Specifications »»

Telescope	
Length	156mm
Image	Erect
Objective aperture	Telescope:Φ45mm(meas.dist.:Φ50mm)
Magnification	30×
Field of view	1°30′
Shortest focus distance	1.0m
Angle measurement	
Reading system	Absolute encoder
Angle unit	360°/400gon/6400mil, selectable
Display resolution	1″/5″/10″(or 0.2mgon/1mgon/2mgon)
Accuracy	2″
Distance measurement	
Laser class(IEC60825-1)	
Reflectorless	Class 3R
Reflective sheet/RP60	Class 3R
Prism	Class 1
Measurement range (Good condition)*2	
Reflectorless*3	
Reflectorless	1 to 1000m
Reflective sheet/RP60	1 to 1200m
Single prism	1 to 5000m
Accuracy	
Prism	2mm+2ppm
Reflective sheet/RP60	2mm+2ppm
Reflectorless	2mm+2ppm
Measuring time	
Fine mode	0.5s
Tracking mode	0.3s
Display resolution(m/inch selectable)	0.1mm/1mm
Pressure input range	500hPa to 1500hPa(1hPa steps)
Temperature input range	-40°C to+60°C(1°C steps)
Prism constant correction	-99.9mm to +99.9mm
Compensator	Dual-axis
Range/Setting accuracy	±3′/1″

Level vial sensitivity	
Plate level vial	30″/2mm
Circular level vial	8′/2mm
Laser plummet(Standard)*4	
Accuracy	±1mm/0.8m-1.5m
Spot size	≤2.0mm/0.8m-1.5m
Optical plummet(Factory Optional)	
Accuracy	±0.8mm/1.5m
Image	Erect
Magnification	3×
Field of view	4°
Focus range	0.5m to ∞
Power	
Battery	5200mAh Li-ion Rechargeable
Output voltage	7.4V DC
Continuous operation time	Approx.8 hours(At+20°C)
Charging time(at +20°C)	Approx. 4 hours
Third Party software supported	
Surpro 6.0	
Others	
Display	5.5 inch; Resolution 720*1280
CPU	4-core 64 bit ARM A55 CPU 2GHZ
Memory	4G RAM+32G ROM(8G+128G optional)
Keyboard	15 keys under the display
Interface USB /Type C/Bluetooth/WIFI/ RS-232C(4G module optional)Trigger key/ TF card/Voice output/Buzz output/RTC/ Screen backlight adjustment/ Temperature and air pressure sensor	Supported
Network	(4G optional)
System	ANDROID 11.0
Water and dust protection	IP55(IEC60529)
Operating temperature	-20°C-+50°C
Storage temperature	-40°C-+55°C

* 1 Standard deviation based on ISO17123-3
* 2 Good conditions: no haze, visibility about 40km, no heat shimmer, breeze
* 3 Reflector: White side of Kodak Gray Card with 90% reflective
* 4 Laser plummet mounted on the bottom of the vertical axis

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

α-GEO

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TÜV CE ISO-9001 DNV CERTIFICATED FIRM Certifcate No.QSC-5112

Local Dealer:

α-GEO

Android Total Station

Creates More Possibilities

ALPHA Y

Product Feature

Intelligent operating system

Android 11 system with open platform and strong scalability, which can customize APP according to the needs of different industries

Strong performance , smooth operation

Equipped with quad-core processor, ARM Cortex-A55 architecture, can clocked up to 2GHz

Variety of communication modes

Bluetooth, wifi, USB disk, Type-C, 4G full network (optional)

Extra memory and storage

4G RAM+32G ROM (expandable 8G+128G), running smoothly without lag

HD large screen

720P HD 5.5-inch large screen, 1280 "720 high resolution, clearly visible in strong light

Super endurance, efficient intelligence

Large capacity battery and intelligent power management support long working time and single and double side switching display

Advanced angle measurement system

Design of CCD array angle measurement system to effectively eliminate system errors

Multifunctional android measurement software

The new Android measurement software Surpro6.0 with rich measurement programs, easy to complete the internal and external business measurement

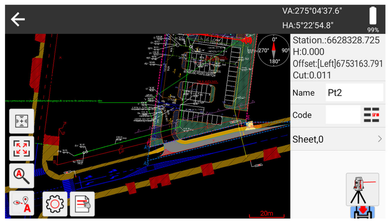
Convenient and fast data transfer

Easily import and export Csw/txt/dat files, support CAD drawing import, CAD lofting, and OTA upgrade

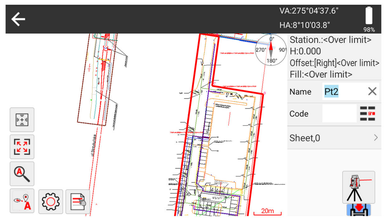
Graphical stake out, clear at a glance

Supports CAD graphics stake out, making stake out more efficient

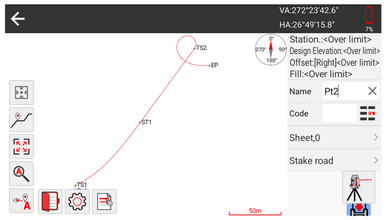
Software Interface



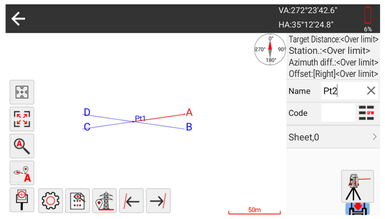
CAD Stakeout



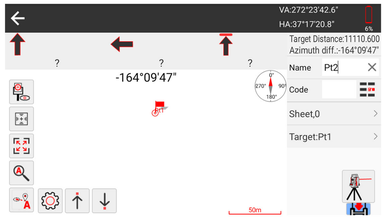
CAD Mapping



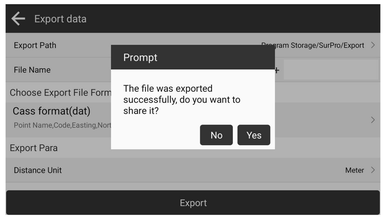
Road Stakeout



Tower Stakeout



Point Stakeout



Data Share