

X900S-OPUS



KEY FEATURES

- **High Precision Static L1/L2 120-channel GNSS Receiver: GPS, GLONASS and BeiDou**
- **Easy to Use - 'Single Button' operation for static operation**
- **Fast Data Download via high speed USB**
- **Compact and Rugged - Integrated rugged design for everyday intensive use**

The CHC X900S-OPUS dual-frequency GNSS receiver is designed to deliver every surveyor with high precision, robust performances and reliable technology at an affordable price. The X900S-OPUS GNSS system matches a wide range of applications requiring post-processing static or kinematic survey.

Competitive and Reliable

The X900S-OPUS breaks the price barrier for centimeter level accuracy positioning and provides extremely quick return on investment compared to equivalent L1/L2 GNSS technology or traditional optical survey equipment.

Outstanding Performances and Easy-of-use

Simply set-up your X900S-OPUS receiver and switch it on. The GNSS raw data recording starts automatically and will stop when the receiver is powered off. The combination of L1/L2 GNSS technology and advanced post-processing software allows baselines computation up to 100 km.

Compact and Lightweight

The X900S-OPUS compact design of 179 x 84 mm (7.0 x 3.3 in) with less than 1,4 kg (49 oz) makes the X900S-OPUS an easy-to-carry GNSS receiver for everyday field work.

Technical Specifications

GNSS characteristics

- 120-channel signal tracking
 - GPS: L1, L2, L2C
 - GLONASS: L1, L2
 - BeiDou: B1
- Multipath mitigation technology
- Optimized for low-elevation satellite tracking

Performance specifications⁽¹⁾

- Post Processing Static
 - Horizontal: 5 mm + 1 ppm RMS
 - Vertical: 10 mm + 1 ppm RMS
- Post-Processed Kinematic (PPK)
 - Horizontal: 5 cm + 1 ppm RMS
 - Vertical: 10 cm + 1 ppm RMS

Communications

- 1x RS232 serial port
- 1x high speed USB
- Integrated Bluetooth® class 2
- Protocols:
 - 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 (HxD): 84 x 179 mm (3.3 x 7.0 in)
- Weight: 1.4 kg with battery (49 oz)
- Operating temperature: -30 °C to + 60 °C (-22 °F to 140 °F)
- Storage temperature: -40 °C to + 70 °C (-40 °F to 158 °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
- Operating times on internal battery
 - Up to 6 hours
- External power input: 9-18 VDC

Software (optional)

- Optional CGO software
 - Static office software
 - Combined ease of use and advanced data quality control

(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 survey practices and baseline length < 100 km (static).

Specifications are subject to change without notice.

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