Eyr GNSS Receiver

GPS (L1C/A, L1C, L2P(Y), L2C, L5) Signal Tracking

> Galileo (E1, E5a, E5b, E6) QZSS (L1, L2, L5, L6*) NavIC (L5) SBAS(L1, L2, L5)

PPP(B2b-PPP, Galileo E6-HAS)

No. of Channels

Static and Fast Static **Post Processing Kinematic**

(PPK / Stop & Go)

Positioning rate

Code Differential GNSS Positioning

Real Time Kinematic (RTK)

Time to first Fix

Tilt Survey Performance³

Hi-Fix⁴

COMMUNICATION

Communication

Internal UHF Radio

PHYSICAL

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SATLAB

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BDS (B1I, B2I, B3I, B1C, B2a, B2b) GLONASS (L1, L2, L3)

High-precision static GNSS Surveying H:2.5 mm + 0.1 ppm RMS / V:3.5 mm + 0.4 ppm RMS H:2.5 mm + 0.5 ppm RMS / V:5 mm + 0.5 ppm RMS H:8mm + 1 ppm RMS / V:15 mm + 1 ppm RMS

> Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically>99.9%

H: 10cm / V: 20cm

H:±0.25m+1ppm RMS | V:±0.5m+1ppm RMS | SBAS:0.5m(H) H:8 mm+1ppm RMS / V:15 mm+1 ppm RMS

Initialization time: Typically <10 s

Initialization reliability: Typically > 99.9%

1 Hz, 5 Hz and 10 Hz

Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s Additional horizontal pole-tilt uncertainty typically less than

8 mm +0.7 mm / °tilt (0° ~ 60°)

H:RTK+10 mm / minute RMS / V:RTK+20 mm / minute RMS

Bluetooth: 4.0 / 2.1+EDR, 2.4 GHz / NFC

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

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

Working Range: Typically 3~5km, optimal 8~15km

Internal battery[®] Internal 7.2 V / 6900 mAh lithium-ion rechargeable battery.

RTK Rover (UHF/Cellular) for 24 hours. | Static: up to 24 hours Power consumption: 4.2W | Dimensions (W×H): 130mm×79mm **External power** 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

Control Panel Satellite, Signal, Power | Physical button: 1 LED Lamp

Camera 2MP&5MP Pixel

Support real scene stakeout, image measurement, working distance 2~15m

Environment

IP68 Water / Dustproof

MIL-STD-810G, Shock and vibration

Designed to survive a 2 m natural fall onto concrete Humidity 100%, condensing -40°C ~+75°C Operation temperature

-55°C ~+85°C

Image Accuracy

Storage temperature

Image Stakeout Typically 1cm

Image Measurement 2cm~4cm(range 2~15 m)

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

Data Formats

Output rate 1Hz-20Hz. Static data format GNS, Rinex

Network model VRS, FKP, MAC; supports NTRIP protocol

Real Time Kinematic (RTK) RTCM 2.x, RTCM 3.x, CRM

Navigation outputs ASCII NMEA-0183

*Description and Specifications are subject to change without notice.

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[1] DZSS L6 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, at conditions and multi-path validation, etc. The data are derived under normal conditions.

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

[4] Accuracies are dependent on GNSS satellite availability. Hi-Fix Positioning ends after 5 minutes without differential data. Hi-Fix is not available in all regions, check with your local sale information.

