

E600

RUGGED & ALL-FUNCTIONAL GNSS RECEIVER

The eSurvey E600 is an innovative GNSS receiver that delivers unmatched GNSS performance, speed and accuracy to improve your productivity. The dual rechargeable and removable batteries make no interruption to your surveying work. The E600 is perfect for survey professionals who need to collect highly accurate data in a wide range of geospatial applications.



GNSS Receiver

Hot-swappable Batteries: Constant & Mobile Power Supply

Help to eliminate power-related downtime and maximize power availability and productivity, given that there are enough charged batteries on hand. Quickly check the remaining battery power with just one click of the button on the battery.

RTK Aid Function: Uninterrupted Work

Work without interruption even when RTK corrections fail, powered by our RTK aid function.

8GB Internal Memory + TF Card Extension

The built-in 8GB internal memory and TF card extension slot allow more data storage for a longer time.

Rugged Design: Better Resistance to Shock and Fall

Use it for many years, thanks to its strongly made and capable of withstanding rough handling.

Viewable Working Mode

The working mode can be seen clearly through the four indicators (Satellite, datalink, battery, and Bluetooth).

Max 60° Tilt Survey: A Different Way of Working

- Quickly measure accurate points while standing or walking without leveling the pole.
- Concentrate on where the pole tip needs to go, which is especially useful during a stakeout.
- Easily start a survey in environments that are hard to reach, such as building corners and slopes.
- No longer worry about the movement of the pole when measuring, provided that the pole tip is stationary.



Website



Social media

Product Specification

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GNSS Performance		
Satellites tracking	GPS	L1CA, L2P(Y), L2C, L5
	BDS	B1I, B2I, B3I, B1C, B2a, B2b ¹
	GLONASS	L1, L2
	GALILEO	E1, E5a, E5b, E6 ¹
	QZSS	L1, L2, L5, L6 ¹
	SBAS	WAAS, GAGAN, MSAS, EGNOS, SDCM, BDS
	L-Band	B2b PPP (Only for the Asian-Pacific region)
Channels	1408	
Cold start	< 30 seconds	
Warm start	< 20 seconds	
Hot start	< 5 seconds	
RTK signal initialization	< 5 seconds	
Initialization reliability	> 99.9%	
Update rate	20 Hz	
High precision static	<ul style="list-style-type: none"> ■ H: 2.5 mm + 0.1 ppm RMS ■ V: 3.5 mm + 0.4 ppm RMS 	
Static and Fast Static	<ul style="list-style-type: none"> ■ H: 3 mm + 0.5 ppm RMS ■ V: 10 mm + 0.5 ppm RMS 	
RTK	<ul style="list-style-type: none"> ■ H: 5 mm + 0.5 ppm RMS ■ V: 10 mm + 0.5 ppm RMS 	
Standard point positioning	<ul style="list-style-type: none"> ■ H: 1.5 m RMS ■ V: 2.5 m RMS 	
Code differential	<ul style="list-style-type: none"> ■ H: 0.4 m RMS ■ V: 0.8 m RMS 	
SBAS	<ul style="list-style-type: none"> ■ H: 0.3 m RMS ■ V: 0.6 m RMS 	
Correction data	RTCM V3.X, RTCM2, CMR	
Data output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary	

Power Supply	
Battery	Removable and rechargeable Hot-swappable Lithium-ion battery x 2 7.2 V ~ 3400 mAh x2
Voltage	9 - 28V dc
Working time	Up to 10 hours
Charging time	Typically 4 hours

Internet Modem	
Supported band	Global 4G <ul style="list-style-type: none"> ■ LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28 ■ LTE TDD: B38, B39, B40, B41 ■ UMTS: B1, B2, B4, B5, B6, B8, B19 ■ GSM: B2, B3, B5, B8

System	
Operation system	Linux
Internal memory	8GB (Support TF card extension, 32GB max.)
Bluetooth	BT5.0+EDR, BLE
Wi-Fi	802.11 a/b/g/n/ac
SIM card	✓
TNC	Connect internal radio with antenna
5-pin port	Connect to external radio and external power
7-pin port	NMEA output, internal storage access
Web UI	View status, update firmware, set up working mode, download data, etc.
Intelligent voice	Broadcast working mode and status
MEMS	Fast initialization, dynamic tilt survey up to 60°

Physical	
Dimension	Φ156 mm x H76 mm
Weight	1300 g
Operating temperature	-30°C - +65°C
Storage temperature	-40°C - +80°C
Water / dust proof	IP67
Shock	<ul style="list-style-type: none"> ■ Withstand topple over from a 2 m survey pole onto hard surfaces ■ Survive a 1.2 m free drop
Vibration	Vibration resistant
Humidity	Up to 100%
Indicators	Satellites, datalink, battery, Bluetooth
Button	Power button, short press to voice broadcast working mode and status
Certificate	CE, FCC, NGS, IGS

Internal Radio	
Type	TX and RX
Emitting Power	1 W
Operation Range	<ul style="list-style-type: none"> ■ 3-5 km typically ■ 10 km with optimal conditions²
Frequency range	410 - 470 MHz, 902.4 - 928 MHz ⁴
Channel spacing	6.25 KHz ³ / 12.5 KHz / 25 KHz / 280 KHz
Protocol	Satel, PCC, TrimTalk, TrimMark III, TRANSEOT (PCC-GMSK), South, HiTarget, GEOTALK, GEOMK3, HZSZ, 900M Hopping

- 1: It is not supported for now. It will be supported after firmware update in the future.
- 2: It depends on the environment and electromagnetic interference.
- 3: It is only available for radio protocol "Satel", and the radio firmware is later than G001.02.27.
- 4: It is only available for certain radio module.