

## **Galileo Avionica approaching the Slovakian market**

### **Introduction to Galileo Avionica:**

**Galileo Avionica with Selex SAS UK has combined into SELEX Sensors and Airborne Systems (SELEX S&AS) S.p.A., a Finmeccanica company, creating Europe's second largest defence electronics business.**

Galileo Avionica S.p.A is the Italian avionics leader. It focuses on the design, development and production of avionics and electro-optical equipment, airborne radar and precision approach radars, UAVs and Simulators, space equipment for platform and payloads. Galileo Avionica offers systems integration capabilities and know-how and participates as prime or partner in major European military co-operative programs (Eurofighter, NH90, EH101).

In addition to the design and integration of open architecture, highly integrated and modular avionic equipment for mission and navigation, Galileo Avionica has developed the ATOS airborne mission management system for Maritime Patrol and Surveillance.

As the centre of excellence for infrared technologies, Galileo Avionica offers complete thermal imaging solutions and the EOST systems, a variety of electro-optic surveillance sensors. Other products include airborne sonics as prime contractor on the Italian NH-90.

Galileo Avionica fully masters all aspects of airborne radar with over 450 fire control radars of the Grifo family sold world-wide and Precision Approach Radars successfully sold to several international countries.

Additionally Galileo Avionica is a leader in high subsonic tactical and training drones and an important manufacturer of surveillance and reconnaissance UAVs including the Unmanned Aerial Vehicle FALCO Surveillance System and Reconnaissance UAV. The Mirach 100/5 target drone of Galileo Avionica is operated in Italy, France, Spain, United Kingdom and by other international end users.

### **Focus on the Slovakian market (see the Press Release)**

#### **Sighting Systems for Combat Vehicles and Forward Observers**

##### **MINIJANUS- Compact Observation System for Tactical vehicles**

MINIJANUS is a stabilised Panoramic Sensor Unit designed for not invasive installation on light turrets, allowing the observation, aiming, designation and tracking of ground targets as well as aircraft.

MINIJANUS integrates existing major critical components developed by Galileo Avionica for national and international programs as well as state of the arts components based on Commercial Off The Shelf (COTS) rugged items.

MINIJANUS is built around a two axes panoramic gimbal which houses a Thermal Camera, a colour TV CCD camera and the electronics needed for driving the line of sight.

MINIJANUS system is a fully remote sensor: the whole control system is performed in response to codified commands sent through a digital interface via RS 422 or via Can Bus, using a pre-defined communication language (established in cooperation with the customer).

##### **JANUS- Stabilised Modular Electro optical Equipment**

JANUS is an High Performance Stabilized Modular Electro Optical Equipment, designed for not invasive installation on light turrets, for observation, aiming, designation and tracking of ground targets as well as aircraft.

JANUS is built around a two axes panoramic stabilized gimbal which houses a 3rd Gen IR Camera, a colour TV CCD camera, a Laser Range Finder, and the electronics needed for driving the Line Of Sight (LOS).

The equipment is based on the concept of the "indirect view": all classical optical paths have been substituted by means of high resolution imaging sensors as IR and CCD cameras. The equipment is intended for a wide range of applications requiring fully passive control of specific areas: all weather Detection, Recognition, Identification,

Manual and Automatic Tracking, and manual Designation of surface and air targets; all weather surveillance of sensitive areas, control of on board human activities at long range, rescue, anti-pollution operations.

#### **LOTHAR- Day/Night Gunner Sight**

LOTHAR is a modular and compact aiming and firing sight, designed to be integrated into turrets of various calibres. This sight offers full target aiming capability, H24, observation and emergency firing.

LOTHAR hardware and software modular architecture allows tailoring of the system according to customer's requirements from lighter AIFV to heavier MBT.

A specific mechanical interface can be fitted to each turret, without modifying either the sight or the turret itself.

The LOTHAR sight has been designed to fit into several different turrets and to be integrated in FCS, controlling a wide range of weapons (from 25-30 mm ÷ 120-125 mm).

Its mirror, defining the position of the line of sight, may be mechanically linked to the line of fire (for the lighter and lower cost turrets) or stabilised (for the higher performance turrets). In the latter case, the stabilisation is based on a high performance gyroscope gimbal, and allows the gunner to operate with the same high performance when the vehicle is standstill or moving. The sight provides the gunner (and automatically, the FCS) with all the information necessary for an effective fire control: target position/speed and distance.

#### **The Equipments for the Italian program "Soldato del Futuro"**

The Italian Army Soldier System, fully interoperable and integrated into the latest C4i Systems, is the most advanced and complete European program for Infantry modernization, complying with the requirement of the Italian Army General Staff and with NATO guidelines.

Galileo Avionica has been the first Company in developing a wireless link between the rifle sight and the Helmet Display for "Shooting around the corner" capability or in monitoring the physiological stress level of the soldier in operation. The Galileo Avionica multi-Sensor based, Individual Fire Control and Observation system offers today a real "all weather" H24 operation capability for target location and sighting.

Thanks to the experience acquired during the development of the Individual Combat Fire Control and Observation System, Galileo Avionica is fully capable to supply custom solutions regarding both performance and mechanical/electrical interfaces. Galileo Avionica Future Soldier and Special Forces equipment covers:

**ASPIS (Individual Combat Weapon System).** ASPIS is the next generation of multifunctional integrated Rifle-Sight. Compact and one of the lightest available, ASPIS features all weather uncooled infrared night channel for full darkness observation and detection through dusk or overcast days; and a day TV channel for high definition observation and detection during daylight conditions.

**LINX (Hand Held Target Acquisition System).** Multifunctional Day/Night Hand Held Target Locator which includes an uncooled thermal imager for all weather night observation and detection through dusk or overcast days, two FOV colour TV channel for high definition observation and detection during daylight conditions, eye safe laser range finder, digital compass and GPS in a compact lightweight unit for dismounted soldiers and special forces.

**SCORPIO (Grenade Launcher Fire Control System).** Lightweight compact Fire Control System for Grenade Launcher Tubes that provides fast and accurate aiming and firing (LOS/LOF) capabilities. A ballistic computer reconfigurable by means of uploaded firing tables for selected ammunition (HE frag, HEDP, Smoke, etc.) provides better hit probability against standing and moving ground targets.

**NIMOS (Night MObility System).** It is a modular lightweight Helmet Mounted Display integrated with Low Light Level digital TV for soldier night mobility. Moreover the NIMOS can receive and display IR or TV video streaming by Wireless Data Link. NIMOS can also be integrated with C2/C4i system to display directly to the eye Digital Maps, Coded Messages and alarms in a silent mode and grab snapshots shared with C2/C4i, through wireless or wired link.

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