Hemisphere)





### GNSS Survey Receiver

- SMS Communication
- GSM Auto Corrections
- GNSS Configurable
- SureTrack™ Intelligence
- L-band DGPS Support

**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.



### **Complete Package**

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

- S320 base/rover combo
- XF1 data collector
- Carlson SurvCE software
- (2) battery chargers
- Hard case with tools

### Carlson SurvCE Software

Carlson SurvCE is a complete data collection system for Real



Time Kinematic (RTK) GPS and Total Stations with in-field coordinate geometry.

It supports the widest range of popular and new release RTK GPS and conventional/ robotic total stations.



### XF1 Data Collector

- Windows Mobile 6.1/6.5 handheld computer
- 624 MHz CPU with 256 MB RAM
- 8 GB SD card
- Wi-Fi, Bluetooth v2.0 and GSM connectivity
- Built-in 3.2 MP camera, microphone and speaker
- VGA 3.8" LCD with 480 x 640 resolution
- 3000 mAH Li-ion battery (10 hours)
- Operating Temperature: -20C to +60C
- IP65 waterproof
- Dimensions: 158 mm x 85 mm x 25 mm
- Weight: 280 g
- Carlson SurvCE and MicroSurvey FieldGenius optimized





### Hemisphere

### S320 Survey Solution Features

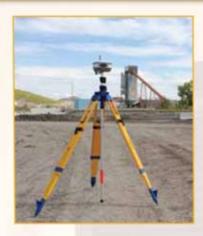
- SMS Communication
   Send and receive status messages via SMS
- GSM Auto Corrections
   Inter-unit SMS, no fixed
   IP address required
- GNSS Configurable
   Select your options:
   L1 GPS
   L1/L2 GPS
   L1/L2 GPS + GLONASS
   SBAS
   L-band DGPS
- Internal Radio SS/UHF & GSM Cellular

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

Cross-Compatibility

Ready-fit solution for your existing brands of survey equipment regardless of what make/model you currently use





Dual Bluetooth Ports

Connect a data collector while connecting an external device like a CDMA modem at the same time

- Dual hot-swap batteries
   Includes two lithium ion batteries, which provides more than 10 hours of
- 2 GB SD Memory Card
  Removable SD card
  for data logging with
  powerful scripting
  capabilities
- HQ Asset Tracking In conjuction w

battery life

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

### 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



## S320 GNSS Survey Receiver

#### STE TOTAL VAL

RTK Formats:

ReceiverType: Multi Frequency GNSS
Positioning Modes: RTK, L-band DGPS, SBAS.

External RTCM, Autonomous CMR, CMR+, RTCM3, ROX

OmniSTAR Formats: VBS, HP, XP, G2

Update Rate/

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

(20 Hz available)

Partitionnee

nce: Horizontal 5 mm + 0.5 ppm

GPS Performance: 0.3 i

Horizontal Accuracy:

RMS (67%) 2DRMS (95%)

2.5 m

10 mm + 1 ppm 20 mm + 2 ppm

OmniSTAR HP: 0.1 m 0.2 m SBAS (WAAS): 0.3 m 0.6 m

Companyment

Bluetooth: Dual port Radio GSM Options: Integrated

Autonomous, no SA: 1.2 m

SSM Options: Integrated 1 x GSM/GPRS

1 x SS 900 MHz or UHF Range: 400 MHz

CDMA capable

Flore Investmen

LED Display: 8 status LED's

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

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: -30°C to +70°C (-22°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

Powe

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



### **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.

### **Authorized Distributor:**

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