

E300 Pro GNSS Receiver

E300pro supports multiple satellite constellations, quick connection, intelligent voice, tilt survey and more. The structural frame is made of a magnesium alloy, which is rugged and has good EMC characteristics, its aesthetically pleasing to look at, simple yet sophisticated.



Design

This minimal structural design brings with it high performance and a sleek look.

Interface

The interface adopts a concealed design for better protection, Type C charging and data transmission is done through one port.

Button

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

Material

The structural frame is made of a magnesium alloy, which is rugged and has Good EMC characteristics. The weight of the whole receiver is only 940g.

Protection

IP67 certified, 2m drop-resistant design makes the device worry-free to use.

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 current orientation of the receiver on the controller, which is convenient for surveyors to collect detailed points in the field.

WebUI

The user can connect to the receiver through a smart phone or other devices that are WiFi enabled to perform changes to settings, status check, survey data download and firmware updates and more. With this feature operating the E300 Pro can be as simple as surfing the Internet.

Battery Status

Able to check battery status anytime by pressing the power button below the E300 Pro, green LED indicator lights will show how much power is left.

aRTK

When RTK is in operation and there is a break in the radio or network interruption, the aRTK function is activated, and the accuracy of the RTK operation can be maintained for a certain period of time.

L-Band: ATLAS

Using a global satellite constellation for differential data, solving and broadcasting via satellites, 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 network.

Tilt survey

E300Pro's built-in high-sensitivity MEMS sensor, combined with the patented tilt survey algorithm, eliminates the need for calibration and is ready to use.

Product Specification

| GNSS Receiver | | Internal Radio | |
|--------------------------------|--|-------------------------|--|
| Channel * | 800 | Frequency Range | 410 - 470 MHz |
| Satellite Tracking | GPS: L1CA/L1P/L1C/L2P/L2C/L5 | Channel Spacing | 12.5 KHz / 25 KHz |
| | GLONASS: G1, G2, G3 | Emitting Power | 0.5 W / 1 W |
| | BeiDou: B1I, B2I, B3I, B1C, B2a, B2b, ACEBOC | Operating Range | 3 - 5 km typically |
| | Galileo: E1, E5a, E5b, ALTBOC, E6 | Communication | |
| | SBAS: L1/L5 | 5-pin | Connect to external power and radio |
| | IRNSS | Type-C | For charging and data transmission |
| | QZSS: L1C/A, L1C, L2C, L5, LEX | SIM Card | NANO SIM |
| | L-Band: ATLAS H10/H30/H50 | Cellular * | Global 4G |
| Update rate | 10 Hz, up to 50 Hz | Bluetooth | V2.1+EDR / V4.1 Dual Mode, Class 2 |
| Signal Reacquisition | < 1 sec | WIFI | 802.11 ac/n/a/b/g |
| Hot Start | < 10 sec | WebUI | Update firmware, manage settings and status, download data |
| Initialization Reliability | > 99.9% | Voice | Support TTS voice broadcast |
| Memory | 16 GB | Electronic Bubble | Support |
| Performance (RMS) ¹ | | MEMS * | Support, up to 60° |
| Static Accuracy | Horizontal: 2.5 mm + 0.5 ppm | NMEA Output | GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL |
| | Vertical: 5 mm + 0.5 ppm | Physical Specifications | |
| RTK Accuracy | Horizontal: 8 mm + 1 ppm | Dimensions | φ158 mm x 53 mm |
| | Vertical: 15 mm + 1 ppm | Weight | 940 g |
| Code Differential | Horizontal: 0.25 m | Operating Temperature | -30 C ~ +65 C |
| SBAS Accuracy | Horizontal: 0.3 m | Storage Temperature | -40 C ~ +80 C |
| Power Supply | | Water/Dust Proof | IP67 |
| Battery | Rechargeable, built-in Lithium-ion battery | Shock | Survive a 2 m pole drop on concrete floor |
| | 7.2 V - 6800 mAh | | 1.2 m free fall |
| Voltage | 9~28 V DC external power input | Vibration | Vibration resistant |
| Operating Period | Up to 12 hours | Humidity | Up to 100% |
| Charge Time | Typically 4 hours | Indicator | Satellites, Datalink, Battery level, Bluetooth |
| | | | Smart battery indicator |

Illustrations and technical specifications are subject to change without notice.

1. The accuracy claimed is based on the optimal environment.



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