SPECIFICATIONS

GNSS Features	
Channels	1698
	<u>L</u> 1C, L1C/A, L2C, L2P(Y), L5
GLONASS	G1, G2, G3
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GALILEOS	E1, E5a, E5b, E6, AltBOC*
SBAS	L1*
	L5*
	L1, L2C, L5*
	Reserve
Positioning Output Rate	1Hz~20Hz
Initialization Time	<pre>< 10s > 99.99%</pre>
Positioning Precision	Harizantal: 0.25 m ± 1 nnm PMS
Code differential GNSS positioning	Horizontal: 0.25 m + 1 ppm RMS Vertical: 0.50 m + 1 ppm RMS
CNICC Ct-ti-	Horizontal: 2.5 mm + 0.5 ppm RMS
GNSS Static	Vertical: 3.5 mm + 0.5 ppm RMS
Static (Long Observation)	Horizontal: 2.5 mm + 0.1 ppm RMS
Static (Long Observation)	Vertical: 3 mm + 0.4 ppm RMS
Panid Static	Horizontal: 2.5 mm + 0.5 ppm RMS
Napiu Static	Vertical: 5 mm + 0.5 ppm RMS
DDK	Horizontal: 3 mm + 1 ppm RMS
11 K	Vertical: 5 mm + 1 ppm RMS
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS
TTTT(OTIT)	Vertical: 15 mm + 1 ppm RMS
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS
	Vertical: 15 mm + 0.5 ppm RMS
Laser measurement	
	t mm/m
SBAS PositioningRTK Initialization Time	Typically<5m 3DRMS2~8s
SBAS PositioningRTK Initialization TimeIMU Accuracy	Typically<5m 3DRMS 2~8s
SBAS PositioningRTK Initialization TimeIMU Accuracy	Typically<5m 3DRMS
SBAS Positioning	Typically<5m 3DRMS 2~8s 8 mm+0.7 mm/°tilt Optimal accuracy within 120°
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SBAS Positioning RTK Initialization Time IMU Accuracy IMU Tilt Angle Hardware Performance Dimension Weight Material Operating Temperature Storage Temperature	
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SBAS Positioning. RTK Initialization Time. IMU Accuracy. IMU Tilt Angle. Hardware Performance Dimension. Weight. Material. Operating Temperature. Storage Temperature. Humidity. Waterproof/Dustproof.	Typically<5m 3DRMS 2~8s 2~8s 8 mm+0.7 mm/°tilt Optimal accuracy within 120° 134mm(φ)×79mm(H) 860g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing JP68 standard
SBAS Positioning. RTK Initialization Time. IMU Accuracy. IMU Tilt Angle. Hardware Performance Dimension. Weight. Material. Operating Temperature. Storage Temperature. Humidity. Waterproof/Dustproof.	
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SBAS Positioning. RTK Initialization Time. IMU Accuracy. IMU Tilt Angle. Hardware Performance Dimension. Weight. Material. Operating Temperature. Storage Temperature. Humidity. Waterproof/Dustproof. Shock/Vibration. Power Supply. Battery. Inbu Battery Life¹. Communications I/O Port.	Typically<5m 3DRMS 2-8s 8 mm+0.7 mm/°tilt Optimal accuracy within 120°
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SBAS Positioning. RTK Initialization Time. IMU Accuracy. IMU Tilt Angle. Hardware Performance Dimension. Weight. Material. Operating Temperature. Storage Temperature. Humidity. Waterproof/Dustproof. Shock/Vibration. Power Supply. Battery. Inbut Battery Life¹. Communications I/O Port. Internal UHF. Frequency Range.	Typically<5m 3DRMS 2-8s 8 mm+0.7 mm/°tilt Optimal accuracy within 120°

Communication RangeTypically 8-10km with Farlink protocol,
(12-15km in optimal condition)
Bluetooth 5.0, Bluetooth 3.0/4.2 standard,
Bluetooth 2.1 + EDR
NFC Communication
Modem
Data Storage/Transmission
Storage
Support automatic cycling storage (OTG)
The customizable sample interval is up to 20Hz
Data TransmissionPlug and play mode of USB data transmission
Supports FTP/HTTP data download
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, PJK
plane coordinate, Binary code
Support: VRS, FKP, MAC, fully support
NTRIP protocol
Sensors
IMU Built-in IMU module, calibration-free, 120°
Camera: Wideo Shooting Camera: 8MP (can be
used in AR stakeout) AR stakeout camera: 2MP
Laser
Electronic BubbleController software can display electronic
bubble, checking leveling status of the
carbon pole in real-time
ThermometerBuilt-in thermometer sensor, adopting
intelligent temperature control technology,
monitoring and adjusting the receiver temperature
·
User Interaction Operating SystemLinux
Buttons
Indicators
Display
Web Interaction With access to Web UI via WiFi or USB
connection, users can monitor the receiver
status and change the configurations Voice Guidance
Portuguese/Russian/Turkish/French/
Italian/Arabic
Secondary Development Provides secondary development package,
and opens the OpenSIC observation data
format and interaction interface definition
Cloud ServiceThe powerful cloud platform provides
online services like remote management, firmware updates, online registers, etc.
iiiniware upuates, oriiine registers, 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.

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



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



Video Shooting & Laser Measurement — Add Them Together to Multiply Your Power

Measure More & Farther, in shorter time

You are More Efficient than Ever



INNO6 allows you to shoot a group of photos or videos in realtime, obtaining coordinates for hundreds of points within minutes. It outpaces traditional RTK in data acquisition speed.



With laser measurement, INNO6 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.



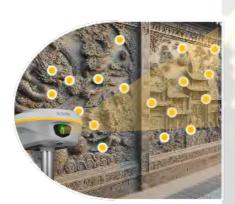
You are More Versatile than Ever



Image data, stored for an extended period, is reusable at any time. These capabilities are especially well-suited for unique tasks, such as documenting accident scenes and excavation sites for urban public facilities.



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.







Large Area or Tiny Space? INNO6 Suits Both

You are More Flexible than Ever

Video Shooting allows surveyors to remotely measure points up to 10 meters or more (15m in ideal conditions), eliminating the need to physically approach each point. This method significantly reduces physical effort when surveyor is working in a large area.



Laser Measurement allow users to realize a very quick non-contact measuring when there is only very limited space to move, such as a narrow alley. In this kind of scenario, laser is faster than video shooting.





INNO6 Keeps You Away from Dangers

You are Safer than Ever

Video Shooting and 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 >

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

INNO6 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.



Diverse Applications Prepared for Your Future Needs

Best Hardware To Win the Challenges



CONSTRUCTION



Work Faster, Work Better

Through the further development of laser measurement, INNO6 can directly measure road lengths from a distance, obtain area measurements for defined regions, calculate earthwork volumes, and more. This expands from simple point measurements to comprehensive calculations, helping you complete measurements more quickly in construction projects.



FORESTRY



Save Labor, Save Time

In forestry, INNO6 combines laser measurement with eccentric measurement to help users quickly calculate the center position of tree trunks. When paired with 3D modeling, it not only provides intuitive and visual results, making complex data easier to understand and analyze, but also allows for the integration of data from other sources, resulting in more diverse and comprehensive outcomes.



Top Class Image Sensor 8MP Camera Video Shooting CAD AR Stakeout 3R Green Laser Laser Measurement & Stakeout SOUTH 2MP Camera CAD AR Stakeout

Best Hardware —To Win the Challenges



