Specifications

SOUTH

Model		A1 1"	A1 2"
Distance Measurement (Reflector)			
Range*	Prism Set	5000m	
	Reflector Sheet	1000m	
Accuracy		± (1+1×10^{-6}· D) mm	± (2+2×10^{-6}· 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	

SOUTH
Target your success

A1

Android Total Station

"Infinite   Possibility"

Android O.S

Iconic Software

5.0 Inch Capacitive Touch Screen

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 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.

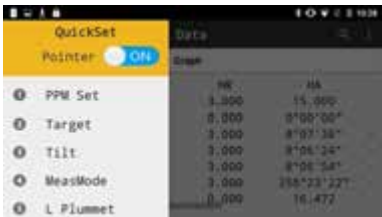### Built-in Toolbar, Quicker Than Ever

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

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