

# S320 GNSS Survey Receiver

## 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 or 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' SureTrack intelligence delivers superior RTK performance



### The Complete Package

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

- **S320 base/rover combo**
- **GM200 Data Collector**
- **Geo Surveyor Mobile Software**
- **(2) battery chargers**
- **Hard case with accessories**



# S320 GNSS Survey Receiver

## GPS Receiver

Receiver Type:	Multi Frequency GNSS
Positioning Modes:	RTK, L-band DGNSS/HP/XP, SBAS, External RTCM, Autonomous
Channels:	270
RTK Formats:	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)

## Performance

Static Performance:	Horizontal 5 mm + 5.0 ppm	
DGPS Performance:	0.3 m	
Horizontal Accuracy:		
	RMS (67%)	2DRMS (95%)
RTK:	10 mm + 1 ppm	20 mm + 2 ppm
OmniSTAR HP:	0.1 m	0.2 m
SBAS (WAAS):	0.3 m	0.6 m
Autonomous, no SA: <sup>2</sup>	1.2 m	2.5 m

## 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 LED's
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:	-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

## Power

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

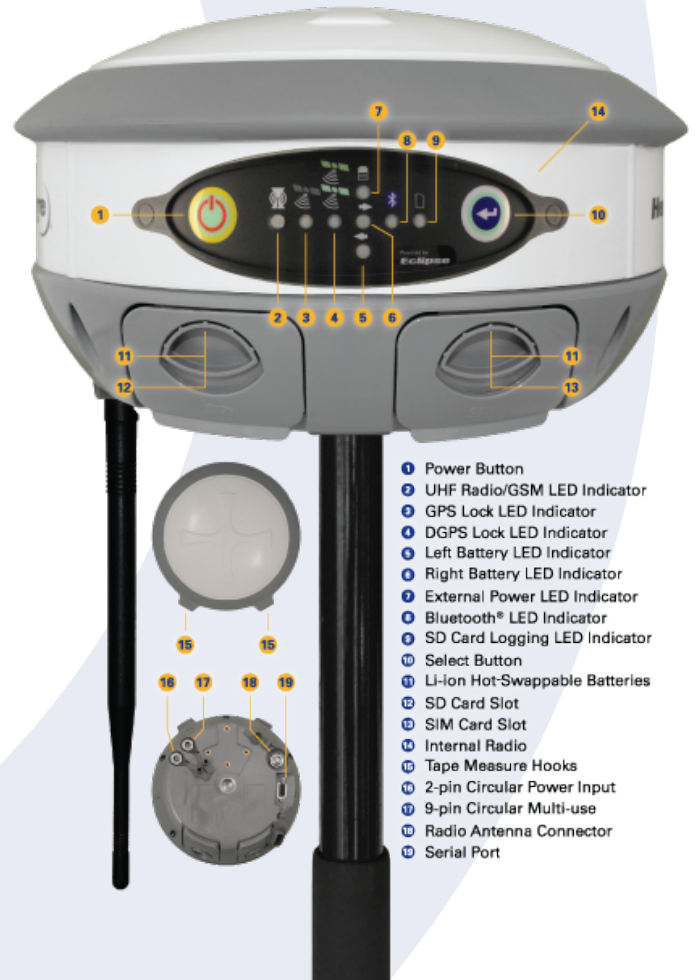
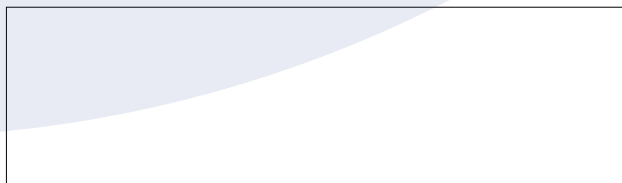
## Mechanical

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:



- 1 Power Button
- 2 UHF Radio/GSM LED Indicator
- 3 GPS Lock LED Indicator
- 4 DGPS Lock LED Indicator
- 5 Left Battery LED Indicator
- 6 Right Battery LED Indicator
- 7 External Power LED Indicator
- 8 Bluetooth® LED Indicator
- 9 SD Card Logging LED Indicator
- 10 Select Button
- 11 Li-Ion Hot-Swappable Batteries
- 12 SD Card Slot
- 13 SIM Card Slot
- 14 Internal Radio
- 15 Tape Measure Hooks
- 16 2-pin Circular Power Input
- 17 9-pin Circular Multi-use
- 18 Radio Antenna Connector
- 19 Serial Port



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