

SBG Systems Releases Horizon IMU for Navsight Marine Solution



[SBG Systems](#) has released the [Horizon IMU](#), a FOG-based high-performance inertial measurement unit (IMU) designed for large hydrographic vessels surveying harsh environments.

Navsight Marine Solution consists in a powerful and ready-to-use IMU dedicated to hydrographers. It is available at different levels of accuracy to meet the various application requirements and can be connected to various external equipment such as Echo-sounders, Lidar, etc.

Completing the product range

Navsight Marine Solution already offers two levels of performance with the Ekinox and Apogee IMUs. These MEMS-based IMUs address most hydrographic markets whether shallow or deep water. The Horizon IMU allows customers to bring Navsight technology to the most demanding environments such as surveying highly dense areas (bridges, buildings, etc) as well as applications where only a single antenna can be used. Horizon IMU's based on closed-loop FOG technology which enables ultra-low bias and noise levels. This technology allows robust and consistent performance even in low dynamics survey.

Simplicity

The navsight solution is easy to install as the sensor alignment and lever arms are automatically estimated and validated. Once connected to the Navsight processing unit, the web interface guides the user to configure the solution. A 3D view of the vessel shows the entered parameters so that the user can check the installation. The Navsight unit also integrates led indicators for satellite availability, RTK corrections, and power. It comes with a rugged enclosure, or in a rack version for larger vessels.

Post-processing Software

Completing the Navsight offer, Qinertia, the SBG post-processing software, gives access to offline RTK corrections from more than 7,000 base stations located in 164 countries. Trajectory and orientation are then greatly improved by processing inertial data and raw GNSS observables in forward and backward directions. Computation takes less than 3 minutes for a 6-hour log thanks to the Forward and Backward calculation processed at the same time.

Availability

Navsight is ITAR Free. All models are available for order. Ordering information and delivery time are available from SBG Systems representatives and authorized SBG Systems dealers.