

New-generation Ekinox Series of Inertial Sensors



SBG Systems is launching the Ekinox 2 Series of compact inertial navigation systems. With new accelerometers and gyroscopes, Ekinox 2 attitude accuracy has been enhanced by a factor of two while improving resistance to vibrations and integrating the Beidou constellation, according to SBG Systems' data.

Ekinox Series is a line of tactical grade MEMS-based inertial navigation systems. SBG Systems achieved an accuracy that is twice the performance of the Ekinox 1 Series. This improvement is due to a complete redesign of the in-house Inertial Measurement Unit (IMU) integrating new gyroscopes and accelerometers.

Suited for Mobile Mapping

With the same form factor and price level, Ekinox 2 Series improve the precision of mobile mapping systems whether they are aerial, terrestrial, or even pedestrian. This generation provides 0.02° roll and pitch, 0.05° heading, and a centimetre-level position. It is ideal for Lidar motion compensation and point cloud / images synchronisation and direct georeferencing. With its accelerometers, this new generation has also improved its resistance to vibration. Finally, the addition of the Beidou constellation improves signal availability in Asia.

Easy Installation & Configuration

Compact and light-weight, the Ekinox Series has been designed to simplify installation and operations. Configuration is made easy throughout the intuitive embedded web interface where all parameters can be quickly displayed and adjusted. For example, you can choose your profile (Plane, Car, etc.) and the 3D view will provide a visualisation of settings such as the sensor position, alignment, lever arms, etc.

Ekinox 2 Series Availability

[Ekinox 2 Series](#) is ITAR Free. The product line will be available during the second quarter of 2017. Order information are available from SBG Systems representatives and authorized SBG Systems dealers.