OS320™ GNSS Survey Receiver

Built Surveyor Tough

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: 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





S320 GNSS Survey Receiver

GPS Receiver

Receiver Type: Multi Frequency GNSS
Positioning Modes: RTK, L-band DGNSS, SBAS,
External RTCM, Autonomous

Channels: 27

RTK Formats: CMR, CMR+, RTCM3, ROX

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

(20 Hz available)

Performance

RMS (67%) 2DRMS (95%) 8 mm + 1 ppm 15 mm + 1 ppm 40 Vertical 5 tatic 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: 2
 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%

umidity: Up to 100%

Enclosure: IP67, EP455, waterproof, dustproof

Shock: 2 m (6.56') pole drop

Potton

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
- ** Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity

Authorized Distributor:



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Hemisphere GNSS, Inc. 8515 E. Anderson Drive Scottsdale, AZ, USA 85255

Toll-Free: +1-855-203-1770 Phone: +1-480-348-6380 Fax: +1-480-270-5070 precision@hgnss.com www.hgnss.com