

# X900U

## Survey & Engineering

- 384 channels GPS + GLONASS + BDS precision static GNSS receiver in a cost-effective package
- Easy to use "Single Button" operation for static recording
- High-speed USB data download for ensuring desktop compatibility
- Integrated rugged design for every day intensive use



X900U GPS+GLONASS+BDS system is designed to enable every surveyor to access to high precision, robust performances and reliable technology but without the typical price constraints usually associated with GNSS investment. X900U GPS matches a wide range of applications requiring static positioning.

Multiple frequency support with GPS, GLONASS and BDS enable X900U to break the price barrier for cm accuracy positioning and provides a swift return on investment compared to equivalent GNSS technology or traditional optical survey equipment.

X900U compact design of 179 mm × 84 mm (7.0 in × 3.3 in) with less than 1.4 kg (49 oz) makes it an easy-to-carry GNSS receiver for daily field work.



# ■ Technical Specifications

## GNSS Characteristics

- 384 channels with all in view simultaneously tracked satellite signals
  - GPS L1, L2, L5
  - GLONASS L1, L2
  - BDS B1, B2, B3
  - SBAS WAAS, EGNOS, MSAS
- Advanced multipath mitigation technology
- Optimized for low elevation satellite tracking

## GNSS Accuracies <sup>(1)</sup>

- Post Processing Static
  - Horizontal: 5 mm + 1 ppm RMS
  - Vertical: 8 mm + 1 ppm RMS
- Network RTK
  - Horizontal: 10 mm + 1 ppm RMS
  - Vertical: 15 mm + 1 ppm RMS
  - Initialization Time: < 10 s
  - Initialization Reliability: > 99.9%

## Communications

- Serial: 1 x 10-pin LEMO port (external power, USB data download, USB update, RS-232)
- Protocols:
  - HCN outputs for GNSS raw data (convertible to RINEX static format)
- Data Storage:
  - 4 GB internal memory
  - GPS device mounts as a USB external hard drive

## Physical

- Size (D x H): 179 mm x 84 mm (7.0 in x 3.3 in)
- Weight: 1.4 kg (49 oz) with battery
- Environment:
  - Operating: -40 °C to +65 °C (-40°F to +149°F)
  - Storage: -40 °C to +75 °C (-40°F to +167°F)
- Humidity: 100% condensation
- Dust and Water Proof: IP67
- Shock and Vibration: 2 m (6.6 ft) fall onto concrete

## Electrical

- Power Consumption: 3.5 W
- Li-ion Battery Capacity: 3400 mAh
- Operating Time<sup>(2)</sup>: Up to 6 h in static mode
- External Power: 9 V DC to 18 V DC

## 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 the minimum of 5 satellites, follow up of recommended survey practices and baseline length < 100 km (static). (2) Operating time varies based on temperature.

Specifications are subject to change without notice.



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