S320 GNSS Survey Receiver



GPS Receiver

Receiver Type: Positioning Modes:

RTK Formats: OmniSTAR Formats: Update Rate/ Recording Interval:

Multi Frequency GNSS RTK, OmniSTAR (VBS/HP/XP/G2), SBAS, External RTCM, Autonomous CMR, CMR+, RTCM3, ROX VBS, HP, XP, G2

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

Performance

Static Performance: DGPS Performance: Horizontal Accuracy:

RTK: **OmniSTAR HP:** SBAS (WAAS) utonomous<u>, no SA:</u>

RMS (67%) 2DRMS (95%) 10 mm + 1 ppm 20 mm + 2ppm 0.1 m 0.2 m 0.3 m 0.6 m 1.2 m

Horizontal 5 mm + 0.5 ppm

mmunication

Bluetooth: Radio GSM Options:

1 x SS 900 MHz or UHF Range: 400 MHz CDMA capable

<0.3 m

Dual port

Integrated

1 x GSM/GPRS

8 status LEDs

USB flash drive

with audible "buzzer" alarm On/off, function select

Removable SD/SDHC card.

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) 1 x Radio Antenna Connector

Environmenta Operati

Tempe

Storag Tempe

Humid

Enclos

ng ature:	-30°C to +70°C (-40°F to +158°F)
e ature: tv:	-40°C to +85°C (-40°F to +185°F) Up to 100%
ire:	IP67, EP455, waterproof, dustproof 2 m (6.56') pole drop

Power

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

Mechanical **Dimensions:**

Weight:

Material:

114 mm H x 197 mm D (4.49" H x 7.76" D) 1.51 kg (3.33 lbs) Lexan[™] EXL resin



About Hemisphere GPS

Hemisphere GPS designs and manufactures innovative GNSS products for surveying, construction, marine, agriculture and other markets. The company is headquartered in Calgary, Alberta, with major product development, sales and marketing facilities in Arizona, Kansas and Brisbane, Australia. Hemisphere GPS is listed on the Toronto Stock Exchange (TSX) trading under the symbol "HEM" and is one of the TSX Cleantech designated companies.

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2.5 m







GNSS Survey Receiver

- SMS Communication
- L-Band DGPS Support
- Internal Radio and Cellular Modem
- Auto Level Sensor

Surveyor Tough



S320

S320 GNSS Survey Receiver

Hemisphere GPS has been designing and manufacturing GNSS technology for more than 20 years. We take pride in building rugged and reliable products for a wide range of industries from agriculture to construction and marine navigation to surveying. Hemisphere GPS' S320 survey receiver provides the quality one can expect from a trusted and experienced manufacturer. So whether you are doing GIS, mapping, land surveying or construction, S320 can be tailored to meet your needs.



Compatible with Other Survey Equipment

We designed S320 with compatibility in mind. The open source architecture of S320 makes it a ready-fit solution for your existing brands of survey equipment regardless of what make or model you currently use.

SMS Communication

S320 is capable of sending real-time SMS text messages on such indicators as battery status, signal strength and positionina.

Security Software and Asset Tracking

In conjunction with our HQ[™] asset tracking software, you can keep track of your S320 from anywhere in the world.







Select Your Options L1 GPS • L1/L2 GPS L1/L2 GPS + GLONASS SBAS

OmniSTAR®





SureTrack[™] Intelligence for **RTK**

Hemisphere GPS' exclusive SureTrack intelligence delivers superior RTK performance:

- Long-range RTK baselines
- Reliable RTK in congested environments
- Removes concerns of mixing GNSS data from various manufacturers
- With GPS only base, 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

Internal Radio

With transmit and receive capabilities, S320's optional UHF 400 MHz or Spread Spectrum 900 MHz internal radio eliminates the need for cables on both base and rover setups. In addition, activating the internal GSM/GPRS modem makes S320 an ideal rover for network RTK. The modem is self contained within S320.







Data Storage

With the SD/SDHC card slot secured behind the battery door, you can safely log large amounts of monitoring data, static observation data extended survey and projects onto the factory included 2GB memory card.

Dual Bluetooth®

S320 is equipped with dual Bluetooth ports so you can connect a data collector while connecting an external device like a CDMA modem at the same time.



Long Live S320

S320 comes standard with two long-life lithium ion batteries. That gives you more than 10 hours of battery life. The batteries are hot swappable so you can change either one during operation.

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