PRESS RELEASE

Safran at Euronaval 2016: spotlight on a product line that drives the success of major naval and air-naval combat programs

Euronaval 2016, Paris Le Bourget exhibition centre, Wednesday, October 19, 2016

During the Euronaval 2016 trade show and exhibition, Safran Electronics & Defense is showcasing shipborne optronic (electro-optical) and inertial navigation systems that underpin high value-added services for naval forces undertaking all types of engagement scenarios. The high performance offered by Safran's solutions is based on state-of-the-art optronic and inertial navigation technologies, and their integration into naval platforms and combat systems.

Safran's product offering on display at Euronaval 2016 is geared to even the most demanding missions, whether at sea or along coasts. Its exhibition space is divided in three main areas: surface operations, undersea warfare, and the airborne naval missions, in the form of air-naval units.

Safran, the global benchmark in submarine masts and navigation systems

The performance of these products draws on Safran's unrivaled expertise in optronics and precision mechanics, coupled with advanced stabilization and image processing techniques.

A benchmark in the naval sector, Safran designs, develops and produces attack periscopes, optronic masts and radar masts. The new Series 30 family of masts, for instance, features a non-hull penetrating design, with a large number of sensors in a small space. The optronic attack mast version includes several high-resolution cameras, a panoramic surveillance function, electronic warfare antennas, communications equipment and a GPS receiver.

Safran's recognized expertise in advanced navigation systems is reflected in the high-performance Sigma 40XP system. Designed to offer high-precision over long periods (exceeding 96 hours), these systems meet the most demanding criteria for submarine navigation. Calling on a laser gyro core, they also feature laser technologies that guarantee sustained high precision, along with operational flexibility. Safran's Sigma 40XP systems have been chosen for France's Barracuda class nuclear submarines, as well as for the Améthyste nuclear attack submarine modernization program and export Scorpène subs produced by French naval shipyard DCNS. To date, this system has been fitted to 75 submarines of 14 different types.

The key to the most demanding surface combat missions

Safran is displaying a complete range of optronic systems for surface vessels, including the new Paseo NS (Naval System) and XLR turrets (eXtra Long Range), the EOMS NG panoramic surveillance and fire control system for front-line ships, and the Vigy Observer for patrol ships and other light vessels. Whether integrated in the ship's own combat system or remotely operated from a special console, these systems address intelligence, early warning and engagement requirements for all types of ships.

Paseo is a modular family of optronic sighting and surveillance systems. On display at Euronaval 2016 are the versions NS and XLR Paseo, features high-resolution sensors for target detection and identification at very long range, day or night, to provide timely threat warnings. It offers high-precision identification, tracking and fire control functions, operating at long range against air and naval targets, even under adverse weather conditions. Its antiship missile detection function is used in conjunction with Safran's NGDS (New Generation Dagaie System) decoy launcher. The Vigy Observer system is offered as the optronic sensor in the new BlueDome system to protect commercial vessels against piracy.

Sigma inertial navigation systems are already fitted to more than 500 warships. The Sigma 40 laser gyro navigation system is the European benchmark for front-line combat platforms. Sigma 40 systems have now logged more than 12 million hours in operational service, and accumulated fleet data clearly proves the exceptional reliability of the Sigma 40.

Safran has expanded its product line with the addition of BlueNaute®. Robust, compact and maintenance-free, the BlueNaute navigation system is based on a disruptive inertial sensor technology, the hemispherical resonator gyro (HRG), patented by Safran. BlueNaute addresses the requirements of both commercial and naval ships. HRG technology is characterized by an unlimited lifespan and very high reliability, while fully meeting the requirements of the International Maritime Organization and the SOLAS (Safety of Life at Sea) treaty. More than 200 civilian ships and 50 operated by government agencies are already equipped with the BlueNaute system, especially the U.S. Coast Guard's Reliance class ships and Canada's Harry DeWolf class arctic offshore patrol boats.

Into the third dimension: from Euroflir to the Patroller drone

Safran offers the Euroflir® family of gyrostabilized optronic pods for the most demanding air-naval operations. Euroflir systems can be fitted with several types of sensors, including infrared imagers, video cameras with progressive zoom, multispectral spotters, and laser pointers, designators and illuminators. Deployed in an airborne surveillance patrol, on special-mission helicopters or maritime patrol and surveillance aircraft, Euroflir offers new reconnaissance and operational capabilities.
Safran is also displaying its new Patroller tactical drone system to address coastal protection requirements. The aircraft carries a payload up to 250 kg and offers endurance in the 20-hour class. The Patroller's modular design can support a wide variety of payloads for maritime missions (surveillance radar, AIS receiver, electronic warfare and SAR distress beacon detector). The drone's Euroflir sensor is at the heart of its optronic system. A dedicated ground station operates all airborne sensors in real time and can control two drones simultaneously. Taking advantage of these multiple interfaces, the Patroller system can be integrated into the digital battlefield for today's armed forces, or deployed by homeland security forces.

Safran's naval solutions use ITAR-free technologies and feature modular designs. The underlying technologies mean that Safran can offer its partners the solution best suited to their specific needs for new platforms or modernization programs. Safran contributes to some of today's most modern ships, including Barracuda class submarines in France, Europe's Fremm frigates, A26 submarines in Sweden and KSS-III submarines in South Korea, and Canberra class helicopter carriers and air defense destroyers in Australia.

Safran is at stand E26 F35 at the Euronaval show from October 17-21, 2016.