

# GPS Compass for Precise Marine Applications



Hemisphere GPS introduces the Vector VS330 and Vector VS131 GPS compass products that provide high performance heading, position, heave, and attitude data. The products are designed for professional marine applications such as hydrographic and bathymetric surveys, dredging, oil platform positioning and buoys that demand 3D positioning accuracies.

Based on Hemisphere GPS' Eclipse GNSS technology, Vector VS330 utilises the most accurate differential corrections including RTK, L-band, SBAS, and beacon. The smart intelligence from our MFA firmware always provides differential solutions by automatically switching to the next best differential source if the original source is no longer available.

Vector VS330 is Hemisphere GPS' flagship receiver and computes heading information with better than 0.01 degrees accuracy when using a ten meter antenna separation. Positioning accuracy is better than one centimetre in RTK mode or four centimetres when using OmniSTAR HP corrections. Vector VS330 also provides five centimetre RTK heave and 0.01 degree pitch and roll accuracies.

Combining Hemisphere GPS' Crescent Vector and LX-2 receivers with two separate antennas, the Vector VS131 computes heading information with better than 0.03 degrees accuracy when using a five metre antenna separation and better than 50 centimetre position accuracy when using L-band, SBAS, or beacon corrections. Vector VS131 accepts most differential correction signals for unparalleled flexibility to obtain sub-metre positioning in all regions.

The ruggedness of the new Vector enclosure also makes it suitable for more harsh environment installations. The Vector's versatility for providing heading, position, heave, and motion makes it directly compatible with the most popular hydrographic and side scan survey packages. Vector VS330 and VS131 include an intuitive and easy-to-follow user interface to facilitate fast installations.

Vector VS330 and Vector VS131 will be featured by Hemisphere GPS in [hall 9, stand B.62](#) at the Intergeo Conference and Trade Fair in Hanover, Germany from 9 to 11 October 2012. Both products will be available for shipping in November 2012.

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