

Signal Tracking

Channels: 1668
GPS: L1C/A, L2P, L1C, L2C, L5
BeiDou: B1I, B2I, B3I, B1C, B2a, B2b
GLONASS: G1, G2, G3
Galileo: E1, E5b, E5a, E5AltBoc, E6c
QZSS: L1C/A, L2C, L5, L1C
NAVIC: L5
SBAS: L1C/A, L5
PPP: B2b & HAS
L-Band ¹

Performance Specification

Signal Re-acquisition: ≤1s
Cold start: < 45 s
Hot start: < 15 s
Initialization time: < 5s (Baseline≤10km)
Initialization reliability: > 99.9%
Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

Mode	Accuracy
Static and Fast Static	Horizontal 2.5 mm + 0.5 ppm RMS Vertical 5 mm + 0.5 ppm RMS
Long Observations Static	Horizontal 3 mm + 0.1 ppm Vertical 3.5 mm + 0.4 ppm
Signal Baseline RTK	Horizontal 8mm + 1ppm RMS Vertical 15mm + 1ppm RMS
DGPS	< 0.4m RMS
SBAS	0.5 m Horizontal 0.8 m Vertical
Standalone	1.5m 3D RMS
Laser Tilt Measurement	≤5cm (10m range, ≤60°Tilt in laser mode)

Communication

1 Serial port: Baud rate up to 921,600 bps
Datalink ² :
Rx with full frequency range from 410-470MHz

Protocol type: support Transparent/TT450S/South/Mac/Maxlink/Maxlink+, compatible with all the MaxNav GNSS Receivers
WiFi: 802.11 a/b/g/n, 5GHz
Position data output rates: 1Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
2 LEDs (indicating Satellites Tracking and Differential Data)
Bluetooth [®] : V4.0 protocol, compatible with Windows OS and Android OS
Auto-IMU integrated for tilt survey, up to 120°tilt with 2.5 cm accuracy

Environmental Specification

Working Temperature: -20°C to +65°C (-4°F to 117°F)
Storage Temperature: -40°C to +85°C (-40°F to 153°F)
Humidity: 100% non-condensing
Waterproof & Dustproof: IP67
Shock: Survive a 2m drop onto the concrete

Physical Specification

Housing Material: Aluminium Magnesium Alloy
Dimension: < 11cm
Weight: < 500 g
Button: Power Button*1

Electrical and Battery

Voltage: 5V/9V
Li-ion Battery Capacity: 5000mAh
Power Consumption: 1.8W
Working Time: 16h
Interface: Type-C
Memory: 4 GB ³

- 1. PPP Service is optional.
- 2. UHF modem is default configuration and it can be removed according to your specific needs.
- 3. Memory is expandable.



MaxNav Technology Ltd.

Ad: 3F, Building 1, No. 400 Fangchun Road, China (Shanghai) Pilot Free Trade Zone, 201203, Shanghai, China
Email: sales@maxnav.com
Tel : +86 21 64056796 Fax: +86 21 54309582
Web: www.maxnav.com



| M8 Laser GNSS Receiver

M8 Laser GNSS receiver integrates advanced GNSS technology with 1668 channels and supports full constellation tracking, ensuring stable satellite acquisition and fast fixed, even in challenging environments, while maintaining high-precision operation.

With the combination of IMU, laser, and dual camera modules, along with 120° tilt compensation and new visual stakeout functions, the M8 offers a unique operating experience. Its ultra-compact design and lightweight features, along with the new measurement handle, eliminate the need for a pole, making your construction and surveying tasks easier and more efficient.

Laser and Visual Technology



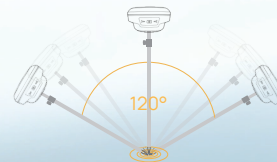
M8 Laser GNSS receiver is equipped with an accurate green laser, capable of quickly measuring coordinate points over long distances. It is suitable for working in special areas. In addition, it comes with a front camera and a bottom camera, enabling quick measurements and efficient stakeout.

Full-Constellation Multi-Frequency



M8 Laser GNSS receiver supports full satellite systems, with 1668 channels, enabling fast fixed and significantly improving your productivity. It also supports PPP (HAS & B2B) .

Auto-IMU



M8 Laser GNSS receiver comes with an Auto-IMU, supporting a maximum tilt compensation of 120°, and an automatic calibration function, simplifying fieldwork by eliminating manual adjustments. This means you can measure instantly as you move.

Compact Design



With its ultra-compact size and lightweight design, the M8 fits easily into your pocket. Paired with the measurement handle, there's no need for a center pole, making your operations lighter and more efficient.

| C50 Data Collector

New exterior design, customized for engineers, more comfortable hold

Large capacity 7000mAh battery, QC3.0 quick charging, long-lasting operation

With advanced NFC, tedious matching is a thing of the past

Qualcomm processor Android 12 operation system, faster performance, smoother operation

4+64GB memory

Survive a 1.5m drop onto the concrete, anti-static design, excellent heat dissipation

Classic 9-key and center measurement shortcut speed up working efficiency

5.0 dual-mode Bluetooth, ultra long range Bluetooth connection

5.5-inch sunlight readable screen, 720*1280 resolution



NFC

NFC



5.5" Display



Ultra-long Range Connectivity



Android 12



LARGE CAPACITY

IP67

IP67

