

#### 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 SureTrack intelligence 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





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# **OS320 GNSS Survey Receiver**

#### **GPS Receiver**

Receiver Type: Positioning Modes:

Channels: RTK Formats: Update Rate/ Recording Interval:

#### Performance

**R**TK·

Static Performance: DGPS Performance: SBAS (WAAS): Autonomous, no SA: 2

Satellite Tracking GPS: GLONASS: SBAS:

#### Communication

Bluetooth: Radio and GSM Options:

#### User Interface LED Display:

Buttons. Data Storage:

Ports

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

#### Environmental

Operating Temperature: Storage Temperature: Humidity: Enclosure: Shock:

#### Power

Battery:

External Voltage:

#### Mechanical Dimensions:

Weight: Material: Multi Frequency GNSS RTK, L-band DGNSS, SBAS, External RTCM, Autonomous 270

CMR, CMR+, RTCM3, ROX

RMS (67%)

Horizontal

0.3 m

0.3 m

1.2 m

Selectable from 1, 2, 4, 5, 10 Hz (20 Hz available)

2DRMS (95%) 8 mm + 1 ppm 15 mm + 1 ppm Vertical 3 mm + 0.5 ppm 5 mm + 0.5 ppm 0.6 m 2.5 m

L1C/A, L1P, L2P, L2C L1C/A, L1P, L2P, L2C/A MSAS, WAAS, EGNOS, GAGAN

Dual Port Integrated 1 x GSM/GPRS 1 x SS 900 MHz or UHF Range: 400 MHz CDMA capable

8 status LEDs On/Off, function select Removable SD/SDHC card, USB flash drive

- 1 x Radio Antenna Connector

-40°C to +70°C (-40°F to +158°F) -40°C to +85°C (-40°F to +185°F) Up to 100% IP67, EP455, waterproof, dustproof 2 m (6.56') pole drop

2 x Li-ion 5.2 Ah total, 7.4V (10-hour hot swappable battery life) 9 to 32 VDC

114 mm H x 197 mm D (4.49" H x 7.76" D) 1.51 kg (3.33 lbs) Lexan<sup>™</sup> EXL resin



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- Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activity \*\*
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## **O**Hemisphere<sup>®</sup>

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