

X20⁺ GPS



KEY FEATURES

- *Flexible and Competitive - Cutting edge Static GPS L1 survey technology in a cost effective package*
- *Easy to Use - 'Single Button' operation for static operation*
- *Easy Data Download - High-speed USB data download insures desktop compatibility*
- *Compact and Rugged - Small, lightweight and cable free for easy field operation*

The CHC X20⁺ L1 GPS receiver is powered by a high performance GPS engine with the latest tracking technology. Static surveys are reliably completed with the shortest possible site occupations by this solid receiver.

Competitive and Reliable

Because the X20⁺ GPS system is extremely affordable, high-accuracy surveys benefit from having extra simultaneous receivers in adjustments and precision mapping applications gain from survey accuracy at mobile mapping prices.

Static: Easy to use

Position the X20⁺ and turn it on. Data recording starts automatically and collection continues until the receiver is turned off. Baselines up to 10 KM process, day or night.

Compact and Lightweight

Weighing less than 0.8 kg (1.76 lbs) with a full day battery and only 17.5 cm (6.9") in diameter, the X20⁺ is ergonomic and easy to deploy.

Technical Specifications

GNSS characteristic

- 12 channels : GPS L1 C/A code, L1 full carrier, SBAS
- Extremely low noise and multi-path error
- Optimized for low-elevation satellite tracking

Performance specifications ⁽¹⁾

- Post Processing Static
 - Horizontal: 5 mm + 1 ppm RMS
 - Vertical: 10 mm + 2 ppm RMS

Communications

- 1x RS232 serial port
- 1x high speed USB
- Protocols
 - RINEX and HCN outputs for GPS raw data
- Data Storage:
 - 4 GB internal memory
 - GPS device mounts as a USB external hard drive

Physical

- Size (HxD): 65.5 x 175 mm (2.6 x 6.9 in)
- Weight: 0.8 Kg with battery (28 oz)
- Working 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
- Dust proof: IP67
- Waterproof: protected from temporary immersion to depth of 1 meter, floats
- Shock: survives a 2 meters drop onto concrete

Electrical

- Power consumption: 1.8 W
- Battery capacity: 2200 mAh
- Operating times on internal battery
 - Up to 8 hours
- External power input: 9-18 VDC

Software.

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

⁽¹⁾ Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended survey practices and baseline length < 10 km (static).

Specifications are subject to change without notice.

iGage Mapping Corporation
1545 South 1100 East #1
Salt Lake City UT 84105
+1 801-412-0011
www.igage.com

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CHC - Shanghai HuaCe Navigation Technology Ltd.
599 Gaojing Road, Building C
201702 Shanghai, China

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

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