

Hemisphere GPS



 **Vector** Series

GNSS Compasses



- SureTrack™ Intelligence
- COAST™ Technology
- Multi-GNSS
- Heading & Positioning Solutions



H101



Powered by
Crescent

- **Heading Accuracy:** < 0.10° rms
- **Positioning Accuracy:** < 0.6 m
- **Receiver Type:** L1 GPS (SBAS, L-band¹, DGPS²)

H102



Powered by
Crescent

- **Heading Accuracy:** < 0.75° rms
- **Positioning Accuracy:** < 1.0 m
- **Receiver Type:** L1 GPS (SBAS)

H320



Powered by
Eclipse

- **Heading Accuracy:** < 0.01° rms
- **Positioning Accuracy:** 10 mm + 1 ppm
- **Receiver Type:** GNSS
(SBAS, L-band, RTK)

Hemisphere GPS has been designing and manufacturing professional GNSS products for more than 20 years. As the world leader in GNSS compass technology, Hemisphere GPS continues to evolve its GNSS portfolio of products to provide the most precise heading and positioning solutions in the industry. Hemisphere GPS' patented Vector Series technology is integrated into a variety of OEM applications and continues to be the industry standard for system integrators.

Hemisphere GPS supplies its exclusive Vector technology to numerous Original Equipment Manufacturers. Make Hemisphere GPS Vector Compass technology your choice for heading and positioning solutions.

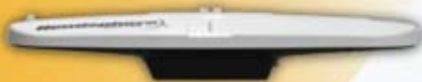
¹ When paired with Hemisphere GPS LX-2 OEM Board

² When paired with Hemisphere GPS SBX-4 Board

³ Available in V113

⁴ Available in VS111

V102



Powered by
Crescent

- **Heading Accuracy:** < 0.75° rms
- **Positioning Accuracy:** < 1.0 m
- **Receiver Type:** L1 GPS (SBAS)

V103



Powered by
Eclipse

- **Heading Accuracy:** < 0.30° rms
- **Positioning Accuracy:** < 0.6 m
- **Receiver Type:** L1 GPS (SBAS, Beacon³, DGPS)



Experience superior navigation with Hemisphere GPS' all-in-one GNSS compass solutions. Vector GNSS Compasses provide precise heading and positioning for IMO Wheelmark applications, hydrographic surveying vessels, fishing vessels, leisure boats, work boats, and other general marine navigation applications.

Hemisphere GPS Vector Compasses bring a series of robust features including heave, pitch and roll output as well as NMEA 0183 and NMEA 2000 support. The all-in-one Vector Compasses combine Hemisphere GPS Crescent technology and multipath-resistant antennas for simple installation on flat surfaces or pole mounting. The rugged and reliable design of Vector Compasses make them an ideal solution to replace traditional gyrocompasses, at a fraction of the cost.



VS101



- **Heading Accuracy:** $< 0.10^\circ$ rms
- **Positioning Accuracy:** < 0.6 m
- **Receiver Type:** L1 GPS (SBAS, Beacon⁴, DGPS)

VS131



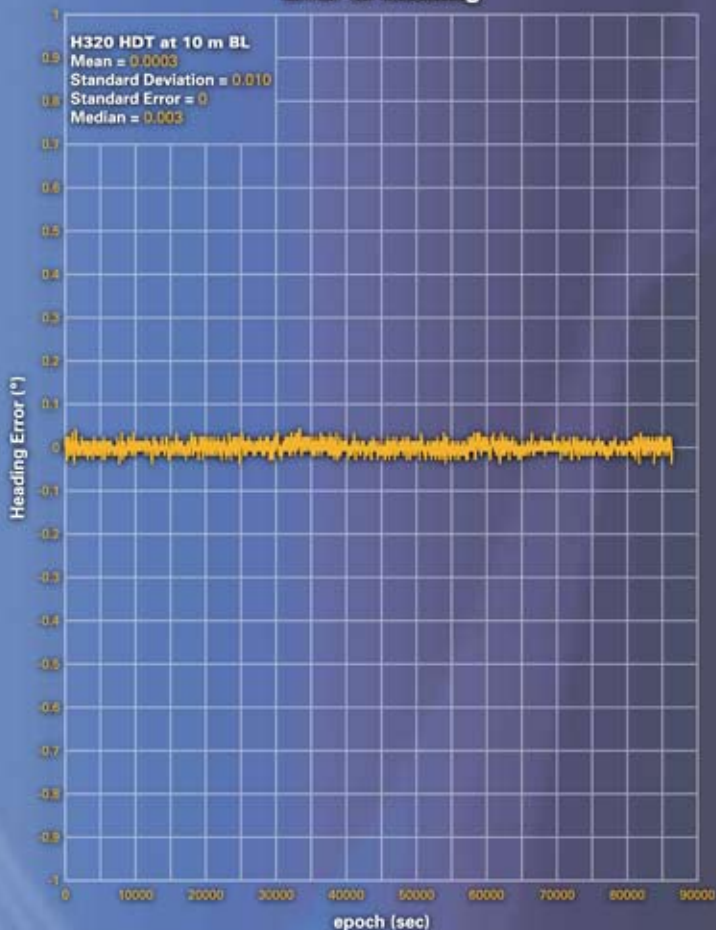
- **Heading Accuracy:** $< 0.03^\circ$ rms
- **Positioning Accuracy:** 10 mm + 1 ppm
- **Receiver Type:** L1 GPS (SBAS, L-band)

The industry's most precise applications demand the industry's most accurate heading and positioning solution from Hemisphere GPS.

Ideal for professional level machine control and navigation applications, Hemisphere GPS Vector VS101 and VS131™ deliver reliable GPS accuracy in the most demanding environments. With stand-alone antennas, users can simply change the antenna separation to meet their desired accuracy. The rack mountable display allows for the unit to be conveniently installed near the operator so that adjustments and configuration settings can be made in real-time.

Hemisphere GPS Vector Compasses offer exclusive design features and unprecedented accuracy that cannot be obtained through competitor products or traditional navigation methods.

Error in Heading



Eclipse Vector vs. Crescent Vector

HDT (°)	0.5 m BL	1.0 m BL	2.0 m BL	5.0 m BL	10.0 m BL
H320	0.15	0.07	0.05	0.02	0.01
H101	0.30	0.15	0.10	0.05	-



About Hemisphere GPS

Hemisphere GPS designs and manufactures innovative professional 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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