

Eos Launches New Line of High-Accuracy GNSS Receivers



Eos Positioning Systems has announced the introduction of a new, innovative product line of high-accuracy GNSS receivers for smartphones and tablet computers, including both sub-meter and RTK performance for all mobile platforms: iOS, Android, and Windows. With the entry level product, the Arrow Lite, Eos aims to set a new performance standard for high-accuracy GPS receivers compatible with all mobile devices.

The second in the product line, the Arrow 100, is Eos's advanced real-time, sub-meter GNSS receiver that utilises both GPS and GLONASS, and expandable to Galileo, Beidou and QZSS. According to the Canadian company it sets a new performance standard for sub-meter GNSS receivers by offering excellent tracking under tree canopy, around buildings and in rugged terrain. In addition to supporting SBAS in North/Central America, Europe, Northern Africa, Japan, India and Russia, the Arrow 100 also supports OmniSTAR's world-wide, real-time sub-meter service.

The most advanced Arrow receiver is the Arrow 200, a dual frequency, multi-constellation RTK GNSS receiver capable of 1cm accuracy in real-time. The Arrow 200 is a iOS-compatible RTK and OmniSTAR receiver that works with all models of iPads and iPhones via wireless Bluetooth connection. An iOS NTRIP app that allows the user to log into any RTK network is also available. The Arrow 200 will provide RTK performance for years to come because it supports current and future satellite constellations: GPS, GLONASS, Galileo, BeiDou and QZSS. It also supports OmniSTAR's G2, XP and HP real-time world-wide decimetre services.

All platforms

After spending more than 12 years designing high-accuracy Bluetooth GNSS receivers, chief technology officer Jean-Yves Lauture said he believes Eos has set the new standard for high-accuracy GNSS receivers that work across all mobile platforms. All Arrow receivers employ long-range (1km) universal Bluetooth connectivity so the user can interface to any brand of smartphone or tablet, whether it is iOS, Android, or Windows-based. A variable-power Bluetooth implementation allows the Arrow receivers to communicate up to one kilometre from the mobile device.

Arrow receivers have been optimised to run all day on battery power. The battery pack is field-replaceable and rechargeable separately. It contains smart charging logic so expensive battery chargers are not needed. All Arrow receivers have been designed to meet IP-67 specifications for immersion in water and are completely dust-proof so they will survive in the harshest environments.

The Arrow receiver product line is targeted at high-accuracy applications like GIS, environmental, agriculture, electric/gas/water utilities, surveying, machine control, and federal/state/local government.