



T6 GNSS Receiver

Professional GNSS Receiver Uncompromising Accuracy and Reliability

Key Features

Ultra-Fast and Reliable Fixed Solutions

Equipped with our newly engineered high-gain GNSS antenna, the T6 maximizes the signal reception of GLONASS and Galileo satellites.

This ensures that even in the most demanding surveying environments, the T6 consistently tracks more satellites than standard receivers—locking in precise, centimeter-accurate positioning in just a few seconds.

Work Anytime, Anywhere with L-Band

By receiving correction delivered directly from L-band satellites, T6 allows you to achieve 10 to 20 centimeter-level accuracy with only one rover on hand when base receiver or CORS service is not accessible in remote areas. This function is based on Galileo HAS and BDS PPP, please apply the registration code from local distributors.

Advanced Farlink UHF Radio Technology

The T6 is equipped with our patented Farlink radio technology, delivering superior telemetry performance. When operating as a UHF base station, it transmits RTK correction data across extended distances, achieving an operational range of 10 to 15 km under optimal conditions.

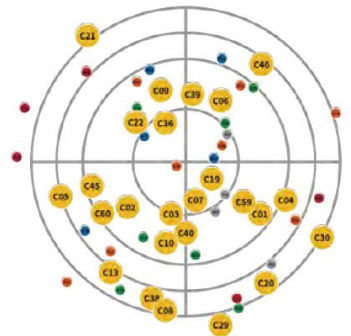
Additionally, the integration of the latest Farlink Pro protocol (introduced in 2025) provides enhanced signal stability to overcome highly challenging surveying environments.

Efficient IMU Tilt Survey

Equipped with a calibration-free IMU, the T6 delivers exceptionally high sensor availability. The system seamlessly maintains its functional status without interruption, regardless of dynamic movements such as pole rotation or rapid changes in receiver attitude.

Extended Autonomy & IP68 Durability

An intelligent power management system delivers 15 to 18 hours of continuous rover operation, supported by versatile USB Type-C charging. Engineered for the harshest environments, the T6 features a reinforced, shock-resistant chassis with an IP68 rating against water and dust.



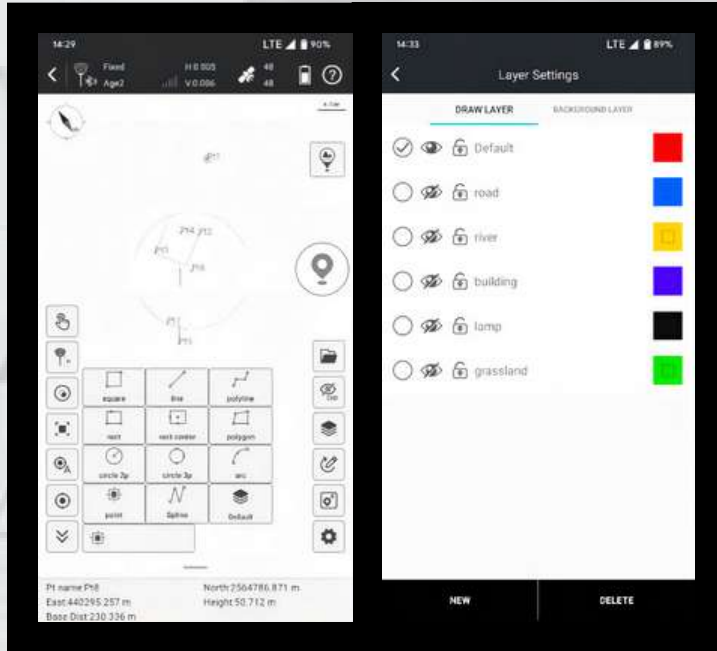
SPECIFICATIONS

GNSS Features		Communications	
Channels	1598	I/O Port	4G SIM Card Slot
GPS	L1, L1C, L1C/A, L2C, L2P(Y), L5,		5-PIN LEMO interface (external power port + RS232)
GLONASS	G1, G2, G3, L1P, L1C/A, L2P, L2C/A, L3		Type-C interface
BDS	B1I, B2I, B3I, B1C, B2a, B2b		(charge + OTG+ Ethernet)
GALILEO	E1, E5A, E5B, E6, AltBOC*		UHF antenna interface
SBAS	L1*	Internal UHF	2W Radio receiver / transmitter, repeater function
IRNSS	L5*	Frequency Range	410-470MHz
QZSS	L1, L1C/A, L2C, L5*	Communication Protocol	Farlink, Farlink Pro, Trimtalk, SOUTH, Satel
MSS L-Band*	BDS PPP & Galileo HAS	Communication Range	Typically 5-8km with Farlink protocol, up to 15km
Positioning Output Rate	1Hz~20Hz	Bluetooth	Bluetooth 3.0/4.1 standard, Bluetooth 2.1 + EDR
Initialization Time	< 10s	NFC Communication	Support
Initialization Reliability	>99.99%	Modem	802.11 b/g/n standard
Positioning Precision		Data Storage/Transmission	
Code Differential Positioning	Horizontal: 0.25 m + 1 ppm RMS Vertical: 0.50 m + 1 ppm RMS	Storage	4GB SSD internal storage, extendable up to 64GB
GNSS Static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 3.5 mm + 0.5 ppm RMS	Data transmission	Support external USB storage (OTG)
Static (Long Observation)	Horizontal: 2.5 mm + 0.1 ppm RMS Vertical: 3 mm + 0.4 ppm RMS		The customizable sample interval is up to 20Hz
Rapid Static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS		Plug and play mode of USB data transmission
PPK	Horizontal: 3 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS	Data format	Supports FTP/HTTP data download
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS		Static data format: STH, Rinex2.01, Rinex3.02 and etc.
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS Vertical: 15 mm + 0.5 ppm RMS		Differential data format: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
SBAS Positioning	Typically < 5m 3DRMS	Sensors	
RTK Initialization Time	2~8s	IMU	Built-in IMU module, calibration-free, 60°
IMU Tilt Angle	0°~60°	Electronic bubble	Controller software can display electronic bubble, checking leveling status of the carbon pole in real-time
Hardware Performance		Thermometer	Built-in thermometer sensor, adopting intelligent temperature control technology, monitoring and adjusting the receiver temperature
Dimension	135mm(W) × 135mm(L) × 83mm(H)	User Interaction	
Weight	900g (battery included)	Operating system	Linux
Material	Magnesium aluminum alloy shell	Buttons	Single button
Operating Temperature	-45°C~+75°C	Indicators	Bluetooth, satellites, data, charging and power indicators
Storage Temperature	-55°C~+85°C	Web interaction	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations
Humidity	100% Non-condensing	Voice guidance	Chinese/English/Korean/Spanish/Portuguese/Russian /Turkish/French/Italian
Waterproof/Dustproof	IP68 standard, protected from long time immersion to depth of 1m	Secondary development	Provides secondary development package, and opens the OpenSIC observation data format and interaction interface definition
	IP68 standard, fully protected against blowing dust	Cloud service	The powerful cloud platform provides online services like remote management, firmware updates, online registers, etc.
Shock/Vibration	Withstand 2 meters pole drop onto the cement ground naturally		
Power Supply	6-28V DC, overvoltage protection		
Battery	7.2V, 6800mAh rechargeable Lithium-ion battery		
Battery Life	15h (rover bluetooth mode)		
*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.			

ArcSurv APP

Field Data Collection & Mapping: The Most Advanced is Here

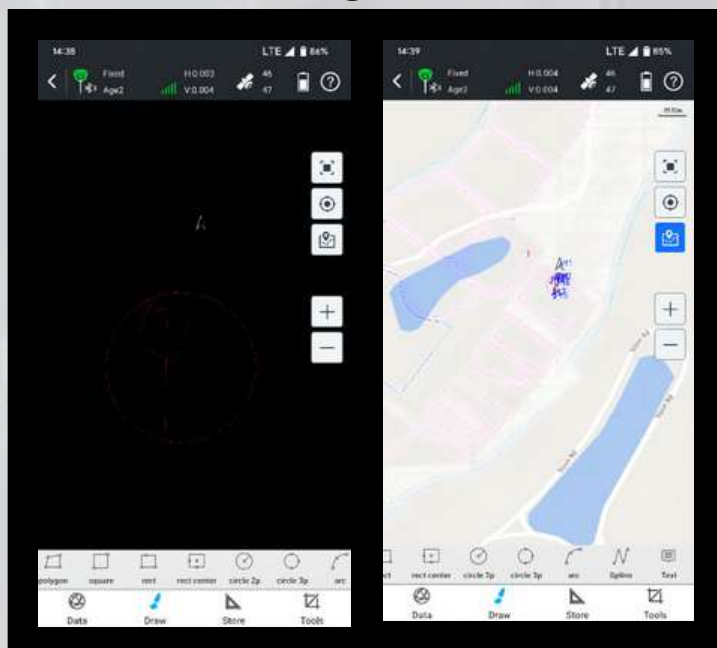
Measure & Draw : Save Time in Field work and Office



This feature allows you to draw the result map while completing point measurements.

- Before measuring points, users can choose the shape of the target object to be measured from 11 preset figures. The software will guide you to measure points in an order and automatically connect lines and complete the drawing of the figure.
- The .dxf or .dwg maps created on-site can be used directly in office work.
- Users can assign measured objects with different attributes, to different layers for measurement and management, making no mistakes.

CAD Draw : Drafting without a PC



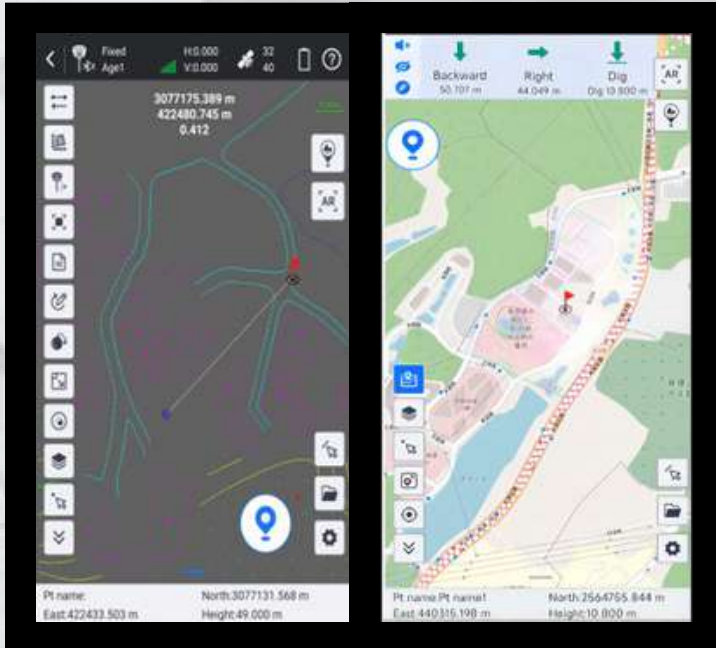
Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- CAD drawing does not require a computer.
- CAD files prepared on office PCs can be edited and managed by users on RTK data collection terminals.
- Drawing tools include up to 11 types of figures and one type of text.

ArcSurv APP

Stakeout: Lighten Your Load, Increase Your Output

CAD Stake-Out : Save Labor Cost and Reduce Errors

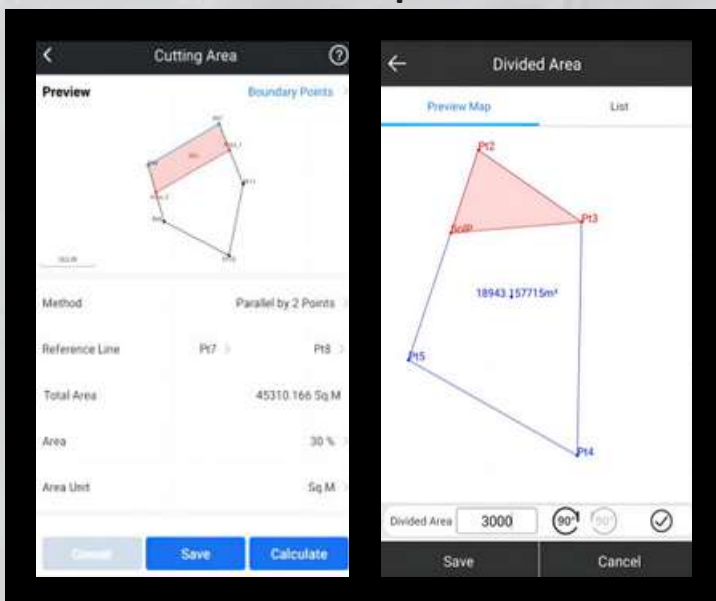


Traditional data collection software requires users to import points or lines to be setout from .csv or .txt files, users need to spend quite a lot of time to edit point and line libraries.

Moreover, for complex shapes such as curves, circles, and polygons, the traditional stake-out process is complicated. Now, our new CAD stake-out program offers a superior solution for surveyors.

- No need for manual editing of point libraries. • Staking-out geometric shape is faster and easier.
- No need for obtaining coordinate files before work. Staking-out can be done with just a CAD drawing.
- Online maps and CAD drawings can be displayed simultaneously, improving accuracy.
- AR guide lines make staking-out more intuitive.

Area Division : Developed for Professional Cadastral Survey and Stake Out

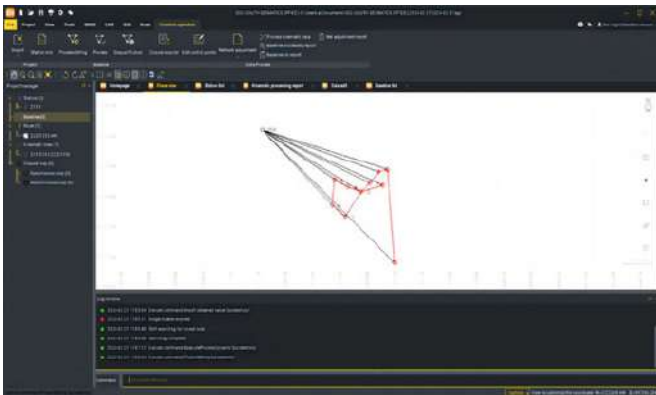
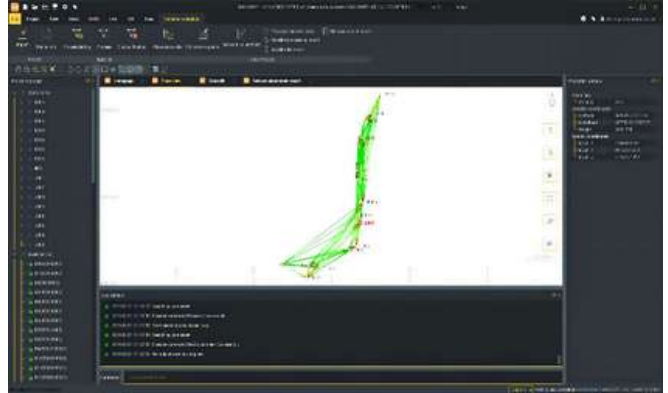
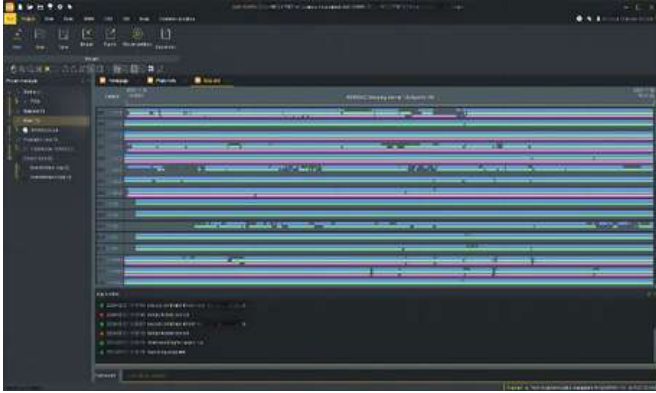


Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- Six methods of division to determine the area division points. The methods are flexible and suitable to different user needs.
- The graphic display is intuitive and understandable.

SANDING Geo Office (SGO)

The Ideal GNSS Data Processor to Advance Your Surveying Capabilities



Data Processing & Reporting

Equipped with state-of-the-art technology, our software streamlines GNSS post-processing to consistently deliver optimal results for surveyors. Users simply import their field data, and the software automatically processes the GNSS baselines. Once the computation is complete, the system instantly generates comprehensive reports.

High Accuracy Guaranteed

Our exclusive RTK Check feature compares RTK and PPK results to automatically determine the most precise coordinates for every target point. By compensating for poor RTK corrections or obstructed PPK observations, this innovative tool guarantees uncompromising accuracy for every survey.

RINEX Import and Export

This feature enables users to import the third party GNSS receiver data into our software and post-process it, by using the industry standard RINEX format.

