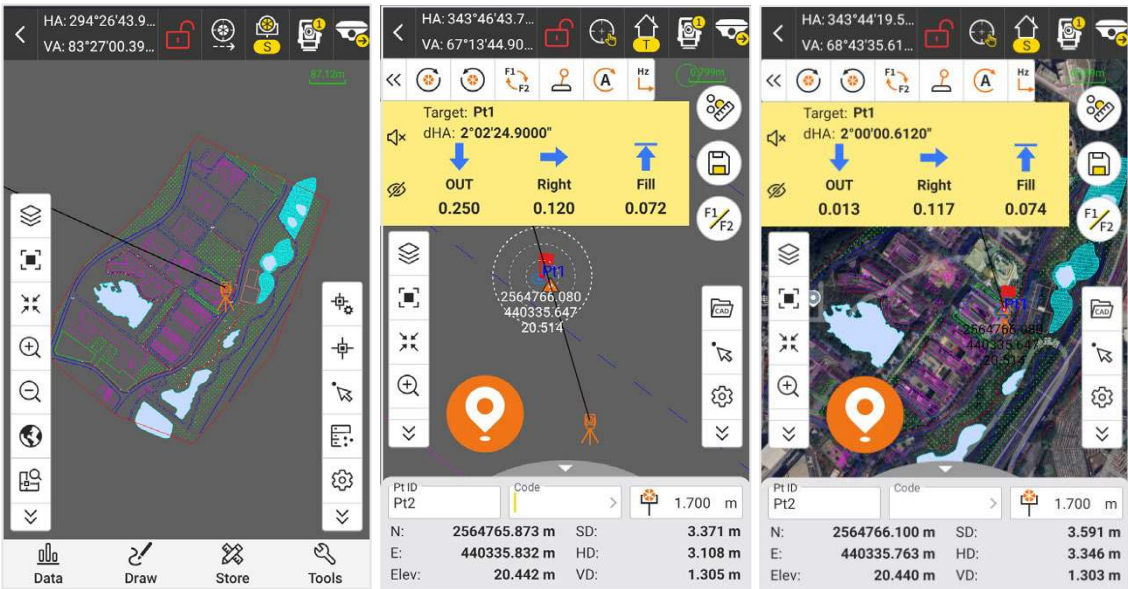


Distance Offset



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

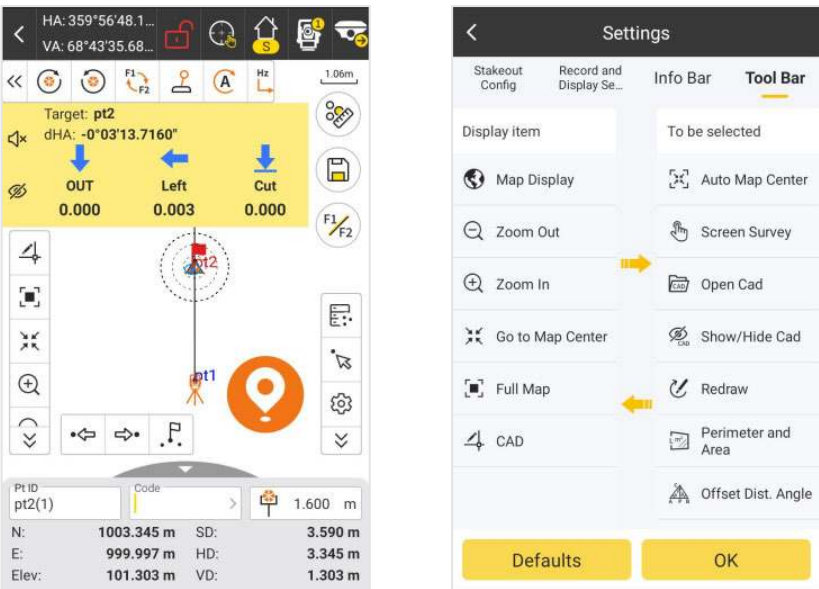
## CAD Stakeout: Increasing Productivity & Decreasing Error



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.

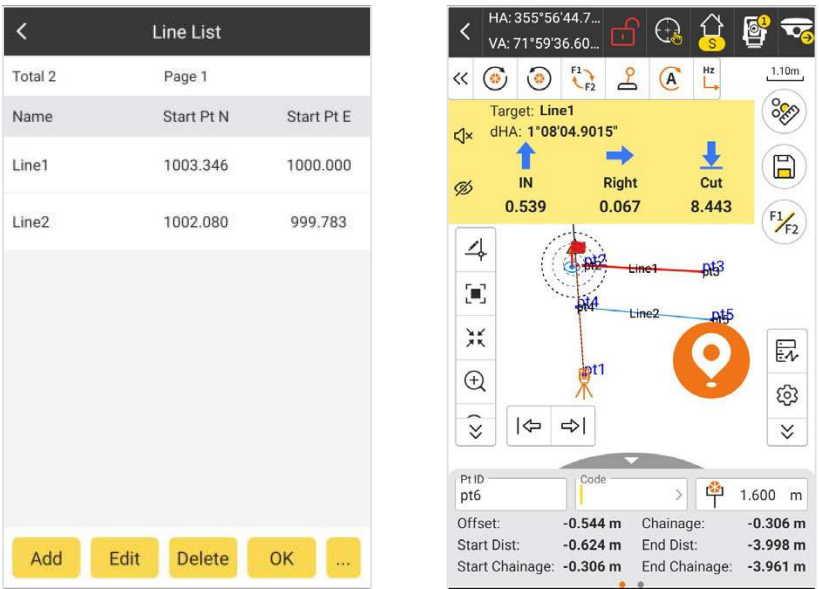
## Point Survey & Stakeout: More Ease and Convenience



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.

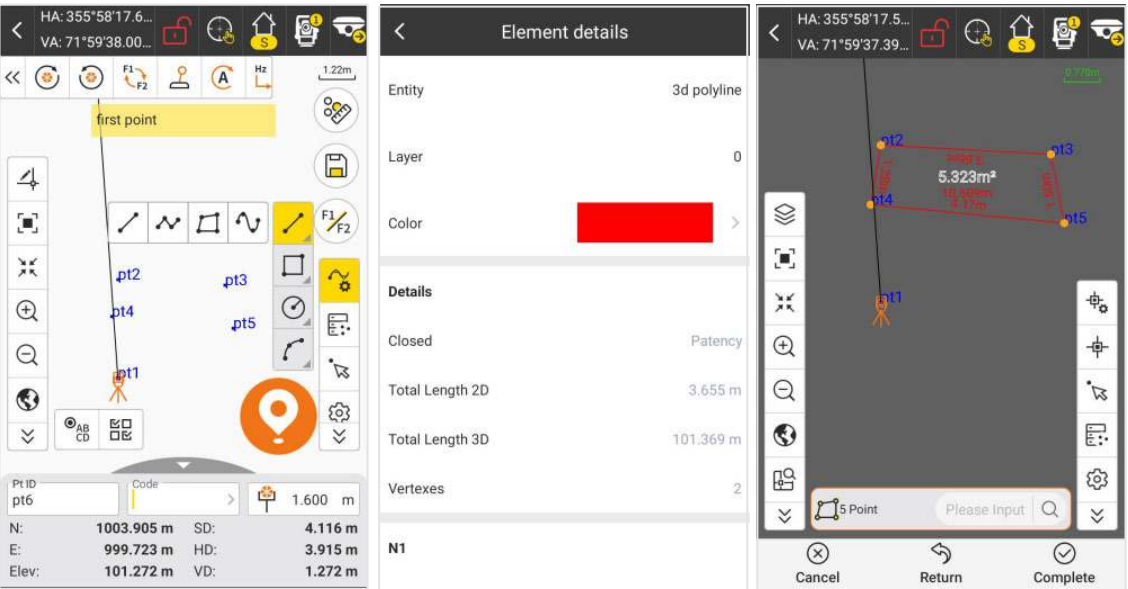
## Line Stakeout: Smarter than Traditional Way



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.

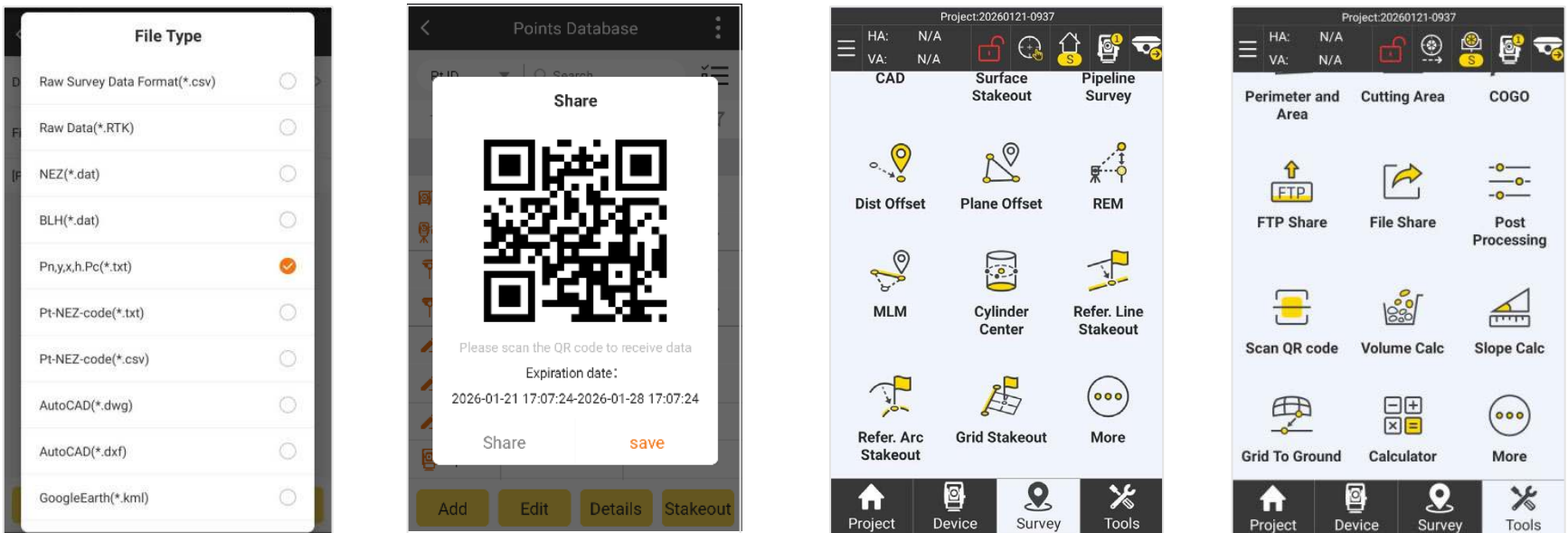
## Measure & Draw: Save Time in Both Field work and Indoor Work



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...