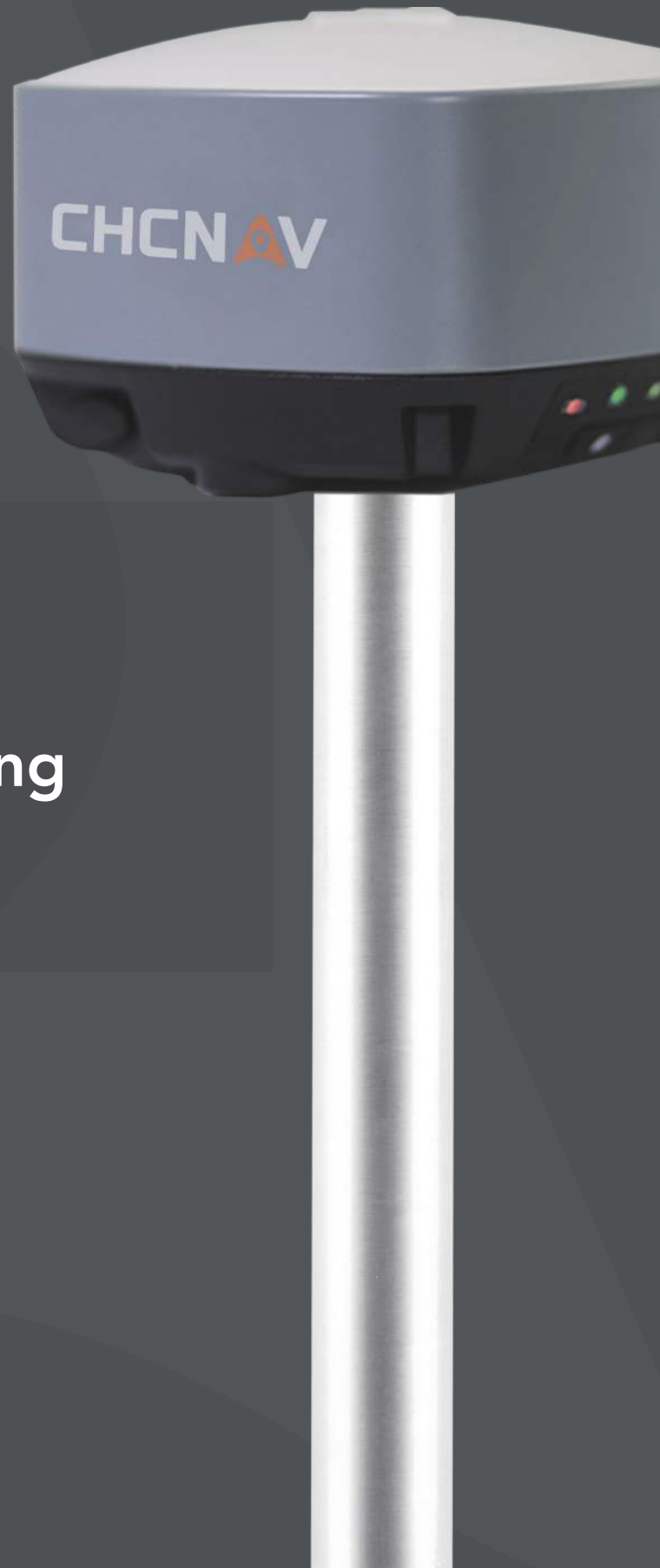




M6

Survey & Engineering



Make your work more efficient

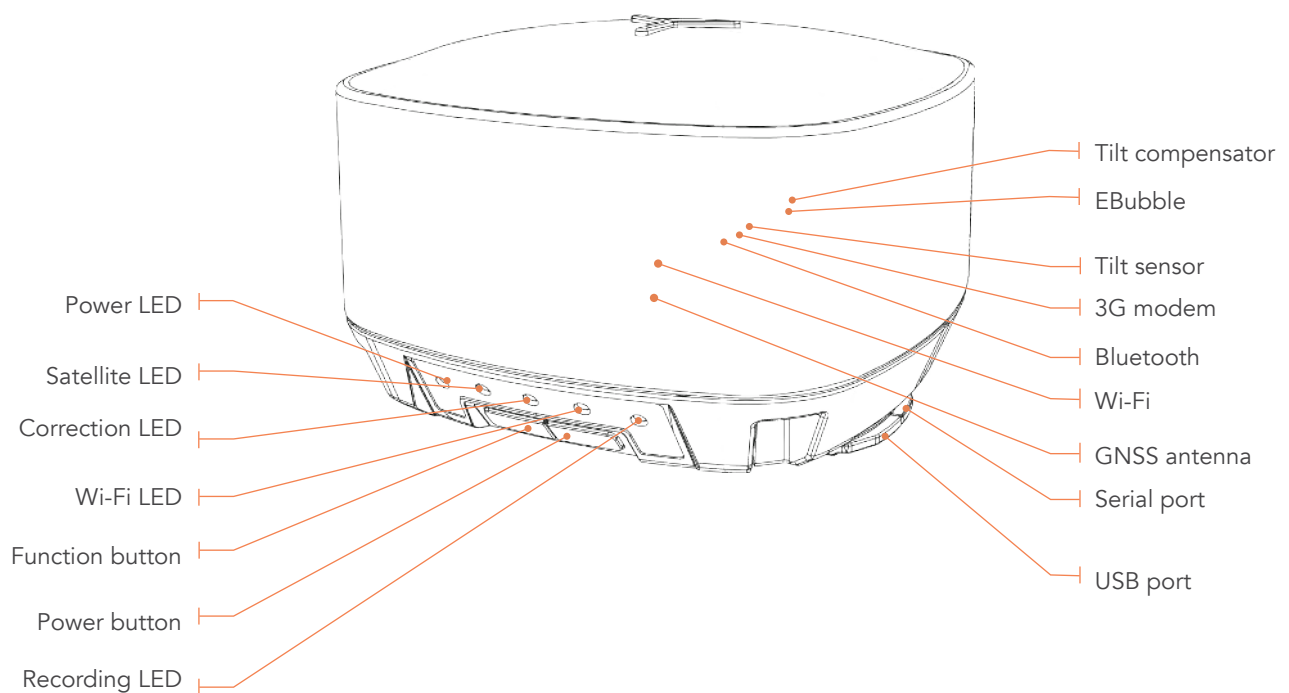
Core Technology

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.



Core Technology

Network Rover

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

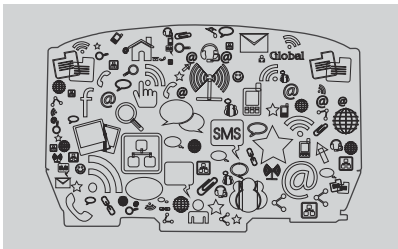


220 Channels Multi-constellation

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.



Applications



Specifications

GNSS Satellite Tracking

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

Positioning Accuracies⁽¹⁾

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

Mechanical

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

Communications and Data Recording

Network modem	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
WiFi	802.11 b/g/n, access point mode
Bluetooth®	V4.1
Ports	2 x 7pin LEMO port (external power, data download, firmware update)

Electrical

Power consumption	3.2 W (depending on user settings)
Li-ion battery capacity	3400 mAh, 7.4 V
Operating time⁽³⁾	Up to 6 h in RTK rover mode
External power input	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.



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