Safran introduces Geonyx™, a new inertial navigation system for armies

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At the Eurosatory 2018 defense show, Safran Electronics & Defense is introducing its new family of inertial navigation and pointing systems for land vehicles, Geonyx™. Based on the HRG Crystal™ hemispherical resonating gyro (HRG), Geonyx™ signals a major step forward in terms of compact design, operational efficiency, integration and cost of ownership.

Geonyx™ weighs just 6 kilograms, occupies a volume of less than 5 liters, offers power consumption of 15 watts and reduced operating costs, making it the best solution now available. These record-breaking qualities are due to the HRG Crystal™ gyro. Building on the simplicity and proven maturity of this inertial technology, Safran Electronics & Defense has developed a line of ultra-reliable inertial navigation systems, offering a wide range of performance specifications. These units are designed for both civil and military applications in all environments: air, land, sea and space. The new Geonyx™ family is more specifically suited to land platforms such as combat vehicles, target acquisition systems and artillery.

To meet the varying needs of armies, the Geonyx™ family is available in three different versions, with increasing levels of performance: Geonyx™ SP, Geonyx™ HP and Geonyx™ XP. These navigation, position-determination and pointing systems, featuring accuracy of better than 1 mil (milliradian) on artillery, ensure high performance even when global navigation satellite system (GNSS) signals are absent or being jammed. Geonyx™ is also highly robust and easy to integrate in different platforms, while ensuring precise alignment and resistance to the repeated shocks of artillery fire.

Along with the new Geonyx™ product line, Safran Electronics & Defense is providing long-term support packages.

Safran Electronics & Defense is a long-standing leader in inertial navigation, having built up its expertise in all underlying technologies over the last 70+ years. Having delivered more than 150,000 resonator gyros, Safran Electronics & Defense is the leader in Europe and No. 3 worldwide.