#### **SPECIFICATIONS**

Channels	
Ondi in olo	1698
GPS	L1C, L1C/A, L2C, L2P(Y), L5
GLONASS	
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GALILEOS	E1. E5a. E5b. E6. AltBOC*
SBAS	I 1*
IRNSS	1.5*
QZSS	
MSS L-Band	
Positioning Output Rate	
Initialization Time	
Initialization Reliability	> 99.99%
Positioning Precision	
Code differential GNSS positioning	Horizontal: 0.25 m + 1 ppm RMS
3	Vertical: 0.50 m + 1 ppm RMS
GNSS Static	
CINCO Citation	Vertical: 3.5 mm + 0.5 ppm RMS
Static (Long Observation)	Horizontal: 2.5 mm + 0.1 nnm RMS
Static (LOTING ODSETVATION)	Vertical: 3 mm + 0.4 ppm RMS
Rapid Static	
Rapid Static	
	Vertical: 5 mm + 0.5 ppm RMS
PPK	Horizontal: 3 mm + 1 ppm RMS
	Vertical: 5 mm + 1 ppm RMS
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS
	Vertical: 15 mm + 1 ppm RMS
RTK(NTRIP)	Ḥorizontal: 8 mm + 0.5 ppm RMS
	Vertical: 15 mm + 0.5 ppm RMS
Laser measurement	1 cm + 5 mm/m
SBAS Positioning	Tvpicallv<5m 3DRMS
RTK Initialization Time	
IMU Accuracy	
IMU Tilt Angle	Accuracy within 120°
<u> </u>	•
Hardware Performance	424(-)70(1)
Dimension.	134mm(φ)×79mm(H)
Weight	860g (battery included)
Material	Magnesium aluminum allov shell
Operating Temperature	iviagnosiam alaminam alloy sholl
Operating remperature	45℃~+75℃
Storage Temperature	45℃~+75℃ 55℃~+85℃
Storage Temperature	45°C~+75°C 55°C~+85°C 100% Non-condensing
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Communication RangeTypically 8-10km with Farlink protocol	,
(12-15km in optimal condition)	
Bluetooth 3.0/4.2 standard Bluetooth 3.0/4.2 standard Bluetooth 2.1 + EDF	
NFC CommunicationSuppor	
Modem	
Data Storage/Transmission	
Storage	€
Support automatic cycling storage	Э
Support external USB storage (OTG The customizable sample interval is up to 20Hz	,
Data TransmissionPlug and play mode of USB data transmission	
Supports FTP/HTTP data download	b
Data FormatStatic data format: STH, Rinex2.01, Rinex3.02, etc	
Differential data format: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2	
GPS output data format: NMEA 0183, PJF	
plane coordinate, Binary code	
Support: VRS, FKP, MAC, fully suppor	
NTRIP protoco	ı
Sensors	
IMUBuilt-in IMU, calibration-free, 120 Degrees CameraFront Camera: 8MP, Bottom Camera: 2MP	t
(Live View AR stakeout	
`	,
Laser	)
Electronic Bubble Controller software can display electronic	
bubble, checking leveling status of the	
carbon pole in real-time	
ThermometerBuilt-in thermometer sensor, intelligen	
temperature control technology, monitoring	-
and adjusting the receiver temperature  User Interaction	<del>}</del>
Operating SystemLinux	K
Buttons	
Indicators Data and power indicator	S
Web Interaction	R
connection, users can monitor the receive	
status and change the configuration	S
Voice Guidance Chinese/English/Korean/Spanish/Arabid	اد
Portuguese/Russian/Turkish/French/Italian	1/
Secondary Development Provides secondary development package	Э,
and opens the OpenSIC observation dat	a
format and interaction interface definitio	
Cloud Service	
firmware updates, online registers, etc	
minimaro apaatos, offinio regiotore, etc	

\*Reserve for future upgrade.

Remarks: Measurement accuracy and operation range might vary due to atmospheric conditions, signal multipath, obstructions, observation time, temperature, signal geometry and number of tracked satellites. Specifications subject to change without prior notice.

1.Actual battery life can vary depending on usage patterns and other factors. The listed parameter was obtained under controlled testing conditions.





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# **Laser Measurement**

# — Four Advantages to Add Your Productivity

# Measure More & Farther, in shorter time



With laser measurement, ALPS2 has a broader working range and fewer blind spots, enabling remote measurements in areas with poor GNSS signal quality. Previously challenging spots, like spaces under rooftops and areas with obstacles, are now easily measurable.

# Measure at Day or Night, by Your Need



Laser measurement allows surveyors to collect target point at a dark environment such as night or semi-indoor environment. It also can measure distance indoor.

#### Measure the Unreachable, break the limit

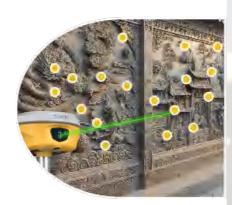


Laser measurement allows surveyors to collect target point at a position that traditional RTK can not reach directly, such as point on the surface of a wall, a tree, or sill of window, and the small space that surveyors can not step in.

# Keep You Away from Dangers, Safe than Ever



Laser Measurement help users mitigate risks when surveying near hazardous areas, such as busy roads and sea or lakes, ensuring surveyors' safety. A secure working approach is not only a personal requirement but also essential for the well-being of your family.









# Laser Stakeout & CAD AR Stakeout — Lift Your Efficiency to A New Level

# LASER > STAKEOUT

#### To Overcome the Difficulty

Lasers bring more possibilities to staking out.

Now, when you encounter tall obstructions near the target point in the field that block satellite signals, you will no longer be helpless.

Please just enable laser and continue the work.

Additionally, when it is inconvenient to carry instruments to the target point, you can also choose to stake out by laser from a distance of several meters away.





### **Simplify Your Workflow with CAD**

ALPS2 can integrate the content of CAD drawings with real-world scenes, helping you stakeout targets more quickly.

The front camera assists surveyors in finding a general direction from a distance and understanding the distribution of surrounding features. The bottom camera enables precise stakeout as you approach the target.

With dual camera's help, your stakeout will be easier and more intuitive.

