

# S320™ GNSS Survey Receiver

## Built Surveyor Tough

### key features

- **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™ Intelligence**

Hemisphere GNSS' exclusive SureTrack intelligence gives you excellent RTK performance: Long-range 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.



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## 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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# S320 GNSS Survey Receiver

## GPS Receiver

Receiver Type: Multi Frequency GNSS  
 Positioning Modes: RTK, L-band DGNSS, SBAS, External RTCM, Autonomous  
 Channels: 270  
 RTK Formats: CMR, CMR+, RTCM3, ROX  
 Update Rate/Recording Interval: Selectable from 1, 2, 4, 5, 10 Hz (20 Hz available)

## Performance

	RMS (67%)	2DRMS (95%)
RTK:	8 mm + 1 ppm	15 mm + 1 ppm
	Horizontal	Vertical
Static Performance:	3 mm + 0.5 ppm	5 mm + 0.5 ppm
DGPS Performance:	0.3 m	
SBAS (WAAS):	0.3 m	0.6 m
Autonomous, no SA: <sup>2</sup>	1.2 m	2.5 m

## Satellite Tracking

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

## Communication

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

## User Interface

LED Display: 8 status LEDs  
 Buttons: On/Off, function select  
 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

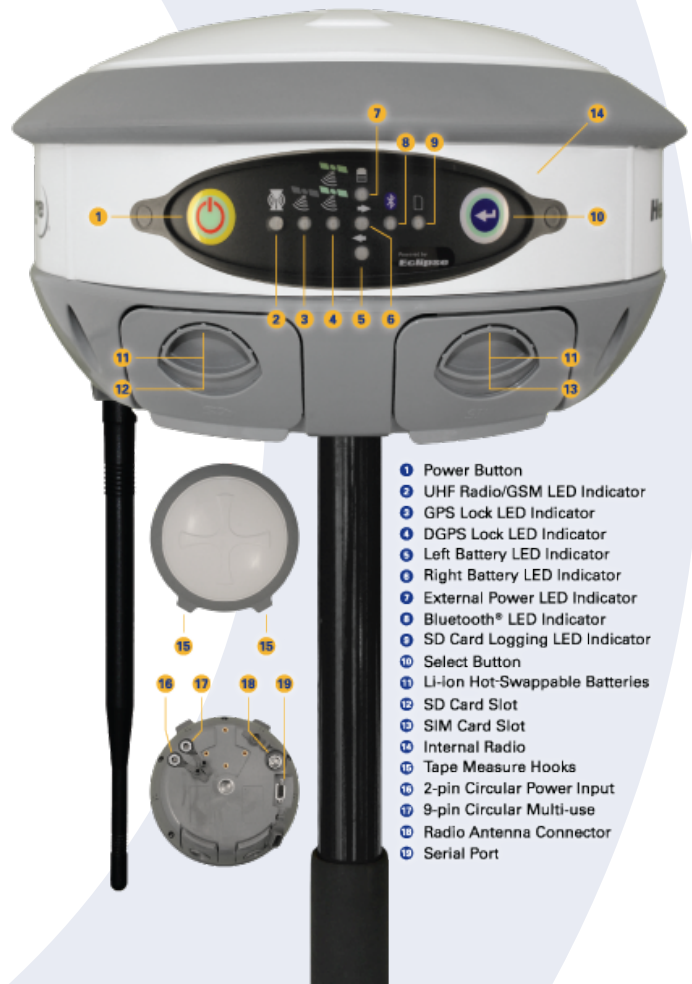
Operating Temperature: -40°C to +70°C (-40°F to +158°F)  
 Storage Temperature: -40°C to +85°C (-40°F to +185°F)  
 Humidity: Up to 100%  
 Enclosure: IP67, EP455, waterproof, dustproof  
 Shock: 2 m (6.56') pole drop

## Power

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

## Mechanical

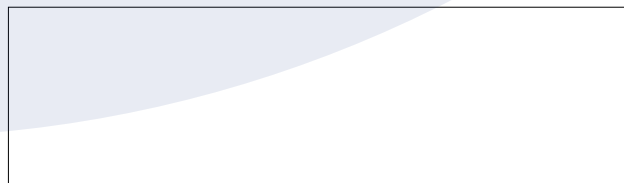
Dimensions: 114 mm H x 197 mm D (4.49" H x 7.76" D)  
 Weight: 1.51 kg (3.33 lbs)  
 Material: Lexan™ EXL resin



\* Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activity

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Authorized Distributor:



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 Rev. 09/15



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