

CHCNAV



**M6**

—  
**Survey & Engineering**

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Make your work more efficient

# Core Technology

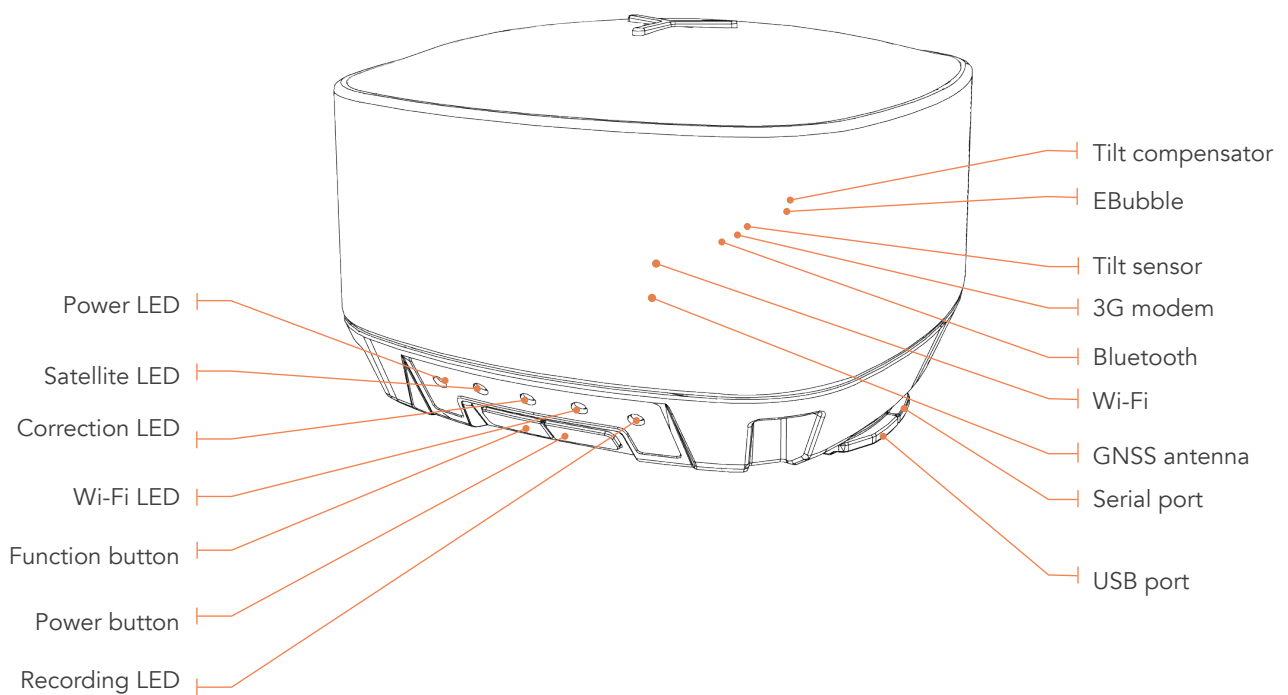
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## M6 Network Rover

### Pro Series

The M6 GNSS receiver is a new-generation high-end GNSS network receiver designed for RTK field survey work. Designed for RTK network corrections, the M6 receiver is easy-to-use in any construction sites.

Harnessing the latest generation of GNSS engine, the M6 achieves state of the art signal tracking and processing of multi-constellation GPS, GLONASS, BeiDou and Galileo, ensuring outstanding precision even in the most difficult environments.

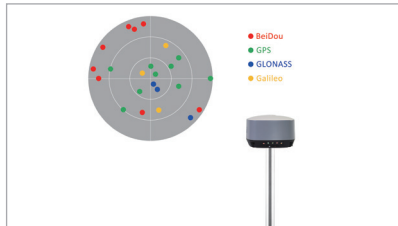


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## Network Rover

The M6 receiver is optimized for RTK surveying using NTRIP Network corrections.

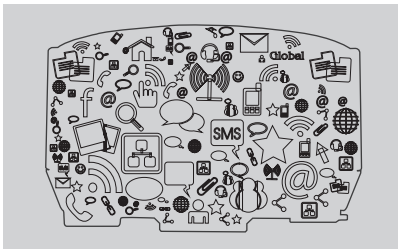


## 220 Channels Multi-constellation

Fully supports the tracking of GPS, GLONASS, Galileo, BeiDou and SBAS satellite signals.

## Compact

Extremely compact and lightweight for intensive field operations.



## Easy Set Up without Software

The intelligent embedded Linux operating system enables the receiver to be configured via a website from any smart devices. This eliminates the need for software or dedicated data collect to control the receiver.

## Rugged Design

The rugged and durable design meets the IP67 environmental standard for water and dust. The M6 can survive a 2 m drop onto concrete.



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## Applications



# Specifications

## GNSS Satellite Tracking

<b>CHANNELS</b>	220
<b>GPS</b>	L1C/A, L1C, L2C, L2E, L5
<b>GLONASS</b>	L1C/A, L1P, L2C/A, L2P, L3
<b>GALILEO</b>	E1, E5A, E5B
<b>BDS</b>	B1, B2
<b>SBAS</b>	L1C/A, L5 (QZSS, WAAS, EGNOS, GAGAN)

## Positioning Accuracies<sup>(1)</sup>

<b>Network RTK</b>	Horizontal: 8 mm + 0.5 ppm RMS Vertical: 15 mm + 0.5 ppm RMS Initialisation Time: < 10 s Initialisation Reliability: > 99.9%
<b>Real time kinematics(RTK)</b>	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialisation Time: < 5 s Initialisation Reliability: > 99.9%
<b>Post-processing kinematic (PPK)</b>	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS
<b>Post-processing static</b>	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 3.5 mm + 0.5 ppm RMS
<b>SBAS</b>	0.5 m RMS

## Mechanical

<b>Size (H x W)</b>	83 mm x 127 mm (3.3 in x 5 in)
<b>Weight</b>	0.93 kg (2.1 lb) 1.04 kg (2.3 lb) with battery
<b>Environment</b>	Operating: -40°C to +65 °C (-40°F to +149°F) Storage: -40°C to +85°C (-40°F to +185°F)
<b>Humidity</b>	100% condensation
<b>Dust and water proof</b>	IP67
<b>Shock and vibration</b>	2 m (6.56 ft) fall onto concrete, MIL-STD-810G, Method 514.7
<b>Tilt sensor</b>	EBubble Tilt compensator <sup>(2)</sup>

## Communications and Data Recording

<b>Network modem</b>	Integrated 3.75G modem HSPA+ 21 Mbps (download), 5.76 Mbps (upload) WCDMA 850/900/1700/1900/2100 EDGE/GPRS/GSM 850/900/1800/1900
<b>WiFi</b>	802.11 b/g/n, access point mode
<b>Bluetooth®</b>	V4.1
<b>Ports</b>	2 x 7pin LEMO port (external power, data download, firmware update)

## Electrical

<b>Power consumption</b>	3.2 W (depending on user settings)
<b>Li-ion battery capacity</b>	3400 mAh, 7.4 V
<b>Operating time<sup>(3)</sup></b>	Up to 6 h in RTK rover mode
<b>External power input</b>	12 V DC to 36 V DC

\*Specifications are subject to change without notice.

(1) Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric conditions. Performances assume the minimum of 5 satellites, follow up of recommended general GPS practices.

(2) The accuracy of tilt compensator varies with operating environment and electromagnetic pollution.

(3) Operating time varies based on temperature.

**SURVEYOUR®**

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