



# E600

## Rugged & Full-featured RTK Receiver

E600 is an innovation product by eSurvey GNSS. The durable IP67 design makes it possible to work in various of environments. Multi constellation and frequency tracking always gives a Fixed solution for your job. Dual hot-swap battery demands a whole day's work.

### Multi-constellation and multi-frequency

With 800 channels of GNSS tracking, E600 provides stable and reliable accuracy. All GNSS signals are coming with standard including GPS, BDS, GLONASS, GALILEO, QZSS, IRNSS and SBAS.

### Dual Hot-swap Intelligent Batteries

Two hot-swap batteries ensure field operation up to 12 hours. Use can change battery anytime without interrupting the work. Battery level can be checked on the LED indicators by a simple click.

### E-bubble Tilt Survey

User can record data when e-bubble is centered to achieve high accuracy solution. Also, thanks to the software SurPad4.0, user can collect tilt point with e-bubble.

### Web UI

It is able to view position status, set up working mode, download data and update firmware from Web user interface with any phone, tablet or PC

### Intelligent Voice

E600 will broadcast voice automatically to remind user the solution status is changed. It is also able to manually broadcast current working mode and solution status by short pressing power button.

### Rugged Design

E600 main body is using magnesium materials to provide strong shock and vibration resistant characteristics. IP67 certification ensures operation in various of tough environments.

# Product Specification

GNSS		
Satellites Tracking	GPS: L1CA/L2E/L2C/L5 BDS: B1/B2/B3 GLONASS: L1CA/L2CA/L3 CDMA GALILEO: E1/E5a/E5b/E6/ALTB0C QZSS: L1CA/L1 SAIF/L1C/L2C/LEX NAVIC: L5 SBAS <sup>1</sup> : L1/L5 L-Band: RTX	
	Channels	336
	Signal Reacquisition	< 1 sec
	Cold Start	< 60 sec
	Warm Start	< 30 sec
	Hot Start	< 10 sec
	RTK Signal Initialization	< 8 sec
	Initialization Reliability	> 99.9%
Update Rate	50 Hz standard, up to 50 Hz	
Operation System	Linux	
Internal Memory	8 GB	
Performance		
High Precision Static	H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm	
Static/Fast Static	H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm	
RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm	
Code Differential	H: 0.25 m V: 0.45 m	
SBAS	H: 0.3 m V: 0.6 m	
Power Supply		
Battery	Dual rechargeable and replaceable Li-ion battery, 7.2 V ~ 3400 mAh *2	
Voltage	9~28 VDC with over-voltage protection	
Working Time	Up to 10 hours	
Charging Time	4 hours	
Internal Radio		
Type	TX and RX	
Frequency Range	410 ~ 470 MHz	

Channel Spacing	12.5 KHz / 25 KHz
Emitting Power	1 W
Operation Range	3 ~ 5 Km typically 10 Km with optimal conditions <sup>2</sup>
Protocol	Satel, PCC, TrimTalk, TrimMark III, South, HiTarget
Internet Modem	
Support Band	GSM /WCDMA/LTE
Communication	
Bluetooth	V2.1 + EDR/V4.1 dual module
WIFI	802.11 b/g/n
SIM Card	Micro SIM card
SD Card	Up to 32 GB
5-pin Port	Connect to external radio and power
7-pin Port	NMEA output, internal storage access
TNC Port	Connect to internal radio antenna
Web UI	View status, update firmware, set up working mode, download data
Intelligent Voice	Broadcast working status
NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary
Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32
E-bubble	Support
Physical	
Dimension	Φ156 mm x H76 mm
Weight	1.3 kg with 2 batteries 1.1 kg without battery
Operating Temperature	-40℃ ~ +65℃
Storage Temperature	-45℃ ~ +80℃
Water/Dust Proof	IP67
Shock	Survive a 2 m drop on concrete floor
Vibration	Vibration resistant
Humidity	Up to 100%
Indicators	Satellites, datalink, battery, Bluetooth
Button	Power button, short press to voice broadcast status
Certificate	CE, FCC, NGS Calibration

1. SBAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS.

2. Depend on the environment and electromagnetic interference.



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