-survey

E300 GNSS Receiver

The shape design of E300 is inspired by flying saucer, which means future technology, and supports satellite station differential and satellite chain life, quick connection, intelligent voice, tilt survey, etc. The body is made of magnesium alloy, which is rugged and has better EMC characteristics, it creates a high-grade aesthetic feeling, simple yet sophisticated.



Design

The shape of the E300 is inspired by the flying saucer, bringing the high performance and minimal structure of outer space.

Interface

The interface adopts a concealed design for better protection, and Type-C charging and transmitting is a two-in-one function.

Button

The receiver has only one power button, which is convenient for users to learn and use.

Material

The body is made of magnesium alloy, which is rugged and has better EMC characteristics. The weight of the whole receiver is only 1.2kg.

Protection

IP67, 2m drop-resistant design make the device worry-free.

Intelligent voice

The receiver and controller software support TTS intelligent voice broadcast, and the broadcast content supports user customization

Electronic bubble

The built-in electronic bubble can display the horizontal situation on the controller, which is convenient for the surveyor to collect the detailed points in the field.

WebUI

The user can connect to the receiver through a smartphone or other hardware products with WiFi function to perform settings, status check, survey data download and firmware upgrade, etc. Operating E300 can be as simple as surfing the Internet.

Portable

Integrated design, wireless binding, a backpack can hold the whole rover.

aRTK

In the RTK operation, when the differential link of the radio or network is interrupted, the aRTK function is used, and the accuracy of the RTK operation can be maintained for a certain period of time, and there is no dead angle in the satellite chain.

Satellite station differential

Using a global framework reference station for differential data solving and broadcasting via satellite, users can achieve single-receiver centimeter positioning on a global scale, even if you are in the ocean, desert, gobi and other extreme environments, it can provide you with accurate coordinate data under the global framework.

Tilt survey

The E300's built-in high-sensitivity tilt sensor, combined with the patented tilt survey algorithm, eliminates the need for calibration and is ready to use.

Product Specification

| GNSS | | Interface | |
|-------------------------|-----------------------------------|-----------------------|--|
| Channel | 600 | TNC | Internal radio UHF antenna interface. |
| Satellite Tracked | GPS: L1CA/L1P/L1C/L2P/L2C/L5 | Type-C | Direct charge and support external power |
| | GLONASS: G1/G2, P1/P2 | | supply, USB3.2 directly connected to the |
| | BeiDou:B1/B2/B3 | | computer, USB mode, etc. |
| | Galileo: E1BC/E5a/E5b | 5-pin Interface | Serial port and external power supply |
| | QZSS: L1CA/L2C/L5/L1C | SIM card slot | NANO SIM |
| Update Rate | 5Hz | Power Button | Short press, long press, hold, |
| Static Accuracy | Horizontal: ± (2+0.5×10-6D) mm | | multiple applications |
| | Vertical: ± (3+0.5×10-6D) mm | Power Indicator | Display the battery power of receiver |
| RTK Accuracy | Horizontal: ± (4+1×10-6D) mm | Strip-type Indicator | Display the working status of receiver |
| | Vertical: ± (8+1×10-6D) mm | Voice | TTS voice broadcast |
| Power Supply | | Environment | |
| Battery | Built-in battery, 7.2V 6800mAh | Operating Temperature | -45℃ ~ +65℃ |
| Working time | No less than 10 hours | Storage Temperature | -50℃ ~ +80℃ |
| Input Voltage | 9~28V DC | Water/Dust Proof | IP67 |
| Communication | | | IP68 (Russian Version) |
| Memory | 8GB | Shock& Vibration | Survive a 2 m (6.6 ft) pole drop, |
| Bluetooth | V2.1+EDR / V4.1 Dual Mode, Class2 | | 1.2 m (3.9 ft) free fall |
| WIFI | 802.11 b/g/n | Humidity | 100%, condensing |
| Internal UHF (Optional) | Transmit power 1w | | |
| | Frequency 410-470MHz | | |
| | Radio Protocol SATEL | | |
| | PCC-EOT, TrimTalk 450S | | |
| | South 9600, South 19200 | | |
| | HiTarget 9600, HiTarget 19200 | | |
| | TrimMark III (19200), TrimTalk1 | | |
| | GEOTALK, GEOMARK | | |
| Network (Optional) | Support 4G | | |
| Electric Bubble | Enable | | |
| | | | |
| Physical | | | |
| Physical Dimensions | φ180mm*76mm | | |



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