



# E800

## GNSS Receiver

E800 integrated intelligent receiver is a new generation of surveying product that will be launched by our company. It is a high-end of RTK receiver, using magnesium-aluminum alloy. The highly integrated body has excellent ability of heat dissipation and anti-interference, high precision, more stability, strong compatibility and environmental applicability.

### Built-in radio (5W)

Up to 10km transmission distance, 410-470Mhz full-band, compatible with major transmission protocols.

### Superior anti-interference ability

Stronger signal acquisition capability in harsh environments.

### Built-in battery (13000mAh)

For longer lasting operation.

### Magnesium-aluminum alloy design

Excellent heat dissipation.

### Built-in 4G network module

More stable network communication.

### Color LCD display, multi-touch

### Built-in Bluetooth, WiFi communication module

### Compatible with multi-constellation satellites

### Tilt survey

The E800 receiver integrates an electronic bubble sensor, combined with a new tilt survey algorithm and surpad software operation. No calibration is required before measurement, the accuracy of coordinate data can be easily achieved within 30 ° tilt angle.

# Product Specification

GNSS Performance		GNSS Performance	
Channel	H: 600	Channel	T: 336
Satellite Tracked	GPS:L1CA/L1P/L1C/L2P/L2C/L5 GLONASS: G1/G2, P1/P2 BeiDou:B1/B2/B3 GALILEO: E1BC/E5a/E5b QZSS: L1CA/L2C/L5/L1C SBAS: L1 CA/L5 L-BAND	Satellite Tracked	GPS: L1 CA/L2E/L2C/L5 GLONASS:L1CA/L2CA/L3 CDMA BeiDou:B1/B2/B3 GALILEO:E1/E5A/E5B/E5AltBOC/E6 QZSS: L1CAL1SAIF/ L1C/ L2C/ L5 SBAS: L1 CA/L5 NAVIC: L5
Static Accuracy	Horizon: 2.5mm+1ppm RMS Vertical: 5mm+1ppm RMS	Static Accuracy	Horizon: 2.5mm+1ppm RMS Vertical: 5mm+1ppm RMS
RTK Accuracy	Horizon: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS	RTK Accuracy	Horizon: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS
SBAS Accuracy	Horizon: 0.3m RMS	SBAS Accuracy	Horizon: 0.5m RMS
Code Differential Accuracy	Horizon: 0.25m RMS	Code Differential Accuracy	Horizon: 0.25m RMS
Update rate	Up to 50Hz	Update rate	Up to 50Hz
Power Supply		Data Interface	
Battery	Built-in rechargeable battery 7.2V/13.6Ah	LCD	1.45" TFT LCD VGA (320 x 240) , capacitive touch screen, multi-touch
Working time	Up to 12 hours	TNC	For UHF Antenna
Input	9~28V DC,with over-voltage protection	5 pins	External radio and external power , RS232
Physical		Type-C	DC input@5V/9V/15V/20V , PD3.0 , USB OTG, USB2.0, RS232
Dimension	158mm*158mm*72mm	Buttons	Power button
Weight	1.25KG	Indicator	4 indicators , GNSS/BT/UHF/PWR
Communication		Environment	
Memory	Internal 16G; Support TF card, up to 32G	Operating Temperature	-30 C ~ +65 C
Bluetooth	V2.1+EDR / V4.1 Dual Mode , Class2	Storage Temperature	-40 C ~ +80 C
WIFI	802.11 b/g/n	Water/ Dust Proof	IP67
4G	GSM/GPRS/EDGE/LTE/UMTS/WCDMA	Shock	Survive a 2 m (6.6 ft) pole drop, 1.2 m (3.9 ft) free fall
Internal UHF	TX (2/5W adjustable) & RX, Frequency 410-470MHz Work Distance: 10km in optimal environment	Vibration	Vibration resistant
Web UI	To manage the status and settings, upgrade firmware,data download	Humidity	100%,condensing
Electric Bubble	Enable		
Tilt Survey	Support		

