



Product Specifications

Baseline (m) / Heading (°)	VS330	VS131	V103	V113	V102
0.25 m	-	-	-	-	0.75°
0.5 m	0.17°	0.17°	0.3°	0.3°	-
1.0 m	0.09°	0.09°	-	-	-
5.0 m	0.02°	0.02°	-	-	-
10.0 m	0.01°	-	-	-	-
Position (m)	VS330	VS131	V103	V113	V102
SP	1.2	1.2	1.2	1.2	1.2
SBAS	0.3	0.3	0.3	0.3	0.3
Beacon	0.3	0.3	-	0.3	-
RTK	0.01	0.01	0.01	0.01	-

Baseline (m) / Heading (°)	H320	H200	H102
0.25 m	-	-	0.75°
0.5 m	0.17°	0.17°	0.3°
1.0 m	0.09°	0.09°	-
5.0 m	0.02°	0.02°	-
10.0 m	0.01°	-	-
Position (m)	H320	H200	H102
SP	1.2	1.2	1.2
SBAS	0.3	0.3	0.3
Beacon	-	-	-
RTK	0.01	0.01	-



Hemisphere GNSS designs and manufactures innovative, cost-effective GNSS and complimentary products for positioning, heading, and navigation applications. For more than 23 years, we have established numerous patents and other intellectual property. We are a global company with sales in more than 55 countries with several leading product brands, including Crescent®, Eclipse™, and Vector™, for precise GNSS applications. Our innovative GNSS receiver and antenna technologies are sold on the board level to OEM integrators and as positioning and navigation components for use in marine, land survey, machine control, and mapping applications.

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Enhance **Your Position**



Vector Series GNSS Compass Solutions

Enhance **Your Position**

Hemisphere

Vector V102 GPS Compass



- Robust all-in-one heading, positioning, pitch, roll, and heave compass
- Maintain heading without GPS

Vector V103 GNSS Compass



- Enhanced heading and positioning with GPS and GLONASS
- No lengthy calibration necessary

Vector V113 GNSS Compass



- Robust all-in-one heading, DGNSS positioning, pitch, roll, and heave compass

Experience superior navigation with Hemisphere GNSS' 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 GNSS' 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 GNSS' Crescent® technology and multipath-resistant antennas for simple installation on flat surfaces or pole mounting.

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Hemisphere

Vector VS131 GNSS Compass

- Enhanced heading and positioning with Crescent GPS and GLONASS technology
- MFA DGNSS patented technology



Vector VS330 GNSS Compass

- Eclipse quad frequency vector sensor
- Achieve variable heading accuracies up to 100 m baseline



R330 GNSS Receiver

- High-accuracy positioning in RTK, GNSS, SBAS, and L-band
- Long-range RTK baselines up to 50 km



The rugged and reliable design of Vector compasses make them an ideal solution to replace traditional gyrocompasses, at a fraction of the cost.

Ideal for professional level machine control and navigation applications, Hemisphere GNSS' Vector VS131™ and VS330™ deliver reliable GNSS 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 GNSS' Vector compasses offer exclusive design features and unprecedented accuracy that cannot be obtained through competitor products or traditional navigation methods.

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Hemisphere

Vector H102 GPS Compass OEM Board



- Affordable solutions delivers 2D GPS heading accuracy better than .75 degree rms

Crescent Vector H200 Module

- L1 GPS/GLONASS RTK capable
- 10 cm heave accuracy with RTK
- Excellent coasting performance



Vector H320 GNSS Compass Module

- L1/L2 GPS/GLONASS RTK capable
- 5 cm rms RTK-enabled heave accuracy
- Excellent coasting performance



Enjoy the simplified integration, flexible communication, and powerful, precise performance of the all-in-one Vector H102™ GPS compass OEM board. The integrated Crescent Vector II technology offers precise heading and positioning as well as heave, pitch, and roll output.

The Crescent Vector H200™ GNSS module is the next generation, single frequency, high-performance GNSS heading, positioning, and attitude module available on the market from Hemisphere GNSS. Diversity and cost savings makes it an ideal part of your solution for system integrators.

Develop sophisticated machine control and navigation solutions in a world full of complex dynamic environments. The Vector H320™ is our most advanced GNSS heading and positioning module on the market today.

Enhance Your Position

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