α-GEO

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



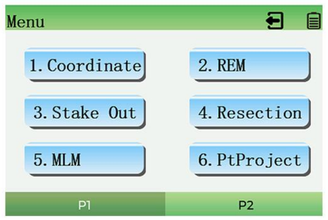
Software Interface



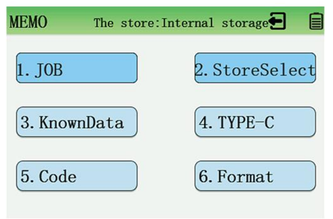
Angle/Distance Measurement



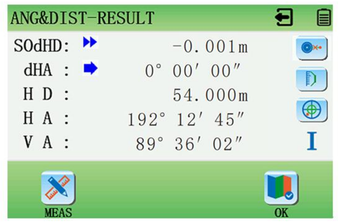
Graphic Menu



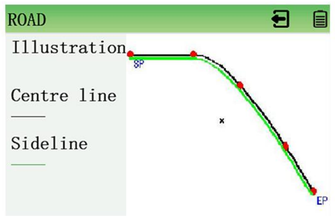
Functions Diversification



Multiple Storage Ways

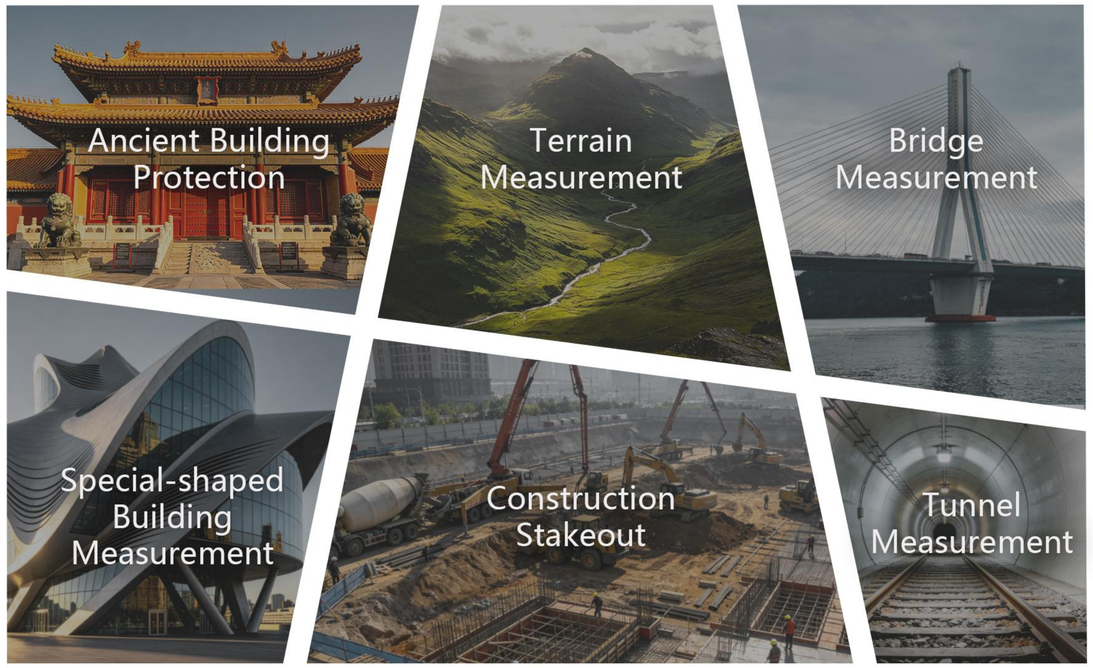


Coordinate Stakeout



Road Calculation Stakeout

Application Scenarios

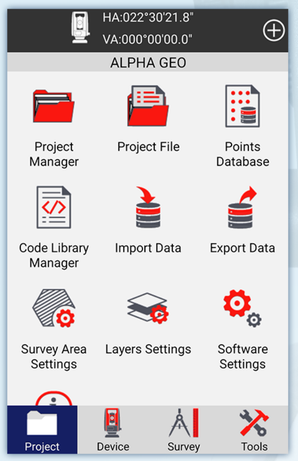


Support

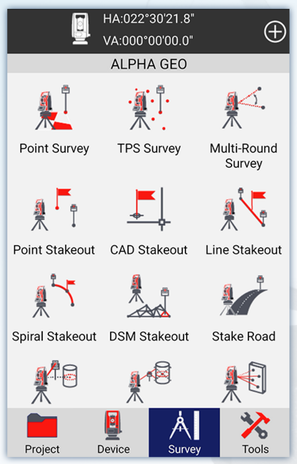
Bluetooth Connection

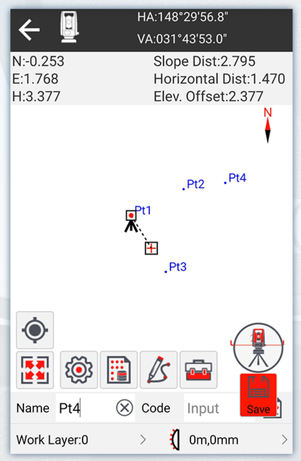
SurPro6.0

ANDROID SOFTWARE











SPECIFICATIONS

Telescope	
Image	Erect
Magnification	30x
Field of view	1°30'
Minimum focus	1m
Effective aperture	50mm
Resolution	3"
Angle measurement	
Angle method	Absolute encoding
Accuracy	2"
Detection method	Diameter 2 channel line array CMOS
Minimum reading	0.1"/1" selectable
Distance measurement	
Measurement range	
Single prism	5000m
Reflective sheet/RP60	1200m
Reflectorless	1000m
Accuracy	2mm+2x10^{-6}.D
Measuring time	
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'

Data storage	
Memory	30000 points
Extension	USB-HOST
Data transmission	Type-C/RS232C/USB-OTG
Plummet	
Type	Laser plummet
Accuracy	+1.0mm at 1.5m
Spot diameter	2.5mm at 1.5m
Brightness	Adjustable
Other functions	
Keyboard display	Double-sided keyboard
Display screen	6 lines of characters 3.5-inch color screen, resistive touch
Buttons	Numbers/letters/symbols, button backlight
Temperature & air pressure	Automatic correction
External power	DC7.5V-DC12V
Weight	6.0kg
Working temperature	-20°C~+50°C
Waterproof & dustproof	IP55

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

ALPHA X+







