

Signal Tracking

hannels: 1598
GPS: L1C/A,L2P,L1C,L2C,L5
BeiDou: B1I,B2I,B3I,B1C,B2a,B2b,B2b-ppp
GLONASS: G1C,G1P,G2C,G2P,G3
Galileo:E1,E5b,E5a,E5AltBoc,E6c
QZSS: L1C/A,L2C,L5,L1C,L1s,L5s,L6
NAVIC: L6
SBAS: WAAS, EGNOS, MSAS, GAGAN,SDCM

Performance Specifications

Signal Re-acquisition: ≤1s
Cold start: < 50 s
Warm start: < 30 s
Hot start: < 15 s
Initialization time: < 10 s
Signal re-acquisition: < 1.5 s
Initialization reliability: > 99.9%

Mode	Accuracy
Single Baseline RTK	8mm +1ppm Horizontal 15mm +1ppm Vertical
Static and Fast Static	2.5mm +0.5ppm Horizontal 5mm +0.5ppm Vertical
Long Observation Static	3mm +0.1ppm Horizontal 3.5mm +0.4ppm Vertical
DGPS	< 0.4m RMS
SBAS	0.5m Horizontal 0.8m Vertical
Standalone	1.5m 3D RMS

Communications

Type-C
- Baud rates up to 921,600 bps UHF modem
- Tx/Rx with full frequency range from 410-470 MHz
- Transmit power: 0.5-2 W adjustable
- Range: 15 km
WIFI: 802.11b/g/n
Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
2LEDs (indicating Satellites Tracking, RTK Corrections Data)

1 Function buttons for Power
Bluetooth® : V 4.0 protocol, compatible with Windows OS and Android OS
Calibration-free IMU integrated for tilt survey up to 60°tilt with 2.5 cm accuracy

Data Format

Correction data I/O:
- RTCM 2.X, 3.X, CMR (GPS only), CMR+ (GPS only)
Position data output:
- ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GCK

Physical

Size:13*13*10cm
Weight:790g(include battery)

Environmental

Operating temperature: -40 °C to + 65 °C (-40 °F to 149 °F)
Storage temperature: -40 °C to + 85 °C (-40 °F to 185 °F)
Humidity: 100% non-condensing
Waterproof and dustproof: IP67, protected from temporary immersion to depth of 1 m
Shock: Designed to survive a 2 m drop onto concrete

Electrical and Memory

Input voltage: 6-28 VDC
Power consumption: 1.4 W
Battery Capacity: 5000mAh,7.4V
Memory: 8 GB

Software

MaxNav Android-based data collection software
FieldGenius field data collection software (optional)

1.8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.
2.Working distance of internal UHF varies in different environments, the maximum distance is 15km in ideal situation.
Specifications subject to change without notice.



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Make surveying easier and faster

M6 Pocket

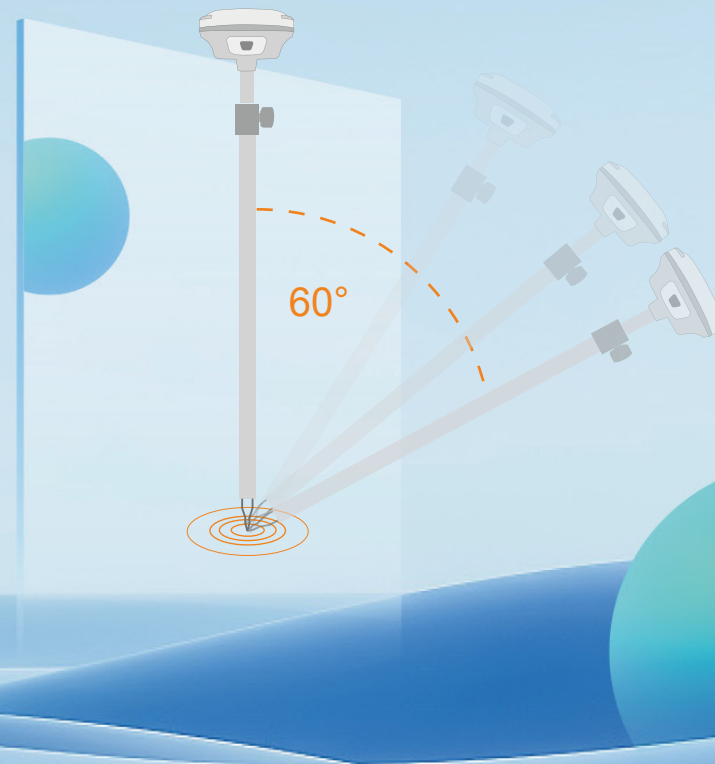
GNSS Receiver

M6 Pocket GNSS Receiver

The M6 Pocket GNSS receiver is designed with super small size and lightweight. By integrating the latest IMU-RTK technology, it can deliver high reliable and accurate positioning in challenging situations. And the IMU-based 60° tilt surveying function enables you surveying without leveling the pole, making your construction and surveying work done easier and faster.

You just need to shake poles to initialize IMU Less than 10 seconds first calibrations can last long time working hours. Up to 60° tilt compensation with 2.5cm accuracy, convenience and reliability are guaranteed at the same time.

IMU-BASED TILT SURVEYING SIMPLIFIES SURVEYING PROCESS



With integrated 1598-channel GNSS technology, M6 Pocket support all the current and future GNSS signals, providing robust RTK availability and reliability. The adopted anti-interference algorithm technology improves fixed rate in a large extent.

FULL CONSTELLATION TRACKING ENSURES RELIABLE PERFORMANCE



M6 Pocket supports NFC fast connection, you can automatically connected with data collector just a touch. It has multiple high-end connectivity modules including Bluetooth, Wi-Fi, NFC, and UHF radio modem. The internal LorRa UHF allows super-long-distance working range up to 15 km, making it working easier within RTK networks.

COMPACT AND USER-FRIENDLY DESIGN BRINGS FATIGUE-FREE AND SMOOTH WORKING EXPERIENCE



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



Qualcomm



1080P Resolution



5.5" Display



Full QWERTY



Android 12



LARGE CAPACITY



IP67