

Abu Dhabi, 18 February 2007

PRESS NOTE

SELEX Sensors and Airborne Systems presents cross sector capability at IDEX, Middle East's main Defence exhibition and one of the worlds largest tri service showcase

SELEX Sensors and Airborne Systems, a Finmeccanica company, formed by **SELEX S&AS** in the UK and **Galileo Avionica** in Italy, will feature at IDEX, in the Finmeccanica area, its leading technologies and products.

SELEX Sensors and Airborne Systems, Europe's second defence electronics company, provides leading technologies and equipment in Land, Aeronautics, Naval and Homeland Security sectors.

In the Land capability area:

SELEX Sensors and Airborne Systems is a leading supplier of sensors and airborne systems for military and security platforms in the air, at sea and on land.

In the land capability **SELEX S&AS UK** will display:

HALO: This equipment uses acoustics to detect gunfire and explosions and delivers unparalleled accuracy for effective counter fire/action. HALO is already in service with the British Army, the US Marine Corps and recently selected by the Canadian Department of National Defence.

LINAPS – Artillery Pointing System: SELEX S&AS's hugely successful Laser Inertial Artillery Pointing System (LINAPS) which is a self-contained gun-mounted navigation system which provides very accurate artillery pointing in all weather conditions, day and night. LINAPS is world's first electronic aiming technology for artillery. The company has delivered over 700 systems to countries worldwide.

AMBRIEL: A new and revolutionary wireless communications technology enabling hands free communication between flight crew and the platform intercom system without being physically connected to it. In removing the need for long leads and hand signals, the system creates a safer and more efficient environment resolving the problems of tangled and snagged wires that can restrict movement and become accidentally disconnected at critical moments. The technology enhances operational efficiency whilst improving the ability of operators to meet their duty of care to aircraft and ground based staff.

PicoSAR: A lightweight, compact Active Electronically Scanned Array (AESA) radar for small airborne platforms, such as UAVs and helicopters. PicoSAR is a Synthetic Aperture Radar (SAR) which provides high resolution ground mapping and target indication in all weather conditions.

Also for the land capability, **Galileo Avionica** is presenting the equipments for the "Soldato del Futuro" program developed for the Italian Army. These equipments were developed leveraging the company's long experience in observation and firing control systems for all the available platforms.

Galileo Avionica "Soldato del Futuro" equipments cover:

LINX: It is a multifunctional-multisensor Hand Held Global Target Locator System packaged in a lightweight unit for infantry squads, special forces and law enforcement forces involving forward observers and reconnaissance patrols. The LINX enhance the situation awareness during mission being capable to acquire and process target by recording a Digital Data Package made by target

range, angular position (azimuth and target elevation) respect to north pole, GPS data and the target Image both, in Infrared or TV channel.

ASPIS: It is the latest generation of multifunctional light integrated Rifle-Sight. The ASPIS enhances mission performance being capable of observation and aiming at long and short distance combining night/day video channels for the long distance, and Visible and Invisible Laser Pointers and a Red Dot for the short distance. A wireless transmission of night and day video signals processed by the ASPIS enables the Soldier to observe and fires “around the corner” and records snapshots of the scene in the receiver computer.

SCORPIO: Lightweight compact Fire Control System for 40 mm Grenade Launcher tubes that provide fast and accurate aiming and firing (LOS/LOF) capabilities giving to soldiers a powerful selective weapon system. A ballistic computer enhance the First Hit Probability against Standing and Moving target reducing the fire reaction time. The unit can be re-configured by uploading different firing tables (HE Frag, HEDP, etc.) and the selection can be done on the field.

NIMOS: Modular lightweight Helmet Mounted Display integrated with Low Light Level digital TV for soldier night mobility; moreover the NIMOS can receive and display the ASPIS Rifle Sight IR or TV video channels by Wireless Data Link for “shooting around the corner” capability. NIMOS can also be integrated with C2/C4i system to display directly to the eye Digital Map, Coded Messages and alarms in a silent mode and grab snapshots shared with C2/C4i.

Leveraging Galileo Avionica experience in developing autonomous flight systems and both SELEX S&AS UK and GA experience in sensors solutions, SELEX S&AS group is offering a facility of UAS from the mini UAS to MALE TUAWS.

Galileo Avionica in collaboration with Alpi Aviation features the STRIX an electrical Manoeuvre Class UAS Unit. The STRIX can be launched by hand or catapult, and has been specifically designed for Manoeuvre and Special Operation support. The STRIX UAS is carried using a compact lightweight back-pack, containing Ground Control Station, and Antenna. STRIX is Fully autonomous and interoperable with all Finmeccanica ISTAR assets and ground stations. STRIX is a critical node in a fully integrated networked surveillance system .

Galileo Avionica in collaboration with U.T.R.I features also ASIO, an electrical UAS VTOL Unit. ASIO has been specifically designed for Manoeuvre, Urban, and Special Operation support. The ASIO UAS is carried using a compact lightweight back-pack, containing Ground Control Station, and Antenna. ASIO is Fully autonomous and interoperable with all Finmeccanica ISTAR assets and ground stations. ASIO is a critical node in a fully integrated networked surveillance system.

Galileo Avionica terrestrial capability features also the JANUS.

JANUS is an Electro-Optic Platform, two axes stabilized with medium-high stabilization and position accuracy. The sight is a modular sensor head composed of a support pedestal and two axes servo unit equipped by electro-optical sensors (Thermal Imager, Video Camera and/or Laser Range Finder). JANUS can be used as Optronic Observation Equipment or a Fire Control System, both on Ground and Naval applications, where a passive control of specific areas is required. The Electro-optical capability of the company also includes the modular and compact aiming and firing LOTHAR which offers a day/night 24 hours capability.

SELEX S&AS features the BIL, an active thermal imaging sensor. The Active Imaging Technique is used for enhanced surveillance and targeting and uses a diode pumped pulsed eyesafe laser to illuminate the object of interest. The image is captured by a gated short wave infra red detector based sensor which only detects laser radiation returned from the object of interest. The gating function rejects all returns earlier and later than the object of interest. This eliminates backscatter and background clutter. The gate position can be varied and swept through object of interest. This allows the generation of a silhouette in order to aid target recognition and identification.

- Varied gate position allows sweep through of object of interest
- Silhouette can aid target recognition and identification
- Short pulse duration of laser effectively 'freezes' sightline jitter

In the Aeronautics capability area:

Among SELEX Sensors and Airborne Systems capability in the Aeronautics, **Galileo Avionica** presents Mirach 100/5. The Mirach 100/5 is a high-performance, reusable Aerial Target Systems which has become the standard European Armed Forces threat simulator. It can manage up to 8 targets simultaneously within a highly realistic training scenario and simulate multiple threats flying at high subsonic speeds. The system is controlled by a modern Ground Control Station that allows mission planning and retasking, mission rehearsal and play back, operators training. It is already used in Italy, France, Spain and UK as well as in the NATO Missile Firing Installation (NAMFI) in Crete. Galileo Avionica is also operating in the field of tactical unmanned deep reconnaissance platforms, developed as an evolution of the Mirach 100/5.

Galileo Avionica also participates in latest generation jet trainer M346 with the Mission Core System. The Mission Core System is a state-of-the-art, open architecture, highly flexible avionic suite developed for the M346 advanced trainer. The Mission Core System is based on an innovative mission computer that hosts the OFP (Operational Flight Program) and includes:

- The HUD 100 dual refractive combined Head-up Display with integrated up front control panel, featuring a high total field of view, raster, cursive and cursive on raster presentations;
- Three SMD 55 high resolution, 5" x 5" Smart Multifunction Displays. An added feature of the Mission Computer Symbol Generator is the Embedded Training Simulation (ETS) card that provides a complete tactical simulation for onboard training, including Radar A/A, A/G, EW, Weapons

At the IDEX exhibition, SELEX S&AS UK will display the HIDAS Comparator which gives a top level demonstration of HIDAS successfully defeating 4 pre defined scenarios. The interactive console allows both existing customers and potential customers to fly an Apache AH64-D against the 4 threat scenarios with either HIDAS switched on or off. The difference is life or death. HIDAS delivers unparalleled situational awareness, decreased pilot workload and manoeuvre cues to aid survivability. In service and operational with the British Army and selected by both Kuwait and Greece, HIDAS is a proven Aircraft Survivability Equipment battle winner. A variant of HIDAS (AGP) has also been selected by the US Army Block II Apache programme and the UAE Apache squadron.

In the Homeland capability area:

For the Homeland security, SELEX S&AS UK features Hydra. Hydra is a Remote Networked Sensor System which can provide surveillance solutions for Border Management, Critical Infrastructure protection, Crisis Management and Major event security. Hydra detects, identifies and tracks threats in areas where there is limited vehicular access and can be rapidly deployed in support of immediate response group actions. Hydra is an ad hoc networked system which automatically configures itself and reconfigures as the network changes. Hydra links automatically to the nearest Mobile Surveillance Vehicle or directly into the fixed infrastructure. SELEX S&AS proprietary software allows video to be viewed in real time at multiple levels of command from a local response unit to the national border security control centre.

Seaspray 7000E: It's a Surveillance Radar which can meet the full spectrum of air, land and sea surveillance requirements. This Active Electronically Scanned Array Radar is the latest in a line of

Surveillance Radars. With over 600 delivered this latest design offers a low cost, multi mode capability with less weight and far greater reliability than conventional radars.

The Pinzgauer All-Terrain Mobile surveillance vehicle is a highly flexible, rapidly deployable, network enabled surveillance asset. It can be used stand alone or integrated with other systems such as the Hydra Unattended Ground Sensors to provide surveillance solutions for Border Management, Critical Infrastructure protection, Crisis Management and Major event security.

The Pinzgauer vehicle is available in armored versions and is used by security forces across the world; it is recognised for its mobility and flexibility. It has been fitted with modular Radar and multiple band Electro-optic sensors and provides an integrated Command, Control and Situational awareness system. The sensor payloads can be managed from within the vehicle or remotely, and captured imagery can be recorded or relayed back to Command and Control centres via on secure on-board communication systems.

To be installed on various platforms, Galileo Avionica developed for Homeland Security the SIM GA HYPER. SIM GA is a modular airborne hyperspectral system composed by cameras operating from the VNIR to the SWIR bands (0.4 to 2.5 micron), and a Digital Data Acquisition System. Creating the spectral fingerprint for every observed object, the SIM GA can be used in missions ranging from intelligence to environmental protection. Flight test campaigns are currently being performed successfully.

Moreover, Galileo Avionica is displaying its ATOS, Airborne Tactical Observation and Surveillance System. The ATOS family of systems is an advanced mission system, including operator consoles and a wide range of sensors. It meets with the growing demand for surveillance, EEZ protection, Search and Rescue, border and critical infrastructure protection, pollution detection, disaster control, anti submarine warfare. The ATOS-LW system displayed at IDEX is available for fixed and rotary wing platforms.

MEDIA RELATIONS:

GALILEO AVIONICA

Solange Distefano Pozzuoli

Tel. +39 06 41883852

Mob. +39 335 7499374

Email: solange.distefanopozzuoli@galileoavionica.it

SELEX S&AS UK

Jane McGirk

Tel. +44 0131 343 8993

Mob. +44 07736 810172

Email: Jane.mcgirk@selex-sas.com