

## SPECIFICATIONS

Model	A1 1"	A1 2"
<b>Distance Measurement (Reflector)</b>		
Range	5000m 1000m	
Accuracy	$\pm(1+1\times 10^{-6}\cdot D)\text{mm}$	$\pm(2+2\times 10^{-6}\cdot D)\text{mm}$
Measure Time	Continuous: 0.35s, Tracking: 0.2s, Single: less than 1.2s	
<b>Distance Measurement (Reflectorless)</b>		
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	
<b>Angle Measurement</b>		
Detection Method	Absolute Encoding	
Diameter of Encoding Disk	79mm	
Min. Reading	0.1"/1"	1"
Accuracy	1"	2"
<b>Telescope</b>		
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	
<b>Comprehensive parameter</b>		
Sensor	Dual-axis Liquid-Electric Sensor (Range: $\pm 3'$ , Accuracy: 1")	
Atmospheric Correction	T-P Sensor Auto Correction	
Prism Constant	Auto Correction	
Trigger	Under Battery House	
IP Standard	IP55	
<b>Vial</b>		
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
Plummet	Laser Plummet (Optical Optional)	
Data Transfer	RS-232C, USB, BLUETOOTH, Flash Disk	
<b>Display Unit</b>		
Type	LCD, Graphic	
Size	5.0 Inch	
Graphic Display	Max: 99999999.999 Min: 0.1mm	Max: 99999999.999 Min: 1mm
<b>Battery</b>		
Power Supply	Lithium Battery	
Voltage	7.4V	
Working Hours	8 Hours	
<b>Dimension And Weight</b>		
Dimension	206x200x353mm	
Weight	6.0kgs	
<b>Storage</b>		
ROM	32GB	
RAM	3GB	
<b>Function</b>		
GPS	Available	
Voice Recording	Available	
CPU	mt6735	
<b>Data And Network</b>		
Data Transfer	BLUETOOTH*, Wifi*, Wifi Hotspot*	
4G	Available	
3G/2G	Available	
System Version (Sep.2018)	ANDROID 9.0	

\*Not available on A1 Lite.

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**SOUTH**  
Target your success

# A1

## Android Total Station

*"Infinite Possibility"*



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Version: A1 2.0



## 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

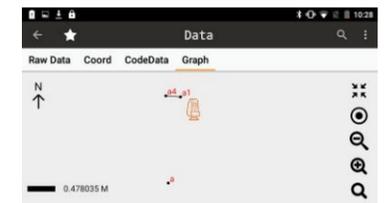
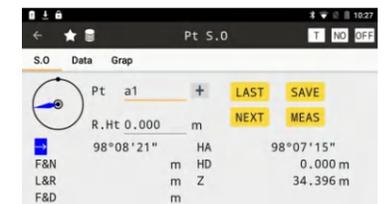
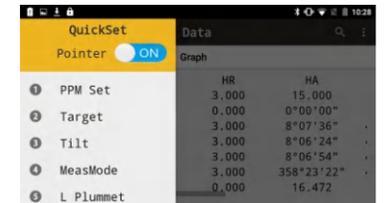
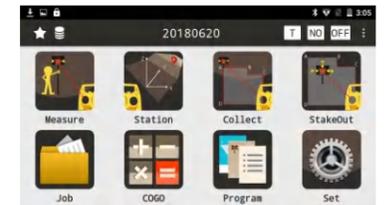
Integrate the setting page of laser pointer and plummet switch into quick menu. The switching of measure mode, target and sensor becomes quicker to activate in toolbar than the other models.

### 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.



## Features

- Android O.S
- Multi-Touch
- 1"/2"**  
Enhanced
- Absolute Encoding
- EDM 1000m**
- Versatile Storage
- Wireless Connection

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 4-core processor boosts speed, responsiveness and performance 64 digits Cortex-A53 MPCORE TM 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

## Functions

- CORD.
- REM
- Angle Repeat
- MLM
- Resection
- Road
- Angle Offset
- Distance Offset
- Plane Offset
- Column Offset
- Area
- Tunnel

