Eyr GNSS Receiver

Data Specifications

GPS (L1C/A, L1C, L2P(Y), L2C, L5) Signal Tracking BDS (B1I, B2I, B3I, B1C, B2a, B2b*) GLONASS (L1, L2, L3) Galileo (E1, E5a, E5, AltBOC, E5b, E6*) SBAS(L1, L2, L5)

QZSS (L1, L2, L5, L6*) IRNSS (L5)

H:±0.25 m+1 ppm RMS

No. of Channels 1408/800+ (optional)

POSITIONING PERFORMANCE[®]

High-precision static GNSS Surveying H:2.5 mm + 0.1 ppm RMS / V:3.5 mm + 0.4 ppm RMS Static and Fast Static H:2.5 mm + 0.5 ppm RMS / V:5 mm + 0.5 ppm RMS Post Processing Kinematic H:8mm + 1 ppm RMS / V:15 mm + 1 ppm RMS

(PPK / Stop & Go) Initialization time: Typically 10 min for base and 5 min for rover

Code Differential GNSS Positioning

Real Time Kinematic (RTK)

Initialization time: Typically <10 s Initialization reliability: Typically > 99.9%

Bluetooth: 4.2 / 2.1+EDR, 2.4 GHz

Initialization reliability: Typically>99.9%

V:±0.5 m+1 ppm RMS SBAS: 0.5 m (H)

H:8 mm+1ppm RMS / V:15 mm+1 ppm RMS

Time to first Fix Tilt Survey Performance

Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5 cm accuracy in the inclination of 60°) H:RTK+10 mm / minute RMS / V:RTK+20 mm / minute RMS

Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s

Hi-Fix

COMMUNICATION

Communication

Wi-Fi: frequency 2.4 GHz, Supports 802.11 b / g / n Frequency: 410-470 MHz | Channel: 116

Internal UHF Radio

Transmitting power: 0.5 W / 1 W / 2 W adjustable Supports multi-communication protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL, etc.

PHYSICAL

Internal battery 4

External power

Internal 7.2 V / 6900 mAh lithium-ion rechargeable battery. RTK Rover (Network) for 12 hours. | Static: up to 15 hours Power consumption:4.2W | Dimensions (W×H):130mm×79mm Charging:using standard smartphone chargers or external power banks.(Support 5V 2.8A Type-C USB external charging)

. Weight:≤0.97 kg (includes battery) Data storage:8GB ROM internal storage

Warsaw, Poland Jičín, Czech Republic **Control Panel**

Järnbrotts Prästväg, 2

Goteborg, Sweden

Regional Offices:

Ankara, Turkey

Singapore

Dubai, UAE

Scottsdale, USA

Hong Kong, China

www.satlab.com.se

421 47 Vastra Frolunda

LED Lamp Camera

Pixel

2MP&5MP

Support real scene stakeout, image measurement,

Satellite, Signal, Power | Physical button: 1

working distance 2~15m

Environment

Water / Dustproof

IP68 MIL-STD-810G,

Shock and vibration

Designed to survive a 2 m natural fall onto concrete

Humidity

100%, condensing -45°C ~+75°C Operation temperature

Storage temperature **Image Accuracy**

-55°C~+85°C

Stakeout/Image Measurement

Typically 2cm/2cm~4cm

USB type C interface; SMA interface; Nano SIM card slot

Data Formats

Output rate

Static data format GNS, Rinex Dual Format Static Data Network model VRS, FKP, MAC; supports NTRIP protocol

CMR& RTCM RTCM 2.x, RTCM 3.x Navigation outputs ASCII NMEA-0183



GNSS Receiver

CE IP68







^{*}Description and Specifications are subject to change without notice.

[1]BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 can be provided by firmware upgrade.

^[2]The measurement accuracy, precision, reliability and initialization time depend on various factors, including tilt angle, number of satellites, geometric distribution, observation time, atmospheric conditions and multi-path validation, etc. The data are derived under normal conditions

^[3]Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy.

[4]The battery operating time is related to the operating environment, operating temperature and battery life.