

Technical Specification

| GNSS Feature | Specification | |
|--------------------------|---|--|
| GNSS Signal ^② | Channels | 1408 |
| | BDS | B1I, B2I, B3I, B1C, B2a, B2b* |
| | GPS | L1 C/A, L1C*, L2P(Y), L2C, L5 |
| | GLONASS | L1, L2, L3* |
| | GALILEO | E1, E5a, E5b, E6* |
| | QZSS | L1, L2, L5, L6* |
| | IRNSS | L5* |
| | SABS | L1, L2, L5 |
| L-Band | B2b PPP (Only for the Asian-Pacific region) | |
| Positioning Performance | High-precision static GNSS Surveying | Horizontal: 2.5mm + 0.1ppm RMS Vertical: 3.5mm + 0.4ppm RMS |
| | Static and Fast Static | Horizontal: 2.5mm + 0.5ppm RMS Vertical: 5mm + 0.5ppm RMS |
| | Post Processing Kinematic (PPK / Stop & Go) | Horizontal: 8mm + 1ppm RMS Vertical: 15mm + 1ppm RMS Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically >99.9% |
| | Code Differential GNSS Positioning | Horizontal: ±0.25m+1ppm RMS Vertical: ±0.5m+1ppm RMS SBAS: 0.5m (H), 0.85m (V) |
| | Real Time Kinematic (RTK) | Horizontal: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS Initialization time: Typically <10s Initialization reliability: Typically > 99.9% |
| | Time to first Fix | Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s |
| | M-Fix ^① | Horizontal: RTK+10mm / minute RMS Vertical: RTK+20mm / minute RMS |
| Tilt Survey Performance | Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5cm accuracy in the inclination of 60°) | |
| Communication | Communication | Bluetooth: 4.2 / 2.1+EDR, 2.4GHz Wi-Fi: frequency 2.4GHz, Supports 802.11 b / g / n Frequency: 410-470MHz Channel: 116 (16 scalable) Transmitting power: 0.5W / 1W / 2W adjustable |
| | Internal UHF Radio | Supports multi-communication protocols: TRIMTALK450ST, CHC, HI-TARGET, TRIMMARK III, TRANSEOT, SOUTH 9600, SOUTH 19200 |
| Physical | Internal battery | Internal 7.4V / 6800mAh lithium-ion rechargeable battery RTK Rover (Network) for 12 hours Static: up to 15 hours |
| | External power | Power consumption: 4.2W Dimensions (W×H): 132mm×67mm Charging: using standard smartphone chargers or external power banks Weight: ≤0.8kg (includes battery) Data storage: 8GB ROM internal storage |
| Control Panel | LED Lamp | Satellite, Signal, Power |
| | Physical button | 1 |
| Environment | Water / Dustproof | IP68 |
| | Shock and vibration | Designed to survive a 2m natural fall onto concrete |
| | Humidity | 100%, condensing |
| | Operation temperature | -30°C ~ +70°C |
| I / O Interface | Storage temperature | -40°C ~ +80°C |
| | 1 × USB port, Type C | |
| Data Formats | 1 × SMA antenna connector | |
| | Output rate | 1Hz-20Hz |
| | Static data format | GNS, Rinex |
| | Network model | VRS, FKP, MAC; supports NTRIP protocol |
| Data Formats | CMR& RTCM | CMR, RTCM 2.x, RTCM 3.0, RTCM 3.2 |
| | Navigation outputs ASCII | NMEA-0183 |

1.*Description and Specifications are subject to change without notice.

2.*BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.



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Meridian

M6 GNSS RECEIVER



To be the Best
GNSS Solution Provider

CE FCC IP68

Meridian M6

GNSS RTK

Meridian M6 GNSS RTK receiver is the ultimate solution for high-precision positioning in any environment, brings superior performance and high efficiency to support your fieldwork with reliable solutions. With its advanced technology, the M6 delivers centimeter-level accuracy and reliability, even in challenging conditions.

Multiple constellation and frequency tracking, powerful RTK engine, calibration-free tilt compensation IMU technology makes M6 receiver easy to get fixed solution in most demanding environments, brings you to focus on your surroundings and not the bubble to measure the points that previously could not be measured, making your stake out more efficiently and conveniently than ever before with increased speed, safety and comfort and greatly improving your working efficiency.

KEY FEATURES

- Full-constellation Tracking
- Advanced RTK Engine
- Web UI
- Built-in Radio
- NFC
- Compatibility With Third-party Software



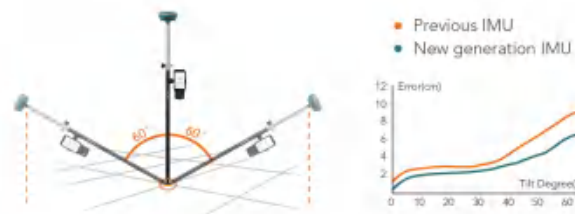
More Portability

The Meridian M6 GNSS RTK Receiver offers reliable solutions for fieldwork with superior performance and high efficiency. Its advanced RTK engine and new-generation IMU result in a 25% improvement in performance, even in the most challenging environments. This makes the Meridian M6 a dependable tool for enhancing productivity.



Greater Flexibility

With its self-developed built-in IMU and core algorithm, it can deliver precise and dependable outcomes, thus enhancing the efficiency of fieldwork.



User-friendly WebUI

The M6 has a user-friendly interface that is easy to navigate, allowing users to quickly access and modify settings.



Higher Accuracy and Precision

Using the High-Performance Patch Antenna improves the ability to track satellites at low elevation angles while maintaining high gain for higher elevation satellites.



HDL460A External Radio

KEY FEATURES

- HD OLED display.
- The longest communication distance with the comparison products in the industry.
- Real-time voltage detection.
- Compatible with major radio protocols in the industry.
- The adaptive frequency can adapt the default frequency of different manufactures 10 W, 35 W power can be set up.
- Industrial-grade processing platform.

