

Eyr GNSS Receiver

Data Specifications

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| GNSS Signal Tracking^① | GPS (L1C/A, L1C, L2P(Y), L2C, L5) BDS (B1I, B2I, B3I, B1C, B2a, B2b) GLONASS (L1, L2, L3) Galileo (E1, E5a, E5b, E6*) SBAS(L1, L2, L5) QZSS (L1, L2, L5, L6*) IRNSS (L5*) L-BAND*(B2b-PPP*) |
| No. of Channels | 1408 |
| POSITIONING PERFORMANCE^② | |
| High-precision static GNSS Surveying Static and Fast Static Post Processing Kinematic (PPK / Stop & Go) | 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% |
| Code Differential GNSS Positioning | H:±0.25m+1ppm RMS V:±0.5m+1ppm RMS SBAS:0.5m(H) / PPP:0.1m(H), 0.2m(V) |
| Real Time Kinematic (RTK) | H:8 mm+1ppm RMS / V:15 mm+1 ppm RMS Initialization time: Typically <10 s Initialization reliability: Typically > 99.9% |
| Time to first Fix | Cold start:< 45 s Hot start:< 30 s Signal re-acquisition:< 2 s |
| Tilt Survey Performance^③ | Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5 cm accuracy in the inclination of 60°) |
| Hi-Fix | H:RTK+10 mm / minute RMS / V:RTK+20 mm / minute RMS |
| COMMUNICATION Communication | Bluetooth: 4.2 / 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. |
| Internal UHF Radio | |
| PHYSICAL Internal battery^④ | 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 |
| External power | |
| Control Panel LED Lamp | Satellite, Signal, Power Physical button: 1 |
| Camera Pixel | 2MP&5MP Support real scene stakeout, image measurement, working distance 2~15m |
| Environment Water / Dustproof | IP68 |
| Shock and vibration | MIL-STD-810G, Designed to survive a 2 m natural fall onto concrete |
| Humidity | 100%, condensing |
| Operation temperature | -45 C ~+75 C |
| Storage temperature | -55 C ~+85 C |
| Image Accuracy Stakeout/Image Measurement | Typically 2cm/2cm~4cm |
| I / O Interface USB type C interface; SMA interface; Nano SIM card slot | |
| Data Formats Output rate | 1Hz-20Hz. |
| 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 |

*Description and Specifications are subject to change without notice.

[1]GALILEO E6, QZSS L6, IRNSS L5, L-BAND 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.

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CE FC IP68

