# **SPECIFICATIONS**

Model         A1 1"         A1 2"           Distance Measurement (Reflector)         5000m         5000m           Range         ±(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)         1000m           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         Diameter of Encoding Disk         79mm           Diameter of Encoding Disk         79mm         1°           Min. Reading         0.1"/1"         1°         2°           Telescope         1°         2°         1°           Image         Erect         152mm         152mm         Effective Aperture         Effective: 45mm DTM: 47mm         47mm         Magnification         30X         Field of View         1°30'         Resolution         3"         Min. Focusing Range         1.5m         Comprehensive parameter         5ensor         Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1'	
Range         5000m           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         Detection Method         Absolute Encoding           Diameter of Encoding Disk         79mm           Min. Reading         0.1"/1"         1"           Accuracy         1"           Telescope           Image         Erect           Tube Length         152mm           Effective Aperture         Effective: 45mm DTM: 47mm           Magnification         30X           Field of View         30X           Resolution         3"           Min. Focusing Range         1.5m           Comprehensive parameter         Dual-axis Liquid-	
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         Detection Method         Absolute Encoding           Diameter of Encoding Disk         79mm           Min. Reading         0.1"/1"         1"           Accuracy         1"         2"           Telescope           Image         Erect           Tube Length         152mm           Effective: 45mm DTM: 47mm           Magnification         30X           Field of View         1°30'           Resolution         3"           Min. Focusing Range         1.5m           Comprehensive parameter         Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1'	
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       Detection Method       Absolute Encoding         Diameter of Encoding Disk       79mm         Min. Reading       0.1"/1"       1"       2"         Accuracy       1"       2"       2"         Telescope         Image       Erect         Tube Length       152mm       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'	
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       Detection Method       Absolute Encoding         Diameter of Encoding Disk       79mm         Min. Reading       0.1"/1"       1"       2"         Accuracy       1"       2"       2"         Telescope         Image       Erect       152mm       Effective       4	1
Distance Measurement (Reflectorless) Range (Kodak Standard Gray, 90% Diffuse Reflectance)* Accuracy O-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 Detection Method Absolute Encoding Diameter of Encoding Disk 79mm Min. Reading 0.1"/1" 1" Accuracy 1" 2" Telescope Image Erect Tube Length Effective Aperture Magnification Fifled of View Resolution Resolution Min. Focusing Range Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')  Comprehensive parameter	
Range (Kodak Standard Gray, 90% Diffuse Reflectance)*  Accuracy  Measure Time  Continuous: 0.35s, Tracking: 0.2s, Single: less than 1.2s  Angle Measurement  Detection Method  Diameter of Encoding Disk  Min. Reading  Accuracy  Telescope  Image  Ima	
Accuracy0-300m 3+2300-600m 5+2>600m 10+2Measure TimeContinuous: 0.35s, Tracking: 0.2s, Single: less than 1.2sAngle MeasurementAbsolute EncodingDetection MethodAbsolute EncodingDiameter of Encoding Disk79mmMin. Reading0.1"/1"1"Accuracy1"2"TelescopeImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1"30'Resolution3"Min. Focusing Range1.5mComprehensive parameterDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1"	
Angle Measurement  Detection Method Diameter of Encoding Disk T9mm  Min. Reading O.1"/1" 1" Accuracy 1" 2"  Telescope Image Erect Tube Length Effective Aperture Effective Aperture Magnification Field of View Resolution Resolution Min. Focusing Range Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
Angle MeasurementDetection MethodAbsolute EncodingDiameter of Encoding Disk79mmMin. Reading0.1"/1"1"Accuracy1"2"TelescopeImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1'	
Diameter of Encoding Disk  Min. Reading  O.1"/1"  Accuracy  1"  Z"  Telescope  Image  Tube Length  Effective Aperture  Magnification  Magnification  Field of View  Resolution  Min. Focusing Range  Comprehensive parameter  Sensor  Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
Min. Reading0.1"/1"1"Accuracy1"2"TelescopeImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1")	
Min. Reading0.1"/1"1"Accuracy1"2"TelescopeImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 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')	
ImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
ImageErectTube Length152mmEffective ApertureEffective: 45mm DTM: 47mmMagnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
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')	
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')	
Magnification30XField of View1°30'Resolution3"Min. Focusing Range1.5mComprehensive parameterSensorDual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
Field of View 1°30'  Resolution 3"  Min. Focusing Range 1.5m  Comprehensive parameter  Sensor Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
Min. Focusing Range  Comprehensive parameter  Sensor  Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1'	
Comprehensive parameter       Sensor     Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1')	
Sensor Dual-axis Liquid-Electric Sensor (Range: ±3', Accuracy: 1'	
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	

 $<sup>^{*}\</sup>mathbb{O}$  South Surveying & Mapping Technology CO.,LTD All Rights Reserved



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No. 39 Si Cheng Road, Tian He IBD, Guangzhou 510663, China Tel: +86-20-23380888 Fax: +86-20-23380800

E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com euoffice@southsurvey.com http://www.southinstrument.com



# A1 **Android Total Station**





## **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



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

# 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.

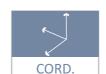








## **Functions**



MLM

Angle Offset



Resection















