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SELEX Galileo to showcase its successful capabilities in the naval sector at Euronaval

SELEX Galileo of Finmeccanica will showcase a range of its most successful capabilities at Euronaval 2008, the 21st international naval defence and maritime exhibition and conference (Paris, from 27 to 31 of October).

SELEX Galileo is expanding its Naval radar product range using Solid State and LPI (Low Probability of Intercept) technologies.

The Naval PAR (Precision Approach Radar) SPN-720 has successfully completed Sea Acceptance Test (SAT) on the Italian and UK carriers and SPN 730 Navigation Radar has secured 25 orders in Italy and abroad. Moreover SELEX Galileo has been selected to upgrade the SPS-702 for Maestrale and Ammiragli class applying fully coherent radar features inherent in SELEX Galileo LPI architecture. Resulting SPS-702LE configuration is an LPI 2D Air and surface surveillance radar.

SPN 730 can be configured as a LPI Kit to be integrated, and operated alternatively, with conventional navigation radars. The advantages of SELEX Galileo LPI coded pulse technology include: capability to operate without degradation of on board ESM performance, combined with low power emission, low intercept ability using electronic countermeasures providing an exceptional solution to navigate in silent mode aboard stealth ships and for covert operations in enemy waters.

At its Florence site, SELEX Galileo is developing the application of the LPI technology to a number of navigation and surveillance radars: BPS-730: LPI Navigation Radar for submarines; TPS-730: Coastal Surveillance Radar, light and compact; SPS-730 2D Surveillance Radar, obtained by fully coherent radar features inherent in SELEX Galileo LPI architecture as proven with SPS-702LE; E-SMR Radar for air traffic control management, as an enhanced solid state solution for SMR.

The SASS is the Infrared Search and Track (IRST) developed by SELEX Galileo for the Italian aircraft carrier "CAVOUR" will be showcased at the Euronaval. The system has been tested by the Italian Navy and selected for the Italian Future European Multi Role Frigates (FREMM).

At Euronaval SELEX Galileo will also exhibit the newly developed PicoSTAR (Surveillance, Targeting And Reconnaissance) Radar and Advanced targeting concept model. PicoSTAR is an integrated multi-sensor payload for unmanned aerial vehicle (UAV), helicopter and fixed wing platforms based on the PicoSAR Synthetic Aperture Radar and used an X-band (8-12.5 GHz) Active Electronically Scanned Array (AESA) ground moving-target indicator/SAR as a base.

The Siren Off board Active Decoy (AOD) system will also be displayed showing its capability in combating the threat of radar guided anti-ship missiles. The Siren system is launched to defeat active RF missiles in their final stages of attack and transmits a powerful directional jamming signal towards the threat to interrupt its guidance system directing it away from its intended target.

Notes to the Editor:

SPN-720 Naval Precision Approach Radar, installed on board two British Royal Navy light aircraft carriers class Invincibile, has successfully completed the SAT trials with the compliments for the excellent performances by the Royal Navy Officers. The same system is already been operated with a Far East country and has completed SAT trials on board the carrier Cavour of the Marina Militare Italiana, the Italian Navy.

SPN-730 LPI Naval Navigation Radar brilliantly performed SAT (Sea Acceptance Test) trials for 22 systems supplied to a NATO Country. The results obtained by the End User with ESM- Electronic warfare Support Measures- for the identification and interception, in real operative conditions, and with different boats and equipments interacting at Sea, are particularly significant.

SASS is a long range, passive IRST operating simultaneously in MWIR (3-5 μm) and LWIR (8-12 μm) spectral bands. It detects and tracks air and surface targets with full 360° horizontal coverage and to provides infrared (IR) maps of the scene around the ship.

The Seaspray 7500E, currently in service with the US Coast Guard, is a multi-mode radar which combines a state-of-the-art Active Electronically Scanned Array (AESA) with a Commercial Off The Shelf (COTS) processor.

The PicoSAR radar provides an all-weather, day and night high resolution synthetic aperture radar (SAR) imaging capability coupled with the detection of ground moving vehicles. PicoSAR is a lightweight, low volume sensor designed for easy installation onto a wide range of platforms.

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