

## **Quanta UAV, New INS/GNSS to Increase the Productivity of UAV-based Surveying Solutions**

Carrières-sur-Seine, France, April 15th 2019 - SBG Systems will present for the first time at AUVSI's Xponential show in Chicago (U.S.), the Quanta UAV Series, a brand new line of Inertial Navigation Systems (INS) dedicated to UAV-based Surveying Integrators.

### **More Productivity for UAV-based Mapping Systems**

Because SBG Systems wants UAV surveyors to save autonomy for additional survey lines, the company has designed a small, lightweight, and low-power inertial navigation system offered on two levels of accuracy. Quanta UAV and Quanta UAV Extra have been developed for compact LiDAR to high end BVLOS mapping solutions. They provide precise orientation and centimeter level position data delivered both in real-time and post-processing. This direct geo-referencing solution eliminates the need of ground control points and greatly reduces the need of overlapping.

### **The Easiest INS/GNSS Post-Processing Software – 1 year Free**

Qinertia, SBG's post-processing software completes the Quanta UAV offer. It gives access to offline RTK corrections from more than 7,000 base stations located in 164 countries. Trajectory and orientation are greatly improved by processing inertial data and raw GNSS observables in forward and backward directions. This advanced software also computes your base station position to quickly get your project to the centimeter accuracy. Qinertia is one year free when buying a Quanta UAV sensor; test it!

### **The Best of SBG Systems' Expertise: Robotics & Surveying**

Quanta UAV is the result of SBG's expertise in both miniaturized technology for drone navigation and high end sensors for mobile mapping. Designed as a geo-referencing solution, it can also be used as a high-end navigation solution to feed the UAV autopilot. Quanta UAV benefits from a tight integration with in-house IMUs, advanced calibration techniques and algorithms which ensure a consistent behavior in all weather conditions, as well as a robust position even if the UAV gets close to buildings, electrical lines, or trees.

### **Easy Configuration, Free Support, Unlimited Firmware Updates**

It is in SBG Systems' DNA to make your life easier and give you full satisfaction. Quanta UAV embeds a web interface for an easy configuration with a 3D view showing all parameters. The calibration tool automatically aligns the lever arm between the two antennas and the sensor, and re-estimates it in flight for more precision. Asking for More simplicity? The SBG Support Team is there to help the user for no extra cost, and Quanta UAV benefits from a two-year warranty and unlimited firmware updates.

### **Quanta UAV Availability**

The ITAR Free Quanta UAV inertial navigation systems are available for order. Ordering information is available from SBG Systems representatives and authorized SBG Systems dealers.

For more information about the Quanta UAV Series, please visit: <https://www.sbg-systems.com/products/quanta-uav-series>

### *SBG Systems - Redefine Motion Limits...*

SBG Systems is a leading supplier of MEMS-based inertial motion sensing solutions. The company provides a wide range of inertial solutions from miniature to high accuracy. Combined with cutting-edge calibration techniques and advanced embedded algorithms, SBG Systems products are ideal solutions

for industrial & research projects such as unmanned vehicle control, antenna tracking, camera stabilization, and surveying applications.

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