M6 DEALERS' FAQ

1.   What is M6 GNSS?

The CHC M6 GNSS receiver is a new-generation GNSS network receiver designed for high end RTK field.

Integrated powerful GNSS engine, M6 performs as top-level GNSS satellites tracking and position solving capacity. GPS, GLONASS, Galileo and BeiDou support M6 seamless working in every corner among world.

Compatible with filed data collection software running on Android OS, M6 is the best choice for a future-proof GNSS receiver leaving you more options at present or in the future.

2.   What are the key features of M6?

- ✓ Latest future proof 220 channel Trimble BD930 GNSS board (GPS, GLONASS, GALILEO and BDS)

- ✓ Outstanding RTK performances in both network RTK and base + rover configuration.
    - ☐ Horizontal: 8mm+0.5ppm RMS for network RTK; 8mm+1ppm RMS for single baseline
    - ☐ Vertical: 15mm+0.5ppm RMS for network RTK; 15mm+1ppm RMS for single baseline

- ✓ Communication
    - ☐ 2x7pin RS232 serial port (external power, USB data download, USB update, RS-232)
    - ☐ Integrated Bluetooth ® communications port
    - ☐ Cellular: integrated 3.75G Modem
    - ☐ Wi-Fi: 802.11b/g/n, access point mode

3.   Which field software are available with M6 GNSS?

The M6 can be bundled with CHC Landstar data collection software (V6.1.2.6624 and above) as well as the Carlson SurvCE (v4.90.27 and above).

4.   What key features come with field software?

- ✓ Landstar:
    - ☐ External UHF start base function
    - ☐ Data Collector Internet Rover RTK
    - ☐ Internal GSM Rover RTK
    - ☐ RTK positioning rate at 1HZ, 2HZ and 5HZ
    - ☐ Correction types: CMR, CMR+, RTCM2.3, RTCM3.0 and RTCM3.2 for both Base and Rover.
    - ☐ PPK function
    - ☐ Auto measurement with G-sensor.
    - ☐ E-bubble on screen
    - ☐ Tilt corrected survey

✓ SurvCE (Coming soon)
- ☐ Data Collector Internet Rover RTK
- ☐ Internal GSM Rover RTK
- ☐ RTK positioning rate at 1HZ, 2HZ and 5HZ
- ☐ Correction types: CMR, CMR+, RTCM2.3, RTCM3.0 and RTCM3.2 for both Base and Rover.

More features will be supported by SurvCE next formal release
- ☐ External UHF start base function
- ☐ PPK function
- ☐ Correction type RTCM3.2 for both base and rover
- ☐ Auto measurement with G-sensor.
- ☐ E-bubble on screen
- ☐ Tilt corrected survey

5.   Where to download M6 supported LandStar 7 version?

M6 supported LandStar version can be found on website at play.google.com, by searching 'LandStar' to access the files.

6.   Which data controller can I use with the M6?

The M6 can be paired with all current CHC handheld controller, namely:

✓   HCE300
Other controllers can also be used with M6 but prior testing is always recommended. CHC Technical Support is ready to assist you on checking controller compatibility.

7.   Can I set up the M6 just in my office?

Yes, the user can remotely control the M6 even in the field via any browser. The built-in Wi-Fi modem provides RTK corrections and serves data via 802.11 Wi-Fi to nearby devices. The hotspot feature also allows for connectivity and configuration via any browser supported device which removes the classical limitation of expensive propriety data collection devices for hardware setup.

8.   Can I set up the M6 as RTK Base?

Yes, the user can remotely set the M6 for base by external UHF datalink or work with internal network modem for CHC APIS base mode.

9.   What are the items delivered with M6?

The Standard M6 package includes the following items:
· 1× M6 GNSS Receiver

The Base Accessory Kit is:
· 1×Lithium Battery
· 1×H.I. Tape
· 1×Auxiliary H.I. Tool
· 1×Extension Pole
· 1×Tribrach w/Optical Plummet
· 1×Tribrach Adaptor
· 1×Transport Hard Case

The Rover Accessory Kit is:
· 1×Lithium Battery
· 1×Battery Charger w/Power Adapter with cord
· 1×Auxiliary H.I. Tool
· 1×2M Range Pole w/ Bag
· 1×M6 OTG Cable
· 1×M6 USB Cable
· 1×M6 GPS to PC Data Cable
· 1×Transport Hard Case

M6 Base Kit   M6 Rover Kit

10.   When can I purchase the M6 receiver?

The M6 series is available as of November 1st, 2017 for order and shipment. You can contact your usual Regional Sales Manager for quotation.