e-survey

NET10

GNSS REFERENCE STATION RECEIVER

The eSurvey NET10 is specially designed for a user who needs to set up reference stations. With the 3D choke-ring antenna, the device provides stable correction data to the rover. Integrated with Bluetooth, WIFI, Web UI, ethernet, and serial port, NET10 brings the possibility for more applications.

GNSS Receiver

Multi-constellation and Multi-frequency: Powerful Satellite Tracking Capacity

Obtain all available and reliable data sources, with total channels and all signals (GPS, BDS, GLONASS, GALILEO, IRNSS and QZSS) of GNSS tracking.

Working Safely: Higher Security

8 - 36 V dc with over-voltage protection.

Web UI: Easy-to-use

Enjoy convenient remote connection to the web user interface, including viewing position status, configuring a device, downloading data, and updating firmware with any phone, tablet, or PC.

Smart Alert: An Instant Reminder

Receive an alert email once the satellite number is less than the set value, temperature is too high or the memory storage is almost full.

Smaller in Size: Owning All Major Features

Easily carry it in a variety of complex environments, benefit from its lightweight and compact design, but enjoy its comprehensive functions.

Rugged Design: Better Resistance to Shock and Fall

Survive a 2 m drop from a concrete floor. IP67 certification ensures operation in various tough environments.

Website   Social media

Product Specification

NET10

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GNSS		
Satellites tracking	GPS	L1CA, L1C, L2P（Y）, L2C, L5
	BDS	B1I, B2I, B3I, B1C, B2a, B2b
	GLONASS	L1, L2, L3
	GALILEO	E1, E5a, E5b, E6
	QZSS	L1, L2, L5, L6*
	IRNSS	L5
	SBAS	L1, L5*
	L-Band	B2b PPP（Only for the Asian-Pacific region） E6HAS
Channels		1408
Signal reacquisition		< 1 seconds
Cold start		< 60 seconds
Warm start		< 30 seconds
Hot start		< 10 seconds
Initialization reliability		> 99.9%
Update rate		20 Hz
Operation system		Linux + A8
Internal memory		32 GB

Performance	
Static	■ H: 2.5 mm + 0.5 ppm ■ V: 5 mm + 0.5 ppm
RTK	■ H: 8 mm + 1 ppm ■ V: 15 mm + 1 ppm
SBAS	■ H: 0.4 m ■ V: 0.8 m

Power Supply	
Power	2-pin DC in
Power Voltage	8 - 36 V dc with over-voltage protection, Power less than 3W without 4G

*It will be supported through future firmware update.

Communication	
Bluetooth	BT5.0 + EDR, compatible with BLE
Wi-Fi	802.11 b/g/n
Ethernet	Support
Port	■ 2-pin, DC in ■ RJ45 Ethernet ■ DB9 female RS232 ■ GNSS TNC female
Baud rate	4800 - 921600
Web UI	Support
NMEA output	NMEA0183
Correction data	RTCM V3.0,RTCM V3.3. RTCM2.3, CMR.DGPS,RAW
Recording format	Binary, RINEX, BINEX
Recording interval	■ 2s, 10s, 15s, 30s, 60s ■ 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
Data stream	■ Bluetooth ■ Serial port x 1 ■ Ntrip Server stream x 4 ■ Ntrip Caster stream x1 ■ Ntrip Client stream x 1 ■ Socket（TCP/UDP）stream x 5
Alerts	E-mail
FTP function	■ FTP Server ■ FTP Client（FTP push）
NTP server	Support
Others	DDNS, SNMPD, Firewall, VPN

Physical	
Dimension	131 mm x 36.5 mm x 97 mm
Weight	435 g
Indicators	Battery, Recording, Bluetooth, Datalink
Button	Reset button x 1
Reset	■ 6 seconds to reset some basic settings ■ 60 seconds to reset all settings
Operation temperature	-30°C - +65°C
Storage temperature	-40°C - +80°C
Humidity	Up to 95%
Shock	Survive a 2 m drop on concrete floor
Water/Dust Proof	IP67
Certificate	CE, FCC