



ALPHA X⁺

COLOR TOUCH SCREEN
TOTAL STATION



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WHERE PRECISION MEETS INNOVATION



ALPHA X⁺

The **ALPHA X⁺** total station is a color touchscreen total station launched by ALPHAGEO, featuring a ridged body design that combines practicality and aesthetics. Its brand-new interactive mode allows users to operate freely via touch control. It is widely used in engineering surveying, topographic and cadastral surveying, as well as supporting operations with road design software, making it very user-friendly for engineering professionals.



Color Touch Screen



Dual-axis Compensation



Absolute Encoding



Waterproof & Dustproof



Data Storage



Laser Plummet



USB Interface



Bluetooth Transmission

Features

- **3.5" color touch screen**

Innovative design for precise interaction and efficient control, 320 x 480 Resolution, High-definition Display, Sensitive Touch.

- **Backlit buttons**

Equipped with ambient light sensor, which can adjust brightness to improve work efficiency in dark environments.

- **Touch interaction, graphical interface**

Newly designed software kernel, framework and process. Deep integration of touch and graphics, reconstructing the intelligent paradigm of Human-Robot collaboration.

- **Measurement trigger key, one-click measurement & storage**

With measurement trigger key in side of the instrument, assuring one-click measurement and data storage while aiming at the target.

- **Integrated compensation, fast & accurate**

The integrated dual-axis tilt auto-compensation system, coaxially mounted, automatically corrects the angle measurement errors caused by vertical axis tilt in the circle reading, ensuring precise measurement.

- **Long battery life**

Standard with two 7.4V/3200mAh batteries, single battery working time ≥8h, Type-C charging port, can connect to external power/battery.

- **Break the boundaries of connection, multi-form data transmission**

Type-C universal physical interface with Bluetooth wireless transmission, achieving intelligent seamless connection.

- **Massive storage, supporting USB disk**

Built-in high-speed + external flexible storage architecture design, building efficient and reliable data management



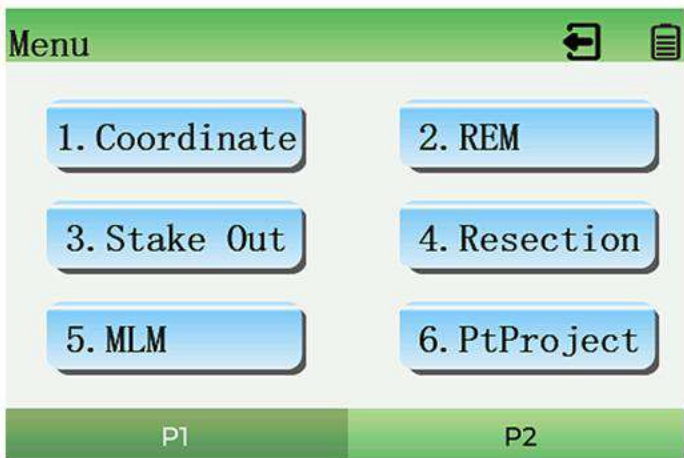
Software Interface



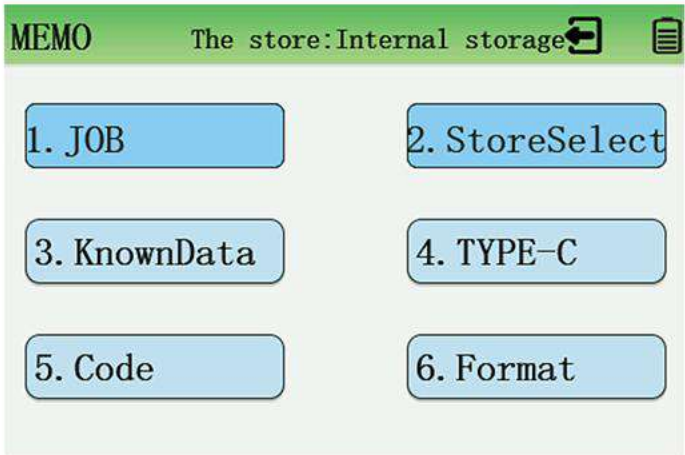
Angle/Distance Measurement



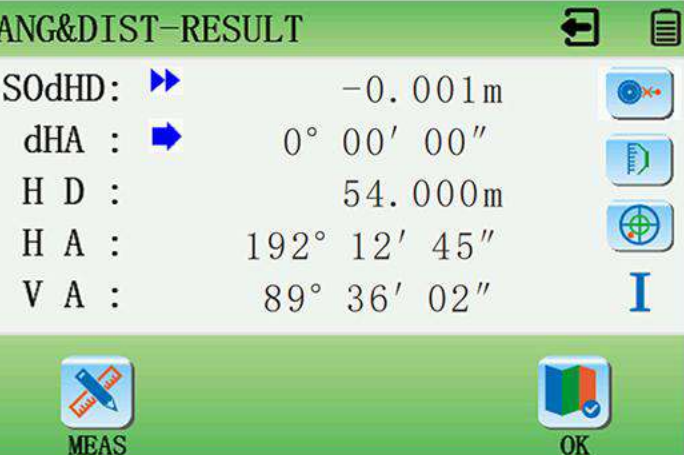
Graphic Menu



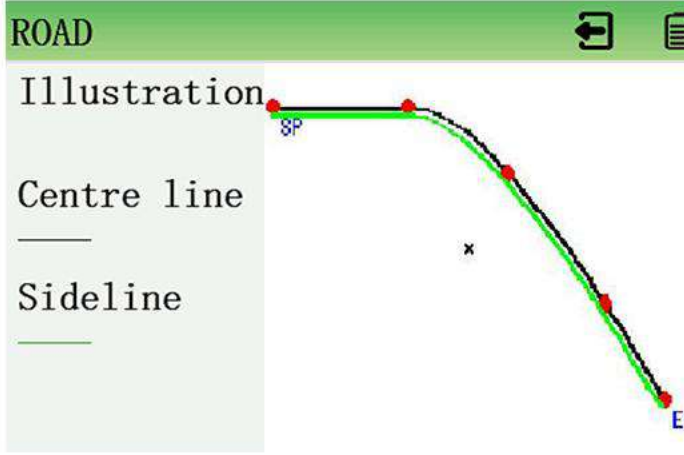
Functions Diversification



Multiple Storage Ways

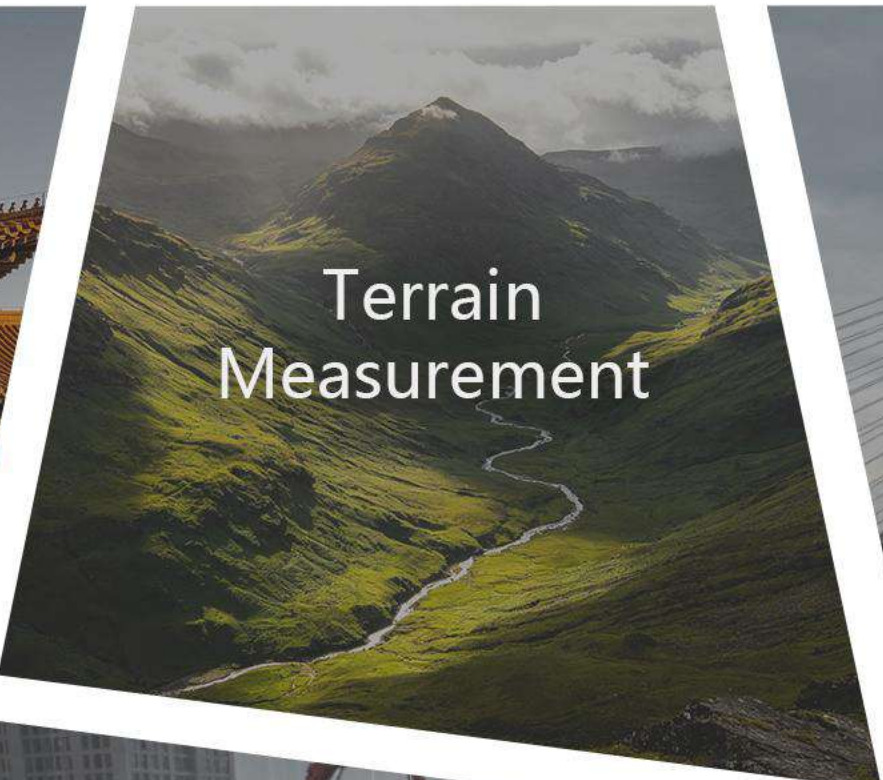
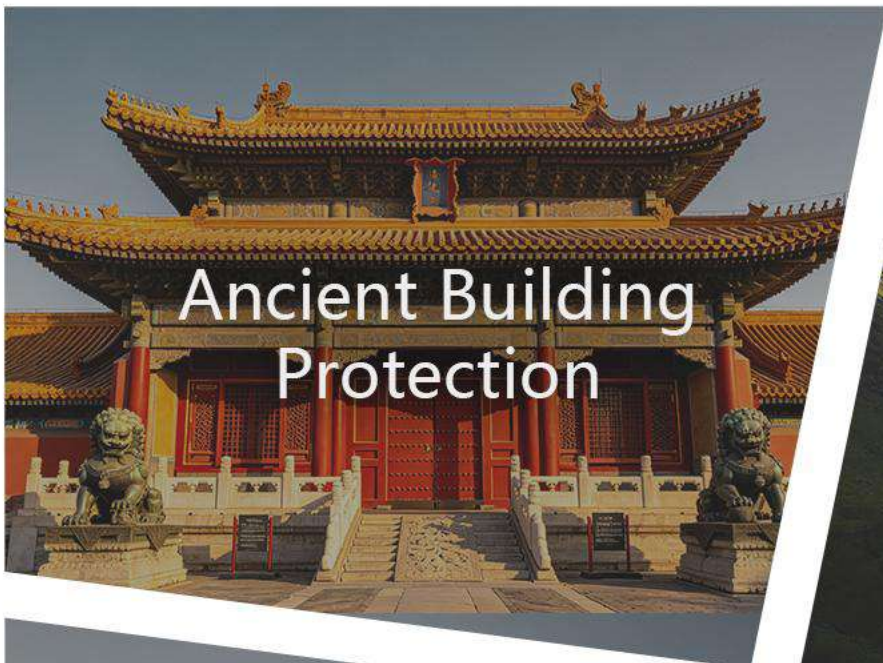


Coordinate Stakeout



Road Calculation Stakeout

Application Scenarios



SPECIFICATIONS

Telescope		Data storage	
Image	Erect	Memory	30000 points
Magnification	30x	Extension	USB-HOST
Field of view	1°30'	Data transmission	Type-C/RS232C/USB-OTG
Minimum focus	1m	Plummet	
Effective aperture	50mm	Type	Laser plummet
Resolution	4"	Accuracy	+1.0mm at 1.5m
Angle measurement		Spot diameter	2.5mm at 1.5m
Angle method	Absolute encoding	Brightness	Adjustable
Accuracy	2"	Other functions	
Detection method	Diameter 2 channel line array CMOS	Keyboard display	Double-sided keyboard
Minimum reading	0.1"/1" selectable	Display screen	6 lines of characters
Distance measurement		3.5-inch color screen, resistive touch	
Measurement range		Buttons	Numbers/letters/symbols, button backlight
Single prism	5000m	Temperature & air pressure	Automatic correction
Reflective sheet/RP60	1200m	External power	DC7.5V-DC12V
Reflectorless	1000m	Weight	6.0kg
Accuracy	2mm+2x10 ⁻⁶ .D	Working temperature	-20°C~+50°C
Measuring time		Waterproof & dustproof	IP55
Precision measurement	0.5s		
Fast measurement	0.3s		
Tracking measurement	0.25s		
Minimum reading	1mm/0.1mm optional		
Power			
Battery	Li-ion battery,7.4V/3200mAh		
Working hours	≥8 hours		
Compensator			
Type	Integrated dual-axis compensator		
Compensation range	±6'		

Illustrations, descriptions and technical specifications are not binding and may change.

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