

X900 GNSS



KEY FEATURES

- *72-channel core GNSS including GPS and GLONASS*
- *Solid performance GNSS RTK positioning covering wide range of applications*
- *CHC's Landstar field data collection software*
- *Integrated Bluetooth, GPRS and radio modem*
- *Innovative and rugged design built for harsh environment*

The CHC X900 is the GNSS survey solution selected by large number of surveyors for its outstanding performances and reliability. The X900 is the most cost effective GNSS RTK receiver designed for every day field works.

Solid RTK Performances

The X900 offers greater performances with GNSS functionality. The GPS+GLONASS feature increases availability in obstructed sky conditions such as construction sites in urban areas while securing RTK accuracy and fast initialization.

Competitive and Reliable

The X900 GNSS is the first-choice solution for GPS+GLONASS RTK surveying at fraction of cost.

Ease of use

Built-in GNSS engine, antenna, Bluetooth® communication and optional UHF and GSM/GPRS modules in one single unit. Its optimized power management allows half day of non-stop RTK work with a single battery.

Compact and rugged

The size of 84mm×190mm×200mm makes the X900 only weight 1.4kg. It significantly reduces tiredness of the surveyors in the field work.

Technical Specifications

GNSS characteristics

- 72-channel signal tracking
 - GPS: L1, L2, L2C, L5
 - GLONASS: L1, L2
 - SBAS
- Advanced multipath mitigation technology
- Low noise carrier phase measurement

Performance specifications ⁽¹⁾

- Real Time Kinematics (RTK)
 - Horizontal: 10 mm + 1 ppm RMS
 - Vertical: 20 mm + 1 ppm RMS
 - Initialization time: < 10 s
 - Initialization reliability: > 99.9%
- Post Processing Static
 - Horizontal: 5 mm + 1 ppm RMS
 - Vertical: 10 mm + 1 ppm RMS

Communications

- 1x RS232 serial port
- 1x high speed USB
- Integrated Bluetooth® class 2
- Optional GSM/GPRS modem
- Optional radio modem:
 - Internal Rx: 450-470 MHz
 - External Tx DL5: 1W - 20W adjustable⁽²⁾
- Protocols:
 - RTCM2.1, RTCM2.3, RTCM3.0, CMR, CMR+
 - NMEA0183 output
 - RINEX and HCN outputs for GNSS raw data
- Data Storage:
 - 4 GB internal memory (GPS device mounts as a USB external hard drive)

Physical

- Size (LxWxH): 190 x 200 x 84 mm (7.5 x 7.9 x 3.3 in)
- Weight: 1.4 kg with battery (49 oz)
- Operating temperature: -40 °C to +65 °C (-40°F to 149°F)
- Storage temperature: -40 °C to +75°C (-40°F to 167°F)
- Humidity: 100% condensation
- Waterproof and dust proof: IP67 - protected from temporary immersion to depth of 1 meter, floats
- Shock: survives a 2-meter drop on to concrete

Electrical

- Power consumption: 2.6 W
- Li-ion battery capacity: 2200 mAh
- Battery life: typical 5 hours in RTK mode
- External power input: 9-18 VDC

Software (optional)

- CHC's Landstar field data collection software

⁽¹⁾ Accuracy and reliability specifications may be affected by multi path, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. ⁽²⁾ UHF type approvals are country specific. Specifications are subject to change without notice.

© 2013 - Shanghai HuaCe Navigation Technology Ltd . All rights reserved. The Bluetooth® world mark and logos are owned by Bluetooth SIG, Inc. The CHC logo and CHC are trademarks of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners – Rev. September 2013

CHC - Shanghai HuaCE Navigation Technology Ltd.
Building 35, n° 680 Guiping Road
200233 Shanghai – China

Tel : +86 21 542 60 273
Fax : +86 21 649 50 963

Email : sales@chcnv.com | www.chcnv.com