O-survey



E300 Pro Full-featured GNSS Receiver

The eSurvey E300 Pro is a fully functional GNSS receiver with an extremely compact design by eSurvey GNSS. With its high-performance GNSS board, it can track all present constellations and satellites. The GNSS, Wi-Fi, Bluetooth, and GSM four-in-one antenna, stable data transmission, RTK Aid, and IMU function, make it suitable for all surveying applications.



GNSS Receiver

Power Indicator: An Intelligent Hint of Working Time

Quickly check the remaining battery power in real time and figure out the working time without data loss.

Integrated Tx/Rx UHF Modem in a Compact Design

The built-in transceiver radio modem in the compact design of the E300 Pro makes it a full-featured and portable GNSS receiver that works as either base or rover station.

Rugged Design: Better Resistance to Shock and Fall

Use it for many years, for it is strongly made and capable of withstanding rough handling.

RTK Aid Function: Uninterrupted Work

RTK aid function.

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

Multi-constellations and Multi-frequency

With 1408 channels of GNSS tracking, the E300 Pro provides stable and reliable centimeter-level positioning accuracy in real-time to suit any field data collection applications. All GNSS signals are supported, including GPS, BDS, GLONASS, GALILEO, QZSS, SBAS, L-Band and NavIC.

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.





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Product Specification



E300 Pro FULL-FEATURED GNSS RECEIVER



GNSS Perfo	ormance			
	GPS	LICA, L2P(Y), L2C, L5		
	BDS	B11, B21, B31, B1C, B2a, B2b		
	GLONASS	L1, L2		
O est e ll'h e e	GALILEO	E1, E5a, E5b, E6 '		
Satellites tracking	QZSS	L1, L2, L5, L6 ¹		
tracking	NaviC	L5 '		
	SBAS	WAAS, GAGAN, MSAS, EGNOS, SDCM		
	L-Band	B2b PPP (Only for the Asian-Pacific region), HAS ¹		
Channels	•	1408		
Cold start		< 30 seconds		
Warm start		< 20 seconds		
Hot start		< 5 seconds		
RTK signal ir	nitialization	< 5 seconds		
Initialization reliability		> 99.9%		
Update rate		20 Hz		
High precision static		H: 2.5 mm + 0.1 ppm RMS V: 3.5 mm + 0.4 ppm RMS		
Static and Fast Static		 H: 3 mm + 0.5 ppm RMS V: 5 mm + 0.4 ppm RMS 		
RTK		 H: 5 mm + 0.5 ppm RMS V: 10 mm + 0.5 ppm RMS 		
Standard point positioning		 H: 1.5 m RMS V: 2.5 m RMS 		
Code differential		 H: 0.4 m RMS V: 0.8 m RMS 		
SBAS		 H: 0.3 m RMS V: 0.6 m RMS 		
Correction data		RTCM V3.X, RTCM2, CMR		
Data output		GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary		

Power Supply	
Battery	Rechargeable Built-in Lithium-ion battery x 1 7.2V ~ 6800 mAh
Voltage	9 - 28V dc
Working time	12 hours
Charging time	Typically 4 hours

Internet Modem	
Supported band	Global 4G LTE FDD: BI, 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	\checkmark
TNC	Connect internal radio with antenna
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°

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	Physical		
	Dimension	Φ158 mm x H53 mm	
	Weight	940 g	
	Operating temperature	-30°C - +65°C	
	Storage temperature	-40°C - +80°C	
[]	Water / dust proof		
	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	

Internal Radio	
Туре	TX and RX
Emitting Power	1 W
Operation Range	3 - 5 km typically
Frequency range	410 - 470 MHz, 902.4 - 928 MHz ³
Channel spacing	6.25 KHz ² / 12.5 KHz / 25 KHz / 280 KHz ³
Protocol	Satel, PCC, TrimTalk, TrimMark III, TRANSEOT(PCC-GMSK), South, HiTarget, GEOTALK, GEOMK3, HZSZ, 900M Hopping ³

1: It will be supported through future firmware update.

2: It is only available for radio protocol "Satel", and the radio firmware is later than G001.02.27.

3: It is only available for certain radio module



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