

Specifications

| Model   |   | A1 1"      |                                   | A1 2" |         |
|---|---|------------|-----------------------------------|-------|---------|
| Distance Measurement (Reflector)                      |   |            |                                   |       |         |
| Range*  | Prism Set   | 5000m      |                                   |       |         |
|   | Reflector Sheet   | 1000m      |                                   |       |         |
| Accuracy  | ± ( 1+1×10 <sup>-6</sup> · D ) mm                           |            | ± ( 2+2×10 <sup>-6</sup> · D ) mm |       |         |
| Measure Time  | Continuous: 0.35s, Tracking: 0.2s, Single: less than 1.2s   |            |                                   |       |         |
| Distance Measurement (Reflectorless)                  |   |            |                                   |       |         |
| Range (Kodak Standard Gray, 90% Diffuse Reflectance)* | 1000m   |            |                                   |       |         |
| Accuracy  | 0-300m 3+2    300-600m 5+2    >600m 10+2                    |            |                                   |       |         |
| Measure Time  | Continuous: 0.35s, Tracking: 0.2s, Single: less than 1.2s   |            |                                   |       |         |
| Angle Measurement                                     |   |            |                                   |       |         |
| Measure Method  | Absolute Encoding   |            |                                   |       |         |
| Diameter of Encoding Disk                             | 79mm  |            |                                   |       |         |
| Min. Reading  | 0. 1"/1"  |            | 1"                                |       |         |
| Accuracy  | 1"  |            | 2"                                |       |         |
| Telescope   |   |            |                                   |       |         |
| Image   | Erect   |            |                                   |       |         |
| Tube Length   | 152mm   |            |                                   |       |         |
| Effective Aperture                                    | Effective: 45mm    DTM: 47mm                                |            |                                   |       |         |
| Magnification   | 30X   |            |                                   |       |         |
| Field of View   | 1° 30'  |            |                                   |       |         |
| Resolution  | 3"  |            |                                   |       |         |
| Min. Focusing Range                                   | 1. 5m   |            |                                   |       |         |
| Comprehensive parameter                               |   |            |                                   |       |         |
| Sensor  | Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1") |            |                                   |       |         |
| Atmospheric Correction                                | T-P Sensor Auto Correction                                  |            |                                   |       |         |
| Prsim Constant  | Auto Correction   |            |                                   |       |         |
| Trigger   | Under Battery House   |            |                                   |       |         |
| Vial  |   |            |                                   |       |         |
| Plate Vial  | 30"/2mm   |            |                                   |       |         |
| Circular Vial   | 8'/2mm  |            |                                   |       |         |
| Plummet   | Laser Plummet (Optical Optional)                            |            |                                   |       |         |
| Data Transfer   | RS-232C, USB, Bluetooth, Flash Disk                         |            |                                   |       |         |
| Display Unit  |   |            |                                   |       |         |
| Type  | LCD, Graphic  |            |                                   |       |         |
| Size  | 5. 0 Inch   |            |                                   |       |         |
| Graphic Display                                       | Max: 99999999.999   | Min: 0.1mm | Max: 99999999.999                 |       | Min:1mm |
| Battery   |   |            |                                   |       |         |
| Power Supply  | Lithium Battery   |            |                                   |       |         |
| Voltage   | 7.4V  |            |                                   |       |         |
| Working Hours   | 8 Hours   |            |                                   |       |         |
| Dimention And Weight                                  |   |            |                                   |       |         |
| Dimention   | 206x200x353mm   |            |                                   |       |         |
| Weight  | 6.0kgs  |            |                                   |       |         |
| Storage   |   |            |                                   |       |         |
| ROM   | 16GB  |            |                                   |       |         |
| RAM   | 2GB   |            |                                   |       |         |
| Function  |   |            |                                   |       |         |
| GPS   | Available   |            |                                   |       |         |
| Voice Recording                                       | Available   |            |                                   |       |         |
| CPU   | MT6735  |            |                                   |       |         |
| Data And Network                                      |   |            |                                   |       |         |
| Data Transfer   | Bluetooth, Wifi, Wifi Hotspot                               |            |                                   |       |         |
| 4G  | Available   |            |                                   |       |         |
| 3G/2G   | Available   |            |                                   |       |         |
| System Version (Sep.2018)                             | ANDROID 5.1   |            |                                   |       |         |

\* COLOR AND DESIGN MAY VARY.



A1

ANDROID TOTAL STATION



Android O.S

Iconic Software

5.0 Inch Capacitive Touch Screen



SOUTH PRECISION INSTRUMENT PVT. LTD.

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www.southprecision.in

CUSTOMER SERVICE SUPPORT : AHMEDABAD CHENNAI HYDERABAD INDORE KOLKATA MUMBAI




## Features




The first Android Total Station **A1** features open interface, available for any 3rd party software  
Available for customized software based on your own request  
5.0 Inch capacitive screen with multi-touch technology, quick and smooth for operations.

## Hardware

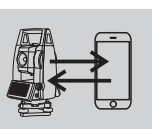
### Intergrated CPU



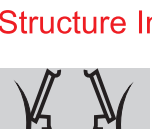
**Fast**  
MTK MT6735 quad-core processor boosts speed, responsiveness and performance  
64 digits Cortex-A53 MPCore™ structure, in 1.3GHz frequency



**Enhanced algorithm**  
Powerful GPU with MaliT720-MP2 3D processor




**WIFI/4G Network**  
Compatible with the main network system in worldwide, available for SIM card




**Multiple Transfer**  
Standard Bluetooth, WIFI, Hotspot, RS232C, USB connection

### Structure Improved



**Stable:** Horizontal co-axis, improved the stability of accuracy



**Dual-Compensator:** Re-located at the vertical center

## Software

### simple but not simplistic

#### Professional Framing

Iconic user interface, offers a smooth and flashing working experience.  
Behind every simple step on A1 is our unremitting efforts to optimized the algorithm.

#### Built-in Toolbar, Quicker Than Ever

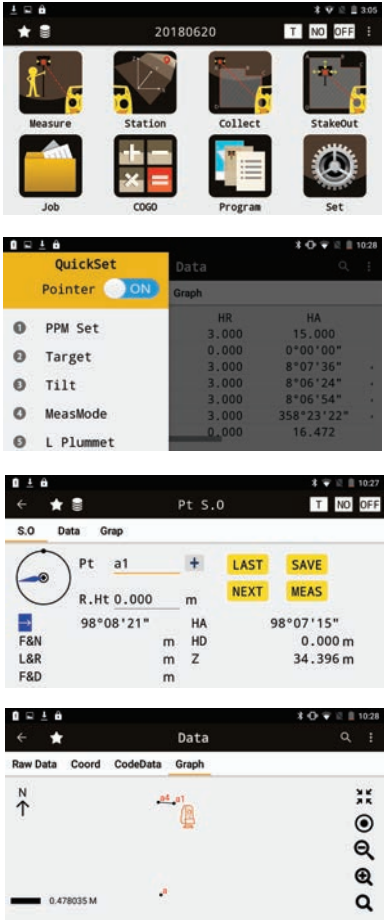
Integrate the setting page of laser pointer and plummet switch into quick menu.  
The switching of measure mode, target and sensor becomes quicker to activate in toolbar than the other models.

#### Stake-out Guidance

Compass pointer with stake-out sketch, driving the new premium extras and powerful tools for your job.  
A1 considered all the possible request by summing up the user's feedback over the years.

#### Automatic Graph Drawing

The graphic drawing in A1 realizes the data viewing and outputs in real-time.  
Precision designed down to the last pixel in all conditions.



## Functions

