FORA GNSS
ADVANTAGES OF A LEADER

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.

# Product Specification

# NET10

## GNSS REFERENCE STATION RECEIVER




| 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)<br>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<br>■ V: 5 mm + 0.5 ppm |
| RTK | ■ H: 8 mm + 1 ppm<br>■ V: 15 mm + 1 ppm |
| SBAS | ■ H: 0.4 m<br>■ 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<br>■ RJ45 Ethernet<br>■ DB9 female RS232<br>■ 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<br>■ 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz |
| Data stream | ■ Bluetooth<br>■ Serial port x 1<br>■ Ntrip Server stream x 4<br>■ Ntrip Caster stream x1<br>■ Ntrip Client stream x 1<br>■ Socket (TCP/UDP) stream x 5 |
| Alerts | E-mail |
| FTP function | ■ FTP Server<br>■ 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<br>■ 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 |