

## SPECIFICATIONS

|                              |                   | N6+                                    | N6H                |
|------------------------------|-------------------|--|--------------------|
| <b>Distance Measurement</b>  |                   |  |                    |
| Reflector Range              |                   | 5000m*1                                |                    |
| Reflectorless*2 Range        |                   | 1000m or 1500m                         |                    |
| Accuracy                     | Reflector         | $\pm(2+2\text{ppm} \times D)\text{mm}$ |                    |
|                              | Reflectorless     | $\pm(3+2\text{ppm} \times D)\text{mm}$ |                    |
| 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    |                    |
| <b>Angle Measurement</b>     |                   |  |                    |
| Accuracy                     |                   | 2" or 5"                               |                    |
| Reading System               |                   | Absolute Encoding                      |                    |
| Circle Diameter              |                   | 79mm                                   |                    |
| Minimum Increment            |                   | 1"/5"                                  |                    |
| Detection Method             |                   | Horizontal: Dual, Vertical: Dual       |                    |
| <b>Telescope</b>             |                   |  |                    |
| 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"                                     |                    |
| <b>Tilt Sensor</b>           |                   |  |                    |
| System                       |                   | Dual Axis Liquid-Electric              |                    |
| Working Range                |                   | $\pm 4'$                               |                    |
| Accuracy                     |                   | 1"                                     |                    |
| <b>Communications</b>        |                   |  |                    |
| Communication Ports          |                   | USB Port                               |                    |
| Data Interface               |                   | USB Stick, Bluetooth                   |                    |
| Effective Range of Bluetooth |                   | 10m                                    |                    |
| <b>Plummet</b>               |                   |  |                    |
| Laser Plummet                |                   | $\pm 1.5\text{mm}$ at 1.5m             |                    |
| Optical Plummet (Optional)   |                   | Erect Image                            |                    |
| Magnification                |                   | 3 X                                    |                    |
| Focusing Range               |                   | 0.5m~ $\infty$                         |                    |
| Field of View                |                   | 5°                                     |                    |
| <b>Auto Height</b>           |                   |  |                    |
| Working Range                |                   | -                                      | 0.5-3m             |
| Min. Reading                 |                   | -                                      | 1mm                |
| Accuracy                     |                   | -                                      | $\pm 1.5\text{mm}$ |
| <b>Guide Light</b>           |                   |  |                    |
| Type                         |                   | LED                                    |                    |
| Wavelength                   |                   | Red 635nm/ Green 590nm                 |                    |
| Effective Range              |                   | 200m                                   |                    |
| <b>Power</b>                 |                   |  |                    |
| Type                         |                   | Rechargeable Lithium battery           |                    |
| Voltage                      |                   | 7.4V DC, 5000mAH                       |                    |
| Operating Time               |                   | 16 Hours*4                             |                    |
| <b>Level Vials</b>           |                   |  |                    |
| Plate Vial                   |                   | 30"/2mm                                |                    |
| Circular Vial                |                   | 8"/2mm                                 |                    |
| <b>Others</b>                |                   |  |                    |
| Dust and Water Protection    |                   | IP55                                   |                    |
| Display                      |                   | Dual Side, LCD 6 Lines                 |                    |
| Keyboard                     |                   | Alphanumeric 24 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

**SOUTH**  
 Target your success

# N6 Series

## Best-Selling Total Station



- 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 96000 data block
- Longer operation Time up to 10 hours per battery

Version: N6 series 1.0

**SOUTH**  
 Target your success

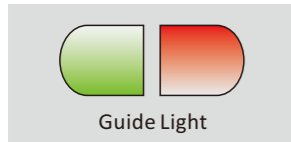
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# What is new for N6 series

## Outstanding Performance and Versatile Functions

### Red/Green Guide Light



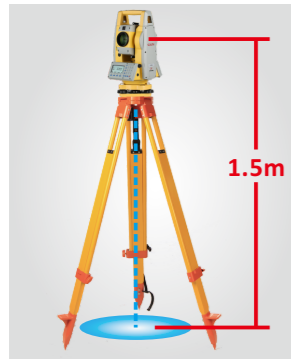
Guide Light

- Red and green guide light is built into the EDM as a standard feature.



- The guide light is extremely visible and easy to get into the correct direction line, enhancing the work sufficiency of stake out in the range of 200m.

### Auto Height



- Get the instrument height by a simple button press.
- Save time and cost by accurate measurement.
- No more mistakes from manual operations.
- Not necessary to take extra accessory, e.g. tape.

### Greater Battery Capacity



- New seat charger, more convenient charging
- 10 hours to 16 hours, extra long battery life



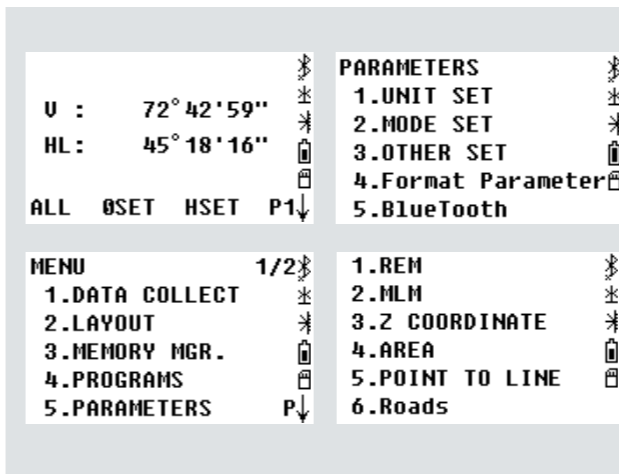
### Easy-to-use Onboard System

New tool-bar design on the side of screen, which helps you check the status of your N6 series Total Station in real-time.

Choose N6 series 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.

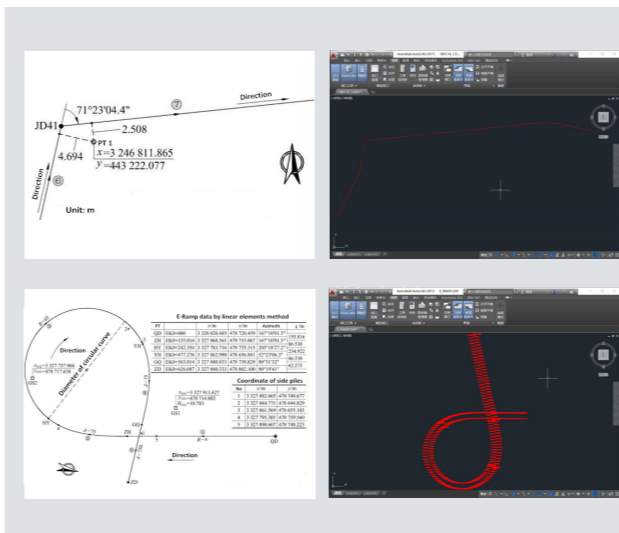
Such as:

- ▶ Offset: angle, distance, column offset
- ▶ Point to Line: to calculate the coordinate of occupied point based on a known point and line
- ▶ COGO: calculation of coordinate geometry



### 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.

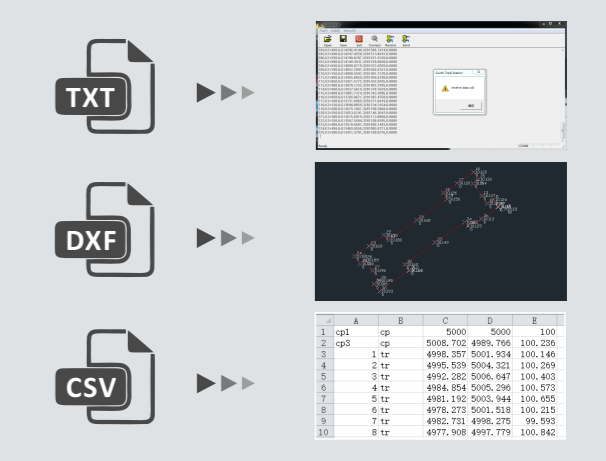


### New Hot Key Functions and BT Data Transfer

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

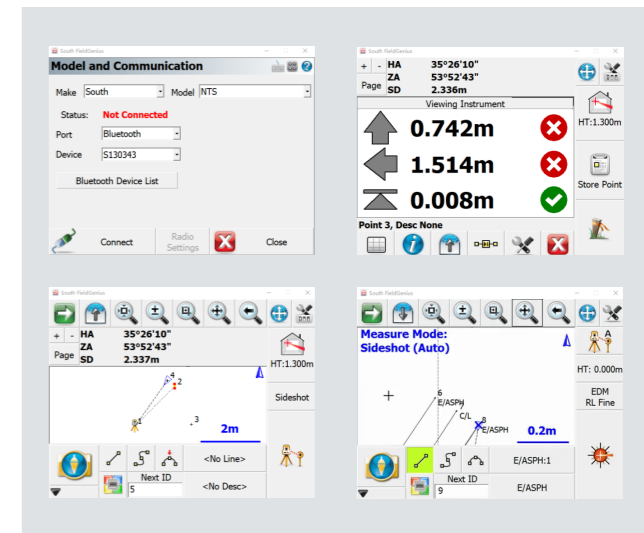
Cable free data transfer work with transfer software, one key export to USB stick, generate TXT, CSV, DXF files.

|                 |                  |                        |
|-----------------|------------------|------------------------|
| 7 STN Setup     | 8 BS by XYZ      | 9 BS by Angle          |
| 4 Resection     | 5 Create new job | 6 Select XYZ call file |
| 1 Memory manage | 2 View meas file | 3 View XYZ file        |
| 0 Stake Out     | • Tilt           | - Data                 |



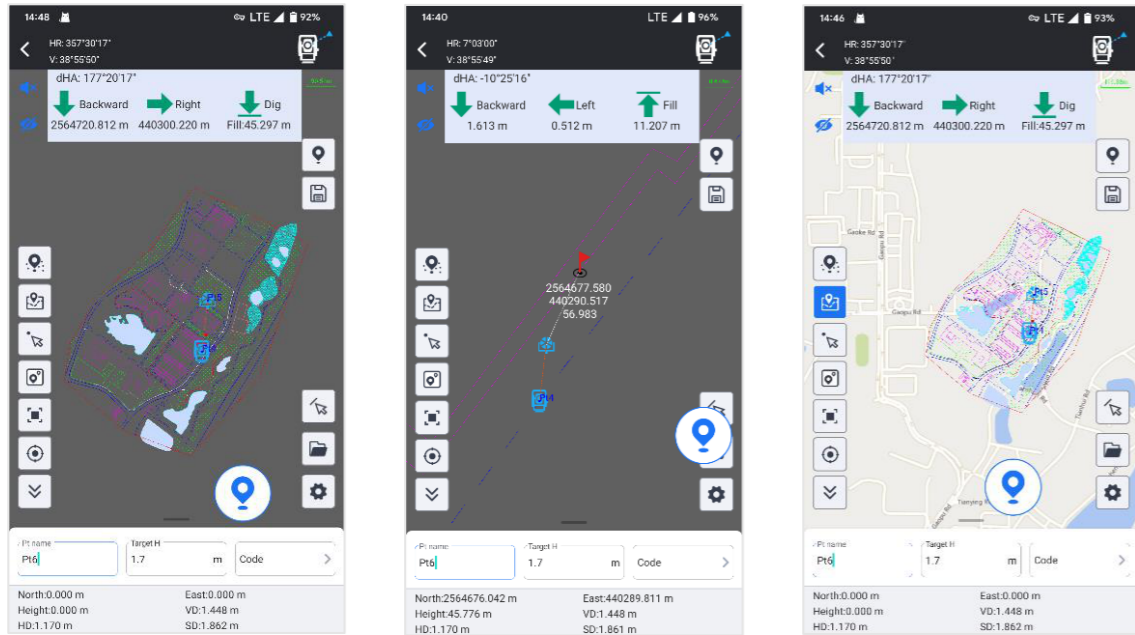
### Work on Data Collector

After added the Bluetooth module on N6 series, 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 N6 series and other software you wish to use.



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

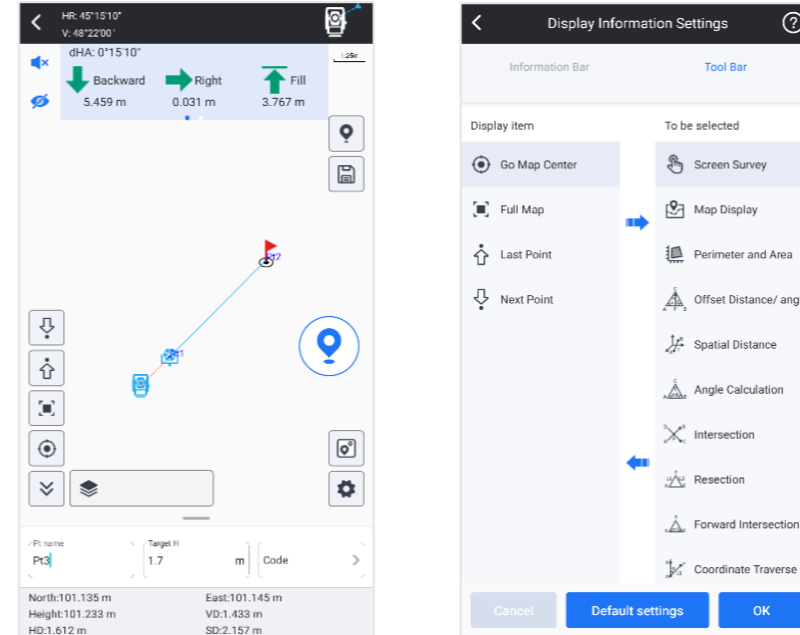
## CAD Stakeout: Increasing Productivity & Decreasing Error



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.

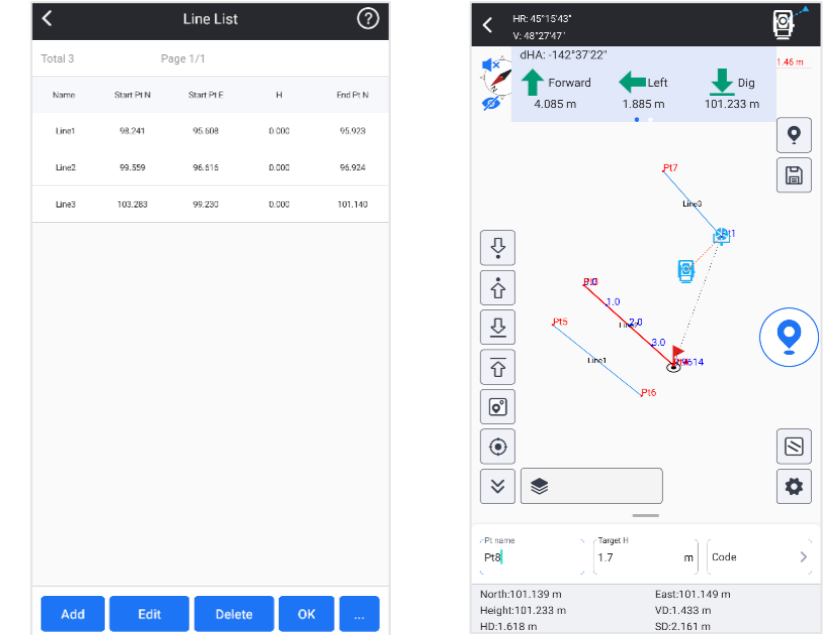
## Point Survey & Stakeout: More Ease and Convenience



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.

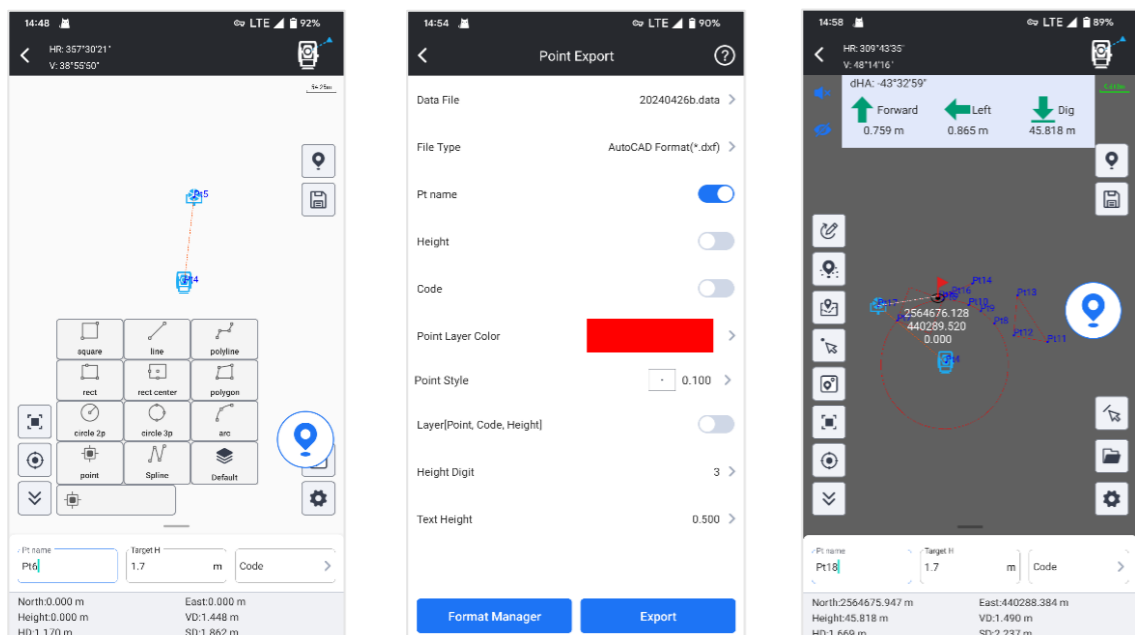
## Line Stakeout: Smarter than Traditional Way



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.

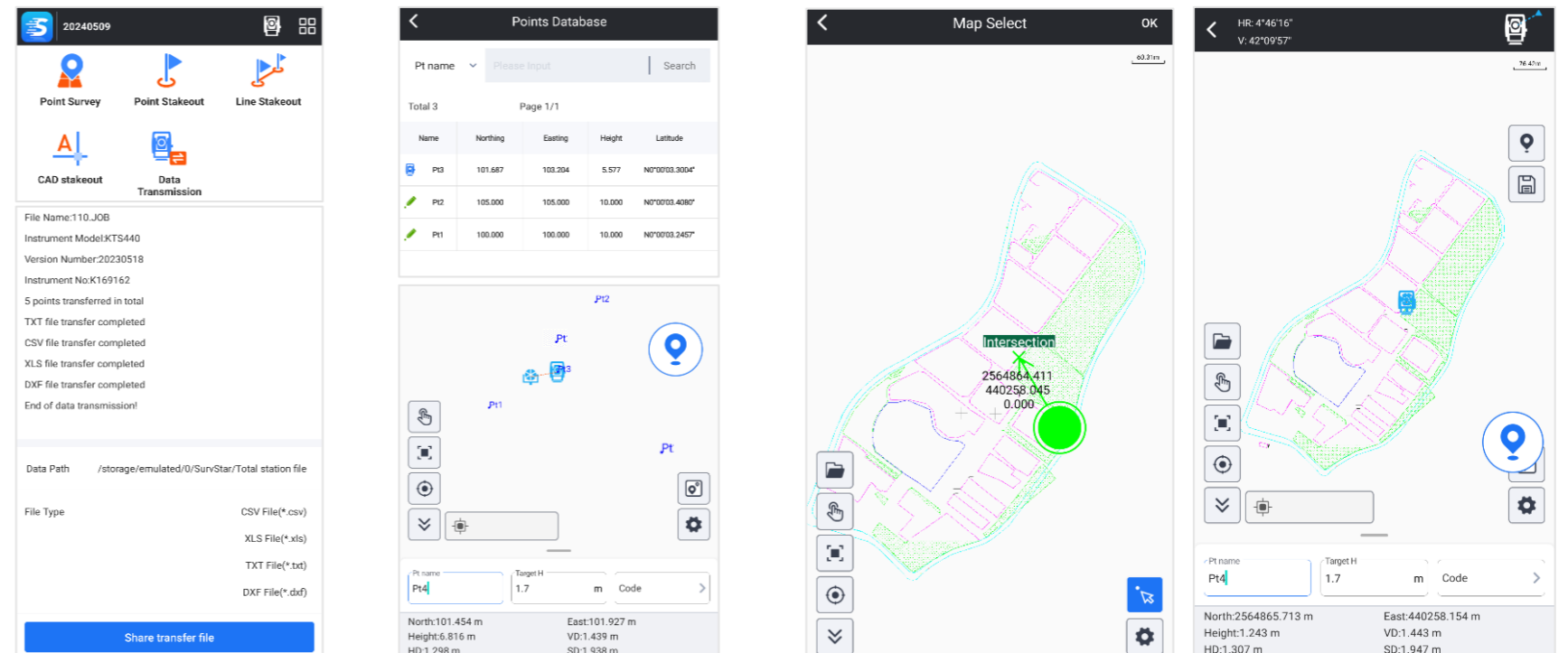
## Measure & Draw: Save Time in Both Field work and Indoor Work



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



Download & Share (.csv, .dxf, .txt, .xls)

Resection

Set Occupied Point from CAD basemap or Graphic Map

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