



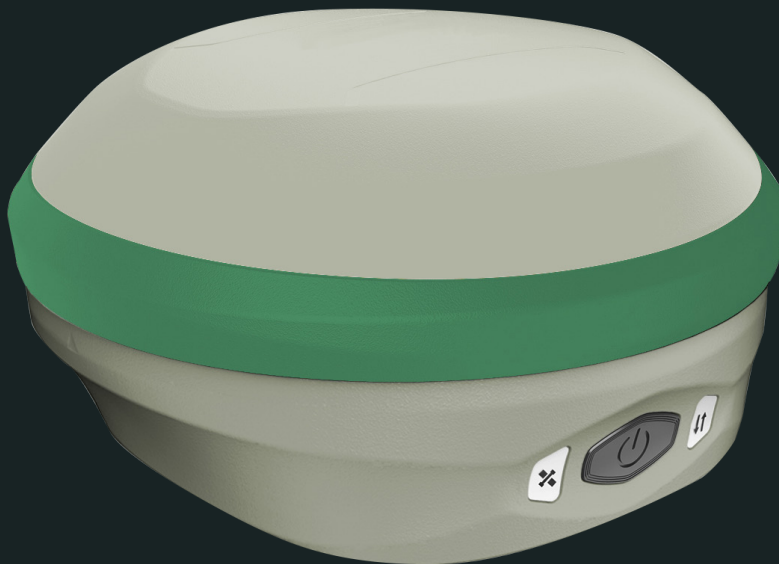
LiBase2 RTK

Ready-to-Use Intelligent Inertial Navigation

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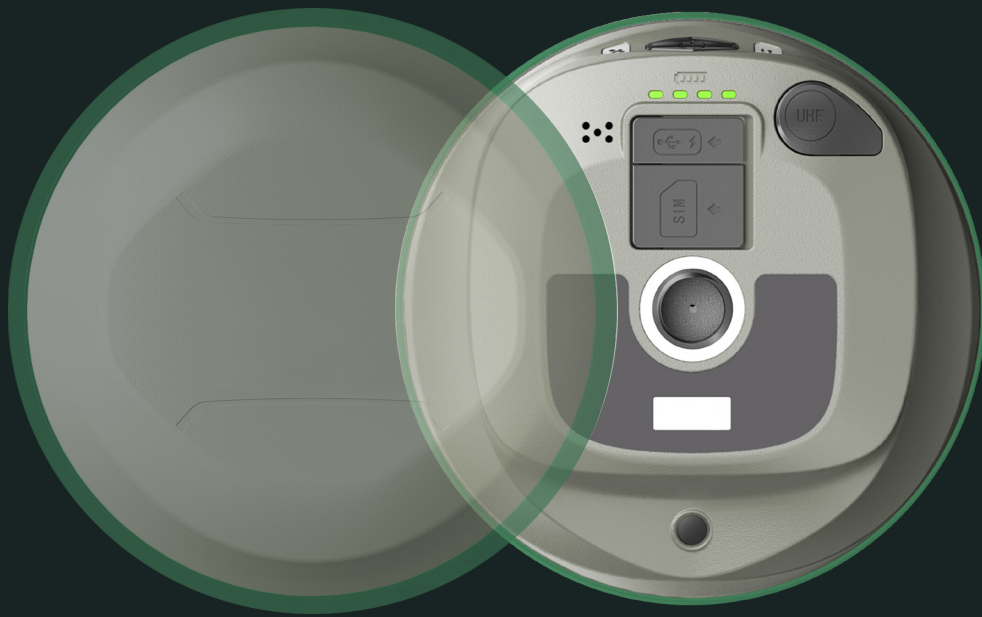
No leveling is required when tilted up to 60°. Points can be measured immediately while maintaining centimeter-level accuracy, significantly improving measurement efficiency.



Full constellation, full frequency, fast locking

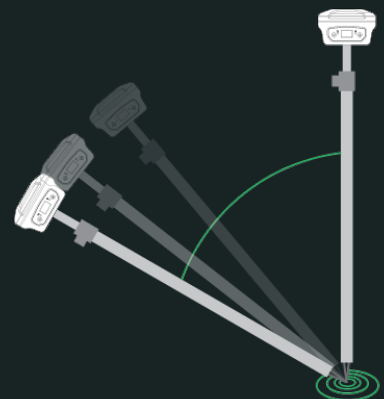


Equipped with high-performance, high-precision GNSS SoC chips, it ensures high-quality signal reception and supports satellite signals from multiple global systems, including GPS, GLONASS, BeiDou, Galileo, QZSS, and SBAS. With full constellation and full frequency signal tracking, it fully supports BeiDou-3 for rapid satellite lock.



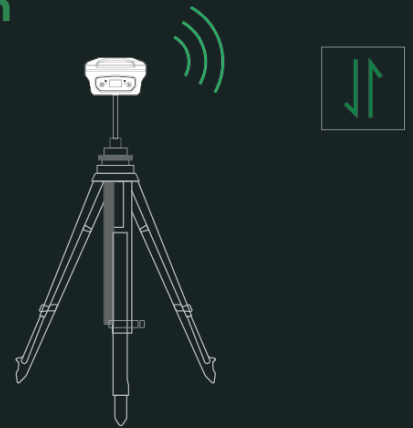
Tilt Compensation with Calibration-Free Inertial Navigation

The fourth-generation inertial navigation tilt measurement technology is immune to electromagnetic interference and eliminates the need for bubble leveling when measuring with a ranging pole, enabling walk-and-measure workflows while ensuring reliable accuracy.

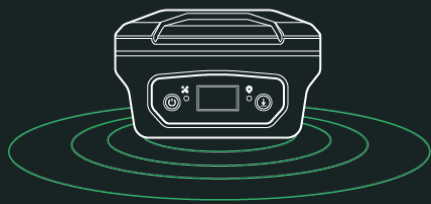


AR-Assisted Stakeout with One-Step Completion

Featuring satellite, inertial, and visual fusion algorithms unaffected by electromagnetic interference, it enables precise stakeout. The handheld and host support dual AR functionality with immersive real-world display and seamless switching for fast, accurate layout.



Core technology



High-performance, high-precision positioning chipset with narrowband anti-interference technology. It automatically performs ionospheric optimization, actively detects interference, and effectively suppresses both internal and external signal disruptions.

Engineering Surveying and Efficiency Assurance

The professional surveying software LiSurvey 2.0 meets the needs of various layout operations, such as road construction, power line surveying, site leveling control, CAD applications, and railway layout, effectively improving engineering surveying efficiency.



LiBase2 Specifications

System Parameters			
GNSS Board	UM980	Antenna	Integrated
Network Communication	4G	Radio	Integrated transceiver, 1 W Frequency: 410 – 470 MHz
Bluetooth	BT 5.0 backwards compatible, BLE	WIFI	802.11 a/ac/b/g/n
MEMS(1.8 m pole height)	30° tilt: within 2.5 cm pole tip accuracy 60° tilt: within 5 cm pole tip accuracy	Image	2MP pixels
GNSS			
Supported Signals	BDS: B1I/B2I/B3I/B1C/B2a/B2b GPS: L1C/A/L2P (Y)/L2C/L5 GLONASS: L1/L2 Galileo: E1/E5a/E5b/E6 QZSS: L1/L2/L5 SBAS	Channels	1408
		Update Rate	10 Hz, 20 Hz standard 50 Hz (authorized users)
RTK Accuracy	Horizontal: ± (8 mm + 1 ppm) Vertical: ± (15 mm + 1 ppm)	Static Accuracy	Horizontal: ± (2.5 mm + 0.5 ppm) Vertical: ± (5 mm + 0.5 ppm)
Electrical			
Battery Characteristics	Internal, 3.65 V DC/12000 mAh 43.8 Wh	Voltage	9~28 V DC
Image			
Resolution	2 MP	Frame Rate	25 Hz
Field of View (FOV)	88°	Sensitivity	Low-light, high sensitivity
Stakeout Accuracy	3 cm		
System Configuration			
Operating System	Linux	Built-in Storage	8 GB (onboard)
Bluetooth	V5.0 + EDR backwards compatible/BLE	SIM Slot	For SIM card insertion
Cellular	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B25/B26/B28 LTE TDD: B34/B38/B39/B40/B41 GSM: 850/900/1800/1900	TNC Connector	For external radio antenna
		Type-C Port	Fast charging and data transfer
User Interface			
Power Button	Power on/off, short press to announce current working mode and status		
Indicator Light	Satellite Indicator (Red/Green dual-color)	Off: No position Green flashing: Positioning acquired Green solid: Fixed solution Red/Green alternating: GNSS board error	
	Data link indicator (Blue/Green dual-color)	Green solid: Bluetooth not connected Blue solid: Bluetooth connected Green/Blue solid: No corrections received / Not recording Green/Blue flashing: Corrections received / Recording (priority: high)	
	Battery indicator (Green single-color)	Off:Not charging; short press power button to display battery level for 3 seconds (each LED segment = 25%) Green flashing: Charging in progress Green solid: Charging complete	
Physical Indicators			
Dimensions	Φ134 ×75.5 mm	Weight	Approx. 0.8 kg
Environmental			
Operating Temperature	-30℃ to +60 ℃	Storage Temperature	-40 ℃ to +80 ℃
Drop Resistance	2 m pole drop onto hardwood floor; 1.2 m free fall		

P9V Specifications

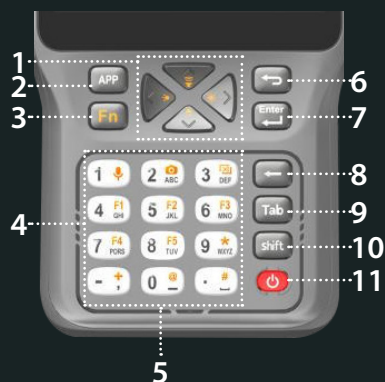
Technical Specification			
Product Type	Global Version	Bluetooth	BT5.0 BLE
WiFi	802.11 a/b/g/n/ac	Network	4G LTE
SIM Card Slot	Nano SIM	MicroSD Card Slot	Supports MicroSD expansion, up to 512 GB
RAM	4 GB	ROM	64 GB
NFC	Supported	Indicator Light	One tri-color light for charging status
Buttons	T9 numeric keypad (numeric and function keys) and side button	3D Accelerometer	Supported
Geomagnetic Sensor	Supported	Gyroscope	Supported
Camera	Rear 13MP with flash	GNSS	GPS/A-GPS, GLONASS, BDS, Galileo
Positioning Mode	Single-point positioning, no raw data output		

Physical properties			
Dimensions (mm)	231×85×21	Operating Temperature	-25°C to +65°C
IP Rating	IP68	Storage temperature	-30°C to +70°C
Drop Test	1.5 meters	Humidity	5% -95%, non-condensing

System platform			
Operating System	Android 14, Octa-core 2.0GHz	RAM	4 GB
Internal Storage	64GB	External Storage	Supports up to 512GB

Interface & Communication			
Display	6.0-inch HD touch screen, 1440×720, 550 nits	Connector	Standard Type-C, for charging and data transfer, supports OTG upgrade
Communication	Bluetooth: 5.0 BLE; WiFi: 2.4G/5G, 802.11 ac/a/b/g/n	Other Interfaces	External memory card slot, External SIM card slot
Network Bands	GSM: 850/900/1800/1900		
	WCDMA: B1/B2/B4/B5/B8		
	LTE-TDD: B34/B38/B39/B40/B41		
	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B25/B26/B28/B66		

Power Parameters			
Built-in battery	8000 mAh	Adapter	Type-C PD Adapter
Typical Battery Life	12 hours		



Definition of keys and indicator lights

Number	Key Type	Function Description
1	Direction Keys	Navigate up, down, left, or right on the screen or menu. In function mode: Up/Down keys control volume; Left/Right keys adjust screen brightness.
2	Measurement Key	If the LiSurvey2.0 interface is not active, press to open or switch to the LiSurvey2.0 interface. If already in the LiSurvey2.0 interface, press to confirm data acquisition.
3	Fn Key	When pressed, the Fn indicator appears in the notification bar, enabling the orange functions on the keyboard.
4	Number Keys	Enter numbers.
	Special Function Keys (when Fn is locked, the orange icon indicates the function)	Voice Function (on "1" key): Initiate voice input and execute voice commands via LiSurvey2.0.
		Photo Function (on "2" key): Activate the camera.
		Screenshot Function (on "3" key): Capture a quick screenshot.
5	Indicator light	F1-F5 Keys: User-defined function keys. Red light: The indicator light shows red while charging. Green light: it changes to green once the battery is full.
6	Return key	Go back to the previous interface.
7	Enter key	Confirm input or wrap text. In the LiSurvey2.0 interface (non-input state): Act as the data acquisition key.
8	Undo key	Delete one character before the cursor in the input field.
9	Tab key	Insert a tabulation.
10	Shift key	Switch between numbers, lowercase letters, and uppercase letters when using the physical keyboard input method.
11	Power Key	Turn the device on/off.

Map The World In 3D
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