# **US320™** GNSS Survey Receiver

# **Built Surveyor Tough**

#### SMS Communication

Send and receive status messages via SMS

### Internal Radio SS/UHF & GSM Cellular

Optional UHF 400 MHz or 900 MHz internal radio eliminates the need for cables on both base and rover setups

#### Dual Bluetooth Ports

Connecting data collectors and CDMA modem devices

#### Dual Hot-Swap Batteries

Includes two lithium ion batteries, which provides more than 10 hours of battery life

#### 2GB SD Memory Card

Removable SD card for data logging with powerful scripting capabilities

#### SureTrack<sup>™</sup> Intelligence

Hemisphere GNSS' exclusive SureTrackintelligence gives you excellent RTK performance: Longrange RTK baselines; reliable RTK in congested environments; removes concerns of mixing GNSS data from various manufacturers; even if base is GPS only, rover can deliver complete GNSS performance where others may not; RTK rover uses every satellite it's tracking, even satellites not tracked at the base.

#### Auto Level Sensor

LEDs on the front of the S320 will assist with ensuring the unit is level.

## The Complete Package

Hemisphere GNSS supplies surveyors with the complete survey solution. Our survey kit comes with:

- 2 x S320 Receivers
- 1 x XF3 Data Collector (with Pole Bracket)
- 1 x Carlson SurvCE Field Survey Software License (XF3 uses v4.0 or higher)
- 4 x Batteries + 2 x Battery Chargers
- 1 x Durable Carrying Case
- Radio Antennas + Communication and Power Cables







**GPS Receiver** 

Receiver Type: Multi Frequency GNSS Positioning Modes: RTK, L-band DGNSS, SBAS, External RTCM, Autonomous

Channels:

RTK Formats: CMR, CMR+, RTCM3, ROX Update Rate/

Recording Interval: Selectable from 1, 2, 4, 5, 10 Hz

(20 Hz available)

Performance

2DRMS (95%) RMS (67%) RTK1: 15 mm + 1 ppm 8 mm + 1 ppm Horizontal Vertical Static Performance<sup>2</sup>: 3 mm + 0.5 ppm 5 mm + 0.5 ppm

DGPS Performance<sup>2</sup>:  $0.3 \, \text{m}$ 

SBAS (WAAS)2: 0.6 m 0.3 m Autonomous, no SA: 2 1.2 m 2.5 m

Satellite Tracking

Radio and GSM Options:

GPS: L1C/A, L1P, L2P, L2C GLONASS: L1C/A, L1P, L2P, L2C/A MSAS, WAAS, EGNOS, GAGAN SBAS:

Communication Bluetooth: **Dual Port** 

> Integrated 1 x GSM/GPRS<sup>3</sup> 1 x SS 900 MHz or UHF Range: 400 MHz CDMA capable

User Interface

LED Display: 8 status LEDs

On/Off, function select Buttons: Data Storage: Removable SD/SDHC card,

USB flash drive

Ports

1 x Power Input (2-pin circular) 1 x RS232 (9-pin circular, multi-use)

1 x RS232 (DSUB 9-pin)

1 x Radio Antenna Connector

#### **Environmental**

Operating Temperature: -40°C to +70°C (-40°F to +158°F) Storage Temperature: -40°C to +85°C (-40°F to +185°F)

Up to 100% Humidity:

Enclosure: IP67, EP455, waterproof, dustproof

2 m (6.56') pole drop Shock:

Power

Weight:

Material:

Battery: 2 x Li-ion 5.2 Ah total, 7.4V

(10-hour hot swappable battery life)

External Voltage: 9 to 32 VDC

Mechanical

Dimensions: 114 mm H x 197 mm D

(4.49" H x 7.76" D) 1.51 kg (3.33 lbs) Lexan™ EXL resin



- Depends on multipath environment, number of satellites inview,
- satellite geometry, and ionospheric activity
  - Please review the AT&T 2G Network Technical Bulletin at https://hemispheregnss.com/Resources-Support/Technical-Documentation

#### Authorized Distributor:



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Power Button

Select Button

D SD Card Slot SIM Card Slot

Internal Radio

Serial Port

Tape Measure Hooks

D 2-pin Circular Power Input

Radio Antenna Connector

9-pin Circular Multi-use

UHF Radio/GSM LED Indicator

GPS Lock LED Indicator DGPS Lock LED Indicator Left Battery LED Indicator

Right Battery LED Indicator

External Power LED Indicator

O SD Card Logging LED Indicator

Li-ion Hot-Swappable Batteries

Bluetooth® LED Indicator

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