

E100

NETWORK GNSS RECEIVER

The eSurvey E100 is a network receiver that will get more done faster than you thought possible. This entry-level GNSS solution handles multiple frequencies from multiple constellations, improving position accuracy. Thanks to its ultra-compact design and built-in RTK Aid function, the E100 is an ideal rover station receiver for a CORS system. The E100 is suitable for different applications such as car and machine control.





Compact Design: Easy to Carry

Easily carry it in a variety of complex environments, benefiting from its lightweight and compact design

Intelligent Voice

The E100 can automatically broadcast voice alert to the user when the solution status changes. It also broadcasts current working mode and solution status manually by short pressing the power button.

Web UI

It allows users to view position status, set up working mode, download data, and update firmware from the Web user interface with any smartphone, tablet, or PC.

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.

RTK Aid Function: Uninterrupted Work

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

Rugged Design

The main body of the E100 is made of magnesium alloy materials which has strong shock and vibration resistance. IP67 certification ensures operation in variety of tough environments.



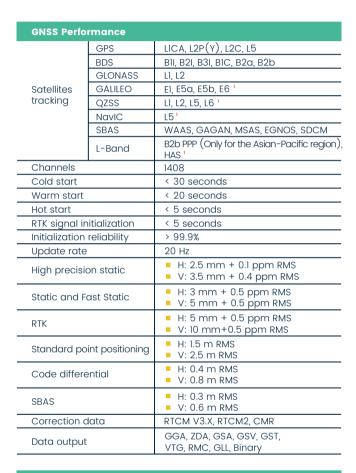




Product Specification

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Power Supply	
Battery	Rechargeable Built-in Lithium-ion battery x 1 7.2V ~ 6900 mAh
Voltage	9 - 28V dc
Working time	Up to 9 hours as rover
Charging time	Typically 4 hours

^{1:} It will be supported through future firmware update.



Internet Modem	
Supported band	Global 4G 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	8 GB
Bluetooth	BT5.0+EDR, BLE
Wi-Fi	802.11 a/b/g/n/ac
SIM card	✓
5-pin port	Connect to external radio and external power; NMEA output
Type-C port	Charge and data transmission
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	Ф148 mm x H77 mm
Weight	900 g
Operating temperature	-30°C - +65°C
Storage temperature	-40°C - +80°C
Water / dust proof	IP67
Shock	 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



