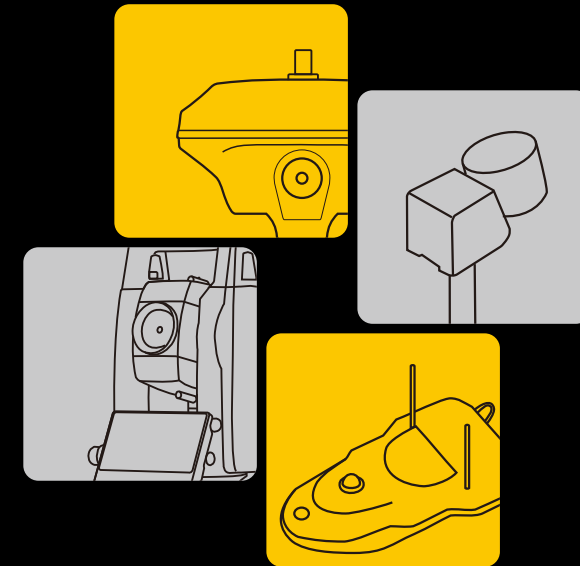




SOUTH Surveying & Mapping

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# General Catalogue 2024












(V.2024MAR)

- Established in **1989**, **25** Years of Overseas Business Experience
- A Chinese **Giant** Manufacturer Specializing in Geo-information Industry
- **5** World-class Production Bases Located in 4 Cities
- Plenty of the Very **First** China-made Survey Instruments (eg. TS, GPS, CORS, etc.) from Here
- Always Top Listed Among the Top 100 China's Geo-information Enterprises and Ranked **No.1** Several Times
- Complimented as the **National Brand** of Survey Equipment in 2009 by the Former Minister, Ministry of National Resources
- A Very Complete **Range** of Survey Products with Hardware and Software Both
  - 743,600+** Total Stations Sold Worldwide
  - 528,000+** GNSS Receivers Sold Worldwide
  - 8,600+** CORS in Service Worldwide
- A Variety of **GIS** Solutions and Hundreds of Successful Stories
- Key Breakthroughs Featuring **Unique** in Recent Years
- A Dedicated Survey **Services** Provider in Addition to Survey Supplies
  - 25,700+** Drone Flights
  - 240,790+** sq.km Aerial Coverage
  - 133,100+** km Mobile LiDAR Mapping
  - 32,071,080+** sq.m Building Elevational Scan
  - 38,537,000+** sq.m SLAM Mapping
  - 69,300+** Spots for Monitoring
  - 820+** Job Services
  - (Since 2017)





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When Variety Meets Diversity

1



GNSS

RTK Receiver

- 1.01 INNO8
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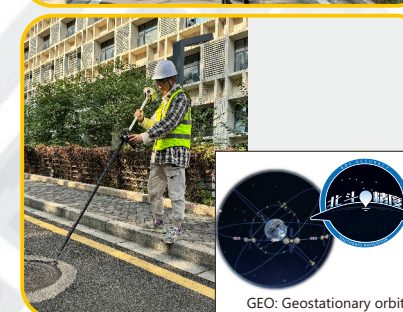
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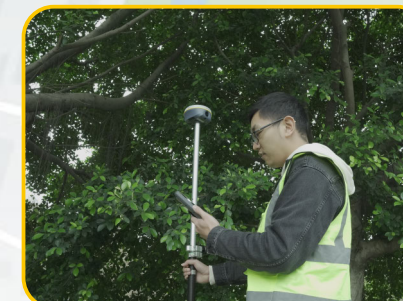
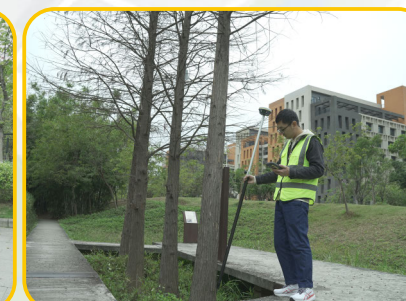
## INNO8 Dual-cam Flagship Masterpiece

- Visual positioning and AR stake-out on board
- Ready for online/off-line/post process and 3D modeling
- 1598/1698/1760 channels available, with upward antenna design
- Ultra-large HD touch screen 1.39-inch, color LCD
- 3W internal UHF, Farlink 2.0 radio datalink technology
- 10000 mAh internal battery and 64 GB internal memory



## Insight V3 Lightweight Dual-cam Mainstay

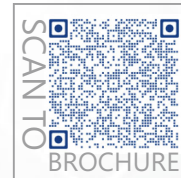
- Visual positioning and AR stake-out on board
- Ready for online/off-line/post process and 3D modeling
- 1698 channels and improved multi-satellite positioning algorithm
- 2W internal UHF, Farlink 2.0 radio datalink technology
- 1.14-inch screen display, yet 860 grams only
- 6800 mAh internal battery and 16 GB internal memory





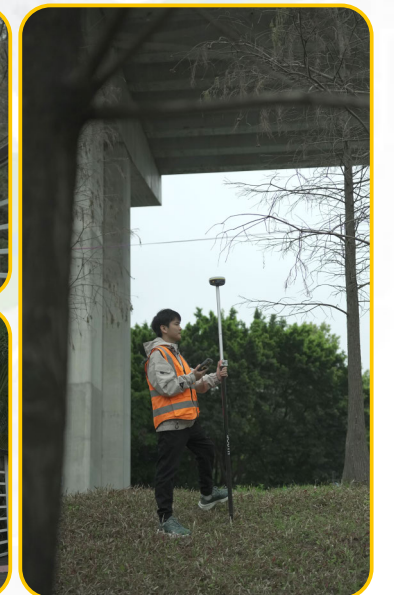
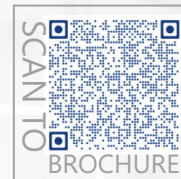
## INNO7 Multi-functional Large Screen Receiver

- 336/1598 channels available, with upward antenna design
- RTX XTRa technology to deliver cm-accurate positioning by SSR
- Ultra-large HD touch screen 1.54-inch, color LCD
- 3W internal UHF, Farlink 2.0 radio datalink technology
- 2 nos. 3400 mAh hot-swappable battery and 64 GB internal memory



## Insight V2 Entry-level AR Stake-out Starter

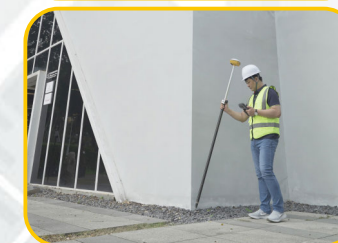
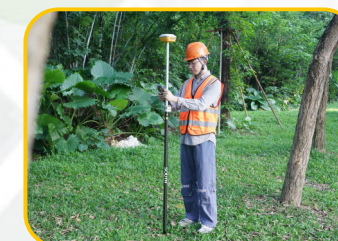
- Single-cam to enable AR stake-out on board
- 1598 channels and improved multi-satellite positioning algorithm
- 2W internal UHF, Farlink 2.0 radio datalink technology
- Type-C interfacing for web control access and fast recharge
- 6800 mAh internal battery, power indication without switching on even





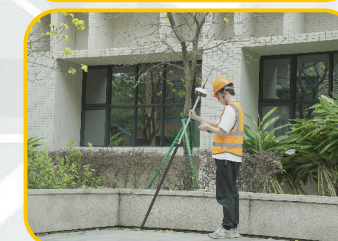
## Galaxy G4 Enhanced Fundamental Mainstay

- Features ultra-fast fixed solutions within second(s) under dense canopies
- 1698 channels and improved multi-satellite positioning algorithm
- 2W internal UHF, Farlink 2.0 radio datalink technology
- 4th generation IMU technology, calibration-free and nearly all-time usable
- 6800 mAh internal battery, internal memory extendable up to 128 GB



## Galaxy G5 Designed for Powerful Base

- 1760 channels for full constellation tracking
- 3W internal UHF, Farlink 2.0 radio datalink technology
- Upward antenna but indented design, IP 68 rating
- Ultra-large HD touch screen 1.3-inch, color LCD
- 10000 mAh internal battery, internal memory extendable up to 64 GB



## Galaxy G3 Supercharged Pocket-size Receiver

- 1598/1760 channels available
- 2W internal UHF, Farlink 2.0 radio datalink on board
- A lightweight but powerful unit, 790 grams only
- Fixed solutions kept at centimeter level for minutes while corrections are missing
- 6800 mAh internal battery, power indication through LED lights

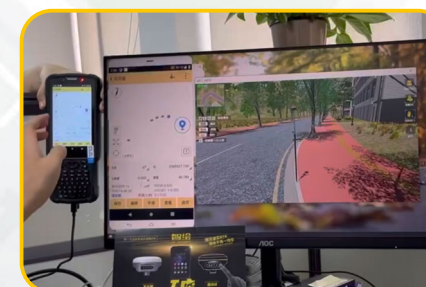




## Galaxy G2 VR Combo Package Model



- 1598/1760 channels available
- 2W internal UHF, Farlink 2.0 radio datalink on board
- VR combo package available for modern survey training
- Simple but elegant, 4G telecom module on board, 850 grams only
- Fixed solutions kept at centimeter level for minutes while corrections are missing



## Galaxy G7 Radio & Telecom Module On Board



- 1598/1760 channels available
- 2W internal UHF, Farlink 2.0 radio datalink on board
- Simple but elegant, 4G telecom module on board, 970 grams
- Fixed solutions kept at centimeter level for minutes while corrections are missing
- 6800 mAh internal battery, internal memory extendable up to 64 GB



## Galaxy G9 A Smart Wireless Model

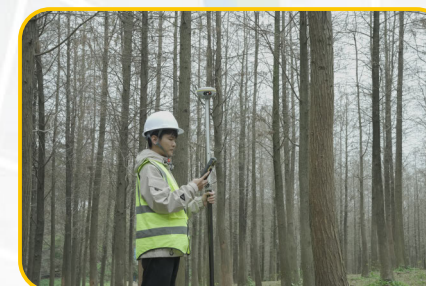


- 1598/1760 channels available
- 3W internal UHF, Farlink 2.0 radio datalink technology
- One button for all operations, power indication without switching on even
- Fixed solutions kept at centimeter level for minutes while corrections are missing
- 2 nos. 3400 mAh hot-swappable battery, working time up to 15 hours max.














## Galaxy G7Q An Economical Receiver Model

- 1598 channels available
- 2W internal UHF, Farlink 2.0 radio datalink technology
- One button for all operations
- Fixed solutions kept at centimeter level for minutes while corrections are missing
- 6800 mAh internal battery, working time up to 18 hours max.





## Comparison

Model	Inno8	Inno7	Insight V3	Insight V2	G2	G3	G4	G5	G7	G7Q	G9
Illustration											
VR Training		VR Program			VR Combo						
Photogrammetry	√		√								
AR Stake-out	√		√	√							
Channel	1598/1698/1760	336/1598	1698	1598	1598/1760	1598/1760	1698	1760	1598/1760	1598	1598/1760
Radio Antenna	Upward	Upward						Upward			
Internal Radio	1/2/3 W	1/2/3 W	2 W	2 W	2 W	2 W	2 W	1/2/3 W	2 W	2 W	1/2/3 W
4G Telecom	√	√	√		√		√	√	√		√
Tilt Survey	√	√	√	√	√	√	√	√	√	√	√
Touch Screen	√	√						√			
LCD Screen			√								
Net Weight	1.2 kg	1.2 kg	0.86 kg	0.8 kg	0.85 kg	0.79 kg	0.89 kg	1.35 kg	0.97 kg	0.9 kg	1.3 kg
Inbuilt Battery	10000 mAh		6800 mAh	6800 mAh	6800 mAh	6800 mAh	6800 mAh	10000 mAh	6800 mAh	6800 mAh	
Swappable Battery		2 * 3400mAh									2 * 3400 mAh
Internal Memory	64 GB	64 GB	16 GB	4 GB	8 GB	4 GB	4 GB	16 GB	4 GB	4 GB	16 GB



## H6 Rugged Data Collector

- Android 12 OS, 64GB ROM, fast than ever
- 5-inch touch screen with full keypad
- Seamlessly integrated with Google framework
- A durable and reliable fieldwork tool



## H10 Rugged Data Collector

- User-friendly subtractive design approach
- Android 11 OS, Bluetooth 5.0, QC 3.0, and GMS on board
- 5.5-inch touch screen, shortcut keys standby aside
- Features simplicity, clarity and convenience



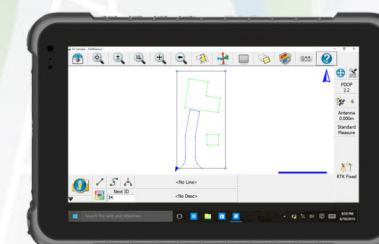
## N80/N80T Industrial-level GNSS Tablet

- Tailor-made to Geodesy, GIS and other related industries
- GNSS board, sensitive antenna, 5G telecom module on board
- Android 12 OS, 128 GB ROM, multi-touch screen, QC 3.0, GMS
- IP67 rating, a portable high-precision tablet PC



## HR842 New Ultra-rugged Tablet

- Microsoft Windows 10 OS, ready to install FieldGenius and SurvCE
- Multi-threading applications available on board, empowered by high configuration
- 8-inch touch screen, 7-8 hours endurance with Wi-Fi
- IP67 rating, a robust tablet PC to challenge complex environments





## NET S10 A Full-feature CORS Receiver



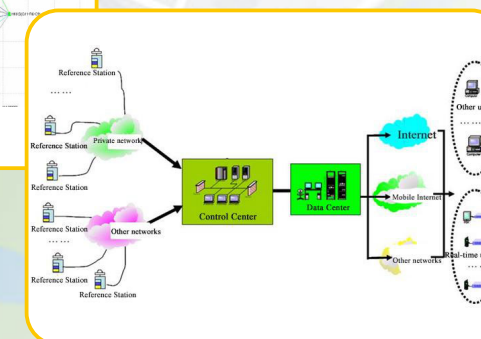
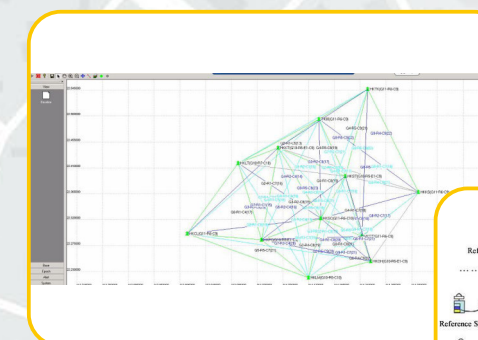
- 336/1598 channels available, supports single BDS solution
- Ready for Bluetooth, Wi-Fi, radio, and 4G telecom
- LCD screen to display complete info of the receiver status
- 64 GB internal memory, extendable to 1 TB max.
- Supports encrypted algorithm SM2, SM4, and third-party encryption via TF card
- 8 independent paths available for data record simultaneously, ready to set at different frequencies
- Continuous recording enabled by auto-delete old files upon memory full
- 10000 mAh internal battery, working hours up to 20+ hours
- 3 nos. separate power supply interfaces to ensure uninterrupted operation
- IP68 rating, best for unattended complex environments



## NET S10mini An Economical CORS Receiver



- Enjoys the same functionalities as the model S10 mentioned above only except,
- 336/1598 channels available
- A lightweight unit, 1.2 kg only
- 8 GB internal memory, extendable to 64 GB max.
- Web interface access to control only, no LCD screen on board
- External frequency scale port and TF card slot omitted



## CR3(G3) Choke-ring Antenna



- Works outdoors to connect an indoor CORS receiver
- Designed for all-weather conditions and harsh environments
- 3rd generation, rejects LHCP signal for multipath mitigation as countermeasures
- 65dB antenna gain, and  $50 \pm 2$  dB LNA gain
- Market-proven in hundreds of projects internationally





## S1 A Powerful External UHF Radio

- User-friendly graphical interface, informative and intuitive
- An innovative radio frequency circuit design
- Ultralong range communication, 25-30 km against 25 W
- Features stable datalink powered by years of foundation and expertise
- 9600/19200 air baud rate



## S6(H) A Powerful External UHF Radio

- User-friendly graphical interface, informative and intuitive
- An innovative radio frequency circuit design
- Ultralong range communication, 25-30 km against 5/22/30 W
- Features stable datalink powered by years of foundation and expertise
- 9600/19200 air baud rate

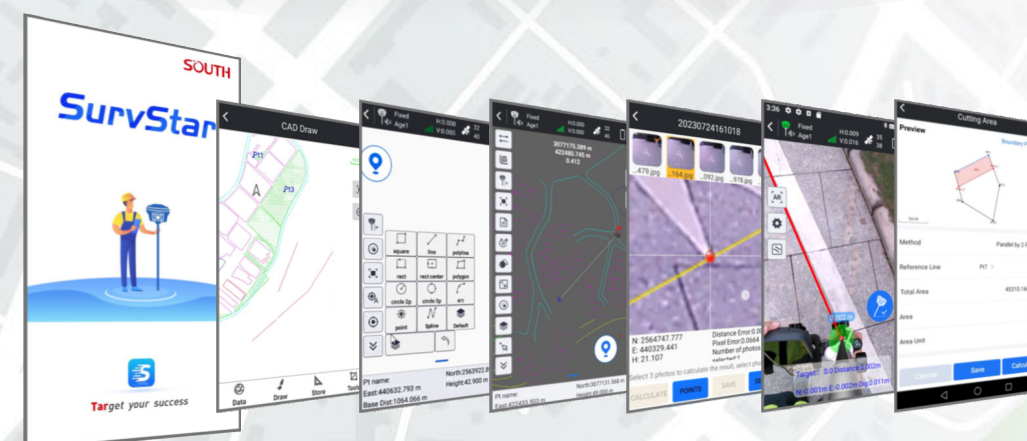


## SurvStar RTK Fieldwork Software



### Graphical

- CAD drawing on site, one-stop fieldwork solution
- CAD layout directly with map drawings, no coordinate transformation needed
- Meas&Map, to perform mapping while measuring points, easy one-shot



### Image-based

- Photogrammetry on board, to measure inaccessible points out of reach via captured images or video streams. Image data could be further used for 3D modeling.
- AR stake-out available, by point/line/CAD. Target points could be easily reached with the visualized guide.



### Transboundary

- GIS data acquisition, to work with high-precision tablet PC (eg. N80T)
- Bathymetry application, to go with echo sounder for water depth measurement. Bluetooth or Wi-Fi to connect.
- Total Station Link, to perform engineering survey with total station, switchable between total station and GNSS RTK in the same software.



## SurvX RTK Fieldwork Software

- Designed for both regular data controllers and Android smart devices
- Features simplicity, integrity, and market reputation
- A powerful and reliable kit for RTK fieldwork operation



## Field Genius RTK Fieldwork Software

- Provides a familiar and dependable experience through its code-free linework functionality
- Easy creation and editing of linework without the necessity to modify point descriptors
- An alternative to specific demands in particular markets



## SGO Geomatics Office Software

- Tailor-made to survey industry, a power station for geomatics data - Ready to edit, process, and analyze data from GNSS receivers, total stations, and levels
- Supports CAD, cloud services, online maps, road design, GIS/image process, project analysis, earthwork calculation, data quality check, and debugging, etc.



## NRS CORS Service Software

- Includes NRS-Net, NRS-Station, NRS-Server
- Merges the advantages of VRS, FKP and MAX
- Market-proven algorithm to deliver differential corrections

