

# SBG Systems Unveils Ekinox Subsea Series



At SUBSEA EXPO (Aberdeen, UK), SBG Systems, France, has unveiled the Ekinox Subsea Series, a product family of survey-grade inertial systems designed for underwater applications up to 6,000m. Based on the robust and cost-effective MEMS technology, the series includes the Ekinox-M, a Motion Reference Unit (MRU) and the Ekinox-U, an underwater Inertial Navigation System (INS).

The [Ekinox Subsea Series](#) integrates the latest MEMS sensors to offer robust, small-sized, cost-effective, high performance MRU & INS. Ekinox outputs survey-grade roll, pitch, and heading (0.05°) at a high update rate, making it compliant with IHO standards. To obtain the most accurate and reliable navigation data, the internal Extended Kalman Filter fuses in real-time inertial and aiding information (DVL, RTK GPS, etc.). All collected

data are recorded in the 8GB data logger.

Ekinox offers accurate real-time heave which can be delivered on up to four different locations. The delayed heave feature allows surveying in every sea state. With this computation, heave accuracy is increased to 2.5cm, while period swells can reach 50 seconds. The heave period is automatically computed and constantly adjusted.

Without mounting orientation limitation, numerous serial and Ethernet ports, and an internal Web interface, Ekinox Subsea Series is easy to install, connect, and configure. Available in long-life enclosure such as stainless steel or titanium, they are operational up to 6,000m. Every product is calibrated from -20 to 60°C to ensure the highest data integrity in all conditions, and is shipped with its own calibration report.

Ekinox-M makes hydrographic and offshore operations possible in all sea conditions by joining accurate motion measurement with delayed heave. Meanwhile, the Ekinox-U provides high accuracy navigation data in a compact and sealed package, making it the ideal solution for ROV orientation, AUV navigation and data georeferencing.

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