

Dual Antenna GNSS Inertial System



SBG Systems recently has added a new inertial system to its Ekinox series. With integrated Dual Antenna GPS + GLONASS receiver, the Ekinox-D is a ready-to-use Survey Grade inertial navigation system which provides consistent true heading (0.05°).

The Survey Grade Ekinox-D is a high performance inertial navigation system which embeds a Dual Antenna L1/L2 GNSS receiver to deliver more robust heading and position, while increasing satellite reception availability. Ekinox-D is an integrated system. GNSS data and inertial information are fused by an Extended Kalman Filter (EKF) to improve data integrity. This computation allows the system to achieve 0.05° Roll, Pitch, and True Heading; 5cm Heave; and 2cm RTK GNSS position.

Instead of mounting separately GNSS receiver and inertial systems on your boat, car, or plane, users can just install the Ekinox-D and connect it to their system (e.g. Camera, Sonar, Lidar, etc.). With its 8GB data logger and its high output rate (200Hz), Ekinox-D joins simplicity and performance for applications where robust heading is required such as surveying and hydrographic applications, unmanned system navigation, car testing, etc.

With its IP68 Ekinox series, SBG Systems aims to bring robust, maintenance free, and cost-effective MEMS to the next level thanks to a drastic selection of high end MEMS sensors, an advanced calibration procedure, and powerful algorithm design.

<https://www.gim-international.com/content/news/dual-antenna-gnss-inertial-system>
