

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, ALTB0C, 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	-40 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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