

## SPECIFICATIONS

Model	A1 1"	A1 2"	A1X 1"	A1X 2"			
<b>Laser Plummet - AutoHI</b>							
Type			Class II red laser				
Measuring Range	—		0.6-2.0m				
Minimum Reading	—		1mm				
Distance Accuracy	—		3mm				
Deviation	—		0.4mm @ 1.5m height				
Spot Diameter	—		1.5mm @ 1.5m height				
<b>Distance Measurement (Reflector)</b>							
Range		Single: 5000m					
		Triple: 1000m					
		Sheet: 1000m					
Accuracy	$\pm(1+1\times10^{-6}\cdot D)$ mm	$\pm(2+2\times10^{-6}\cdot D)$ mm	$\pm(1+1\times10^{-6}\cdot D)$ mm	$\pm(2+2\times10^{-6}\cdot D)$ mm			
Measure Time	Fine: 0.3s, Tracking: 0.2s, Normal: 0.2s						
<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	Fine: 0.3s, Tracking: 0.2s, Normal: 0.2s						
<b>Angle Measurement</b>							
Detection Method	Absolute Encoding						
Diameter of Encoding Disk	79mm						
Min. Reading	0.1"	1"	0.1"	1"			
Accuracy	1" / 2"		1" / 2"				
<b>Telescope</b>							
Image	Erect						
Tube Length	154mm						
Effective Aperture	Effective: 45mm DTM: 50mm						
Magnification	30X						
Field of View	1°30'						
Resolution	3"						
Min. Focusing Range	1.5m						
<b>Guide Light</b>							
Type	—	Red+yellow flashing LEDs					
Working Range	—	150m					
<b>Comprehensive parameter</b>							
Sensor	Dual-axis Liquid-Electric Sensor (Range: ±6', Accuracy: 1")						
Atmospheric Correction	T-P Sensor Auto Correction						
Prsim 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 (1")	Max: 99999999.999	Min: 1mm (2")			
<b>Battery</b>							
Power Supply	Lithium Battery 5000mAh						
Voltage	7.4V						
Working Hours	10 Hours						
<b>Dimention And Weight</b>							
Dimention	206x200x353mm						
Weight	6kg						
<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	ANDROID 9						

© South Surveying & Mapping Technology CO.,LTD All Rights Reserved

**SOUTH**  
Target yoursucces

**SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.**

Add: South Geo-information Industrial Park, No.39, Si Cheng Road, Tian He District,  
Guangzhou 510663, China  
http://www.southinstrument.com

**SOUTH**  
Target yoursucces

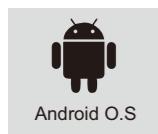
**A1 series**

Android Total Station





## Features



Android O.S



Multi-Touch



1" / 2"  
Enhanced



Absolute  
Encoding



EDM  
1000m



Versatile  
Storage



Wireless  
Connection

The first Android Total Station **A1 series** features open interface, available for any 3rd party software

Available for customized software based on your own request

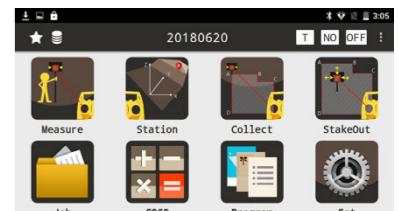
5.0 Inch capacitive screen with multi-touch technology, quick and smooth for operations.

## Software

simple but not simplistic

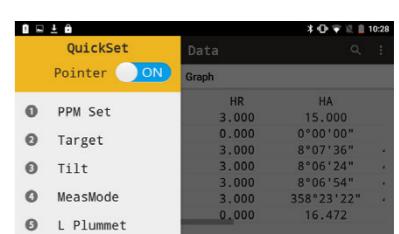
### Professional Framing

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



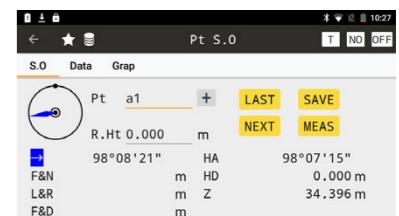
### Built-in Toolbar, Quicker Than Ever

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.



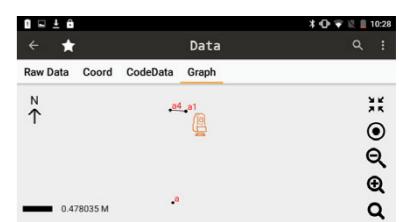
### Stake-out Guidance

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.



## Hardware

### Integrated CPU



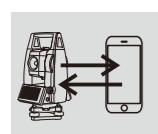
#### Fast

MTK MT6735 4-core processor boosts speed, responsiveness and performance  
64 digits Cortex-A53 MPCORE TM structure, in 1.3GHz frequency



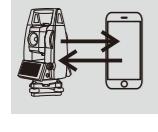
#### Enhanced algorithm

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

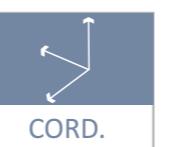
### Structure Improved



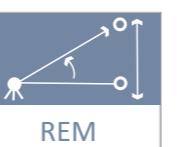
Stable: Horizontal co-axis, improved the stability of accuracy

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

