List of Exhibition Highlights and Exhibits at Singapore International Air Show- 19-24 February, 2008:

At the upcoming Singapore Air show, the Elbit Systems Group will present a full range of capabilities, all of them based on advanced technologies developed in-house and considered breakthroughs in their respective fields.

A virtual presentation will depict the synergy between companies in the Elbit Systems Group, and how the interconnectivity among systems enables offering totally integrated solutions, vital for tactical superiority in future combat scenarios. This presentation will include a unique, interactive virtual cockpit that allows visitors to experience dynamic flight experiences and missions in various fixed and rotary-wing platforms. A full-screen, interactive panorama will feature high fidelity, out-of-the-window, stunning views and special effects replicating how the avionics systems perform in fully realistic views. This show is now further enhanced by the addition of the Groups’ capabilities in electro-optics as well as in Electronic Warfare/ELINT. Elbit Systems’ HeliC3om - Advanced Command, Control, Communication & Mission Management System will take active part in the demonstration. This is an advanced Command, Control, Communication and Mission Management System and 3D Digital map that provides helicopter pilots and crews with data communications and transmissions, real-time accurate tactical pictures and enhanced situational awareness.
Elbit Systems’ Integrated Infantry Combat System (IICS) will be demonstrated “live”.
Elbit Systems was selected by the Israel MOD to head up the IICS Project.
The project aims to equip soldiers in the field with highly-advanced, miniaturized, hi-tech tools mounted on backs or helmets for enhanced situational awareness, quicker response and ultimately, increased lethality. The system empowers infantry soldiers with capabilities allowing them to be networked into integrated information systems so they can send and receive information in real-time, view up-to-the-minute situation pictures on personal displays, transmit images and positions back to command units.

CORAL CR - Hand-held 3-5 µm FPA Thermal Imaging Target Acquisition System

A hand held high resolution Dual FOV personal 3-5 µm Thermal Imaging Camera and target acquisition system incorporating a FLIR with an integral digital compass, GPS receiver and a laser rangefinder. CORAL CR’s light weight (less than 3.4 kg), ruggedized construction, and excellent picture quality are ideal for security and perimeter defense missions. CORAL CR includes target acquisition capabilities in order to identify self position and detected target position. It can also function as night sight for medium range weapon systems or night binocular for light patrol boat commanders.
**Bro@dnet** –

Based on wireless broadband WiMAX technology to deliver long-range, high-capacity broadband IP-Based data, video and voice telecommunications, the Bro@dnet system enables all combat units and commands to use a single Internet network that includes all battlefield information. Bro@dnet will be depicted graphically.

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**PRC-710MB (Multi Band)**

The PRC-710MB is an advanced multi-band (30 MHz - 512 MHz), frequency hopping handheld radio, covering VHF and UHF tactical bands, to facilitate communications between ground, airborne and naval forces. It is an ideal solution for Special Forces, enabling ground-to-ground and ground-to-air communications from the palm of the hand. This product will be shown as part of the Dominator™ gear.

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**CNR-9000HDR (High Data Rate)**

The world’s highest rate data communications, 115 Kbps over 25 KHz standard bandwidth tactical VHF channels, this multi-mode radio enables streaming video on the move. With enhanced speech intelligibility, wideband synchronized orthogonal frequency hopping and COMSEC/ECCM anti-jamming, the CNR-9000 HDR’s advanced secure tactical IP radio provides superior technological foundation for software radio systems. The product will be demonstrated as part of the Dominator™ gear.
RPDA - Rugged Personal Digital Assistant

Fully rugged, tactical, dismounted computer that serves as a command and control messaging terminal.
The RPDA can be used for mapping, navigation, routing, situation awareness, forms and message transfer, mission planning, and many other digital battlefield applications.
RPDA includes an embedded GPS receiver and a radio communications controller as strong computing capabilities.

PNR-500 (Personal Net Radio)

The PNR-500 is the first fully-functional UHF communication voice and data radio for the squad and is suitable for all types of field conditions. The PNR-500 is ideal for conferencing, coordinated decision-making and immediate action.
Specially designed to meet the needs of true battle conditions, the PNR-500 enables 3-way conferencing on a single network.
This allows platoon soldiers to communicate simultaneously among themselves, as well as with commanders. Equipped with unique "always available" features, the PNR-500 ensures that emergency or mission-critical communications are always transmitted, even if the system is being used at full capacity. This product will be shown as part of the Dominator™ gear

VIC-1000 Advanced Digital Vehicular Voice and Data Intercom System

Enabling IP-based inter-team and intra-team connectivity and Radio Conferencing for maximum operational coordination and mobility, Tadiran’s VIC-1000 is designed for armored vehicles, command, reconnaissance and artillery unit.
VIC-1000 is a drop-in replacement for legacy intercom systems. This product will be shown as part of the Dominator™ gear
Skylark®I

This mini man-pack UAV system is well suited for very close range, beyond-the-hill missions. The system is especially designed for counter-terror applications. Performance-proven in cloudy, rainy and windy weather conditions, Skylark® I has demonstrated excellent optical survey, target identification and surveillance capabilities. Hand-launched, Skylark® I can be used for both defense and homeland security applications including perimeter security, border and coastal surveillance, anti-terrorism surveillance and a variety of law enforcement missions. Skylark® I has already been procured by defense and homeland security authorities of numerous countries.

Training & Simulation Solutions

Elbit Systems has over three decades of experience in training and simulation solutions. With in-depth knowledge of the combat environment and special needs of the fighter, whether airborne, ground-based or at sea, we have designed, developed, delivered and deployed operational and tactical, virtual and embedded trainers and simulators to the world’s most sophisticated forces. Our total training solutions incorporate real world experience due to our work force... active military pilots, tank and naval commanders, whose operational experience is translated into superior training and simulation. These capabilities will be shown in video presentations. At the outdoor exhibition, Elbit Systems will display a variety of unmanned aerial vehicles and advanced electro-optical payloads demonstrating leadership in both areas.

Hermes®-900 Elbit Systems new Tactical MALE

Looking to address the growing demand for Tactical MALE UAV platforms, Elbit Systems has recently added the Hermes 900 to its growing UAV family. With its 15m wingspan and 970kg max takeoff weight, the Hermes® 900 is a natural extension of the Hermes 450 tactical UAV systems with full compatibility in missions and support infrastructure. While offering all Hermes UAV family capabilities, it features larger multi-payload configurations, higher flight altitude and extended flight time.
The Hermes® 900 is an all weather UAV system. Its IATOL (Internal Auto Takeoff and Landing) system enables auto-landing even in alternate non-instrumented runways. Like the Hermes 450, internationally renowned for its unmatched safety record and reliability, the Hermes®-900 features full redundancy and fault tolerant avionics and electronics architecture. Its fully-certified Rotax engine is safe and quiet. The new UAV is well-equipped with advanced features including built-in autonomous emergency procedures, ATC Air Traffic Control radio, Radio relay, and IFF transponder. With larger payload capacity (300Kg) and longer endurance, the Hermes® 900 is controlled by Elbit Systems' UGCS Universal Ground Control Station which can control two UAV's at any given time from a single station while a single operator operates the AV Air Vehicle and payloads for each UAV.

The new Hermes® delivers the highest quality of performance for the lowest life cycle cost; a distinction based predominantly on its lowest number of operators and maintenance crew requirements.

The Hermes®-900 system supports numerous missions and specialized applications such as Electro-optics, IR Imaging Laser range finder and Laser designation as well as SAR/GMTI, COMINT DF, ELINT an Electronic Warfare. The system maintains secured redundant Line Of Sight (LOS) Data link as well as Redundant Satellite communication Beyond Line of Sight (BLOS).

**The Hermes® 450**

is a major player in Israel's ongoing security activities and is the IDF's primary UAV system. The versatile, long-endurance UAV, equipped with Elbit Systems' CoMPASS™ EO/IR/LD gimbaled electro-optical payload, can adapt to a wide range of payloads, including SAR/GMTI radar and dual payload configurations. Hermes® 450 executes its
diverse missions in a highly autonomous manner and is controlled by the Hermes® Universal Ground Control System (UGCS), facilitating highly automated mission operation and control of the air vehicle and EO/IR/Laser payload. For the first time, the Hermes® 450 will be demonstrated with its new R902 engine also called “W” engine, which is a wide Wankel Engine Block developed by Elbit Systems and is the only one of its kind designed specifically for UAV platforms. Currently in advanced development stages, the lightweight, compact and economical R902’s advanced features put it at the forefront of UAV engines and position the Hermes® 450 as a platform capable of carrying substantial equipment for long durations.

**Laser-Guided Bomb Adapter (LIZARD)**

A Laser Seeker adaptation to normal "dumb" bombs for improved hit accuracy against moving targets and strong winds, featuring improved jamming rejection.

**DCoMPASSTM -Compact Multi-Purpose Advanced Stabilized System,**

is the first electro-optical payload system providing full digital open architecture. This highly stabilized, 4 gimbaled, multi-sensor system had been chosen for the prestigious "WATCHKEEPER " program, and is in current serial production with a backlog of several hundreds. DCoMPASSTM delivers superb day and night intelligence, surveillance, target acquisition and tactical reconnaissance (ISTAR) capabilities in the harshest weather conditions. DCoMPASSTM is based on the legacy 15" CoMPASSTM system and is part of the Elop family of battle-proven, stabilized EO payloads, in service with the Israel Defense Forces (IDF), and other customers worldwide on various platforms.
Micro-CoMPASS

is an 8” extremely lightweight and compact payload system for small UAV’s, airborne, marine and ground applications. It features excellent stabilization performance and high quality day and night sensors. Sensors onboard include 3rd Generation 3-5 µm FPA zoom FLIR camera, zoom color CCD camera and a laser pointer.

MUSICTM- Multi-Spectral Infrared Countermeasure

is an advanced fiber laser based DIRCM system that protects all types of aircraft and helicopters against man-portable heat seeking surface-to-air missiles known as MANPADS. MUSICTM has high reliability and low life cycle costs and is an effective solution for protecting military, VIP and commercial aircraft.

Spectrolite –

The Unified EW (Electronic Warfare) Suite and ESM System for airborne platforms- The most advanced EW Suite and ESM capabilities have been packed into a single LRU, delivering superior identification and location under challenging conditions. The resulting accurate Direction Finding of received signals and geo-location, significantly increase interception probability and enable swift extremely fast response time, minimizing the “sensor-to-weapon” loop. The system integrates incorporates with Chaff/Flare and a tie-in with MWS and with various jamming systems such as integrated self protection systems, Escort and Stand-Off Jammers. The Spectrolite enables to perform any scenario required for the success achievement for the protection of the mission group. The Unified concept is also expressed in adaptability, simplifying and reducing training, installation and maintenance costs.
PAWS the Effective IR Missile Approach Warning System

PAWS is a highly effective family of operationally deployed staring IR Missile Approach Warning Systems. Drawing on its all-in-one concept for cost-effectively integrating multiple capabilities, ELISRA’s IR solutions offer: Missile Approach Warning, Panoramic display, Collision Avoidance, Small Arms Fire Warning and Detection. Software integration of these powerful capabilities does away with the need for multiple units on airborne platforms, saving space and considerably reducing costs. The entire IR line of products features superior ultra-accurate real-time identification of incoming missile direction, even when launched from a short range. Adoption of IR technologies enable to detect incoming missiles during the boost and the sustainer phases therefore increase in range detection and reduction in FAR is achieved for all types of missiles and at high altitudes.

The IR line of products includes:
- PAWS - Passive Approach Warning System - for Helicopters and Transporters protection
- PAWS-2 - Passive Approach Warning System - for Fighters protection
- LORICA - for commercial airliners protection
- SWAD - for high-value infrastructure and strategic areas day/night protection
- EXPLIR - for explosions location

ELINT and COMINT Payloads for UAVs –

Among Elisra’s solutions are the Emerald AES-210V (ELINT) and the SkyFix (COMINT) systems, designed to meet the full range of UAV tactical and strategic mission requirements. Assuring success even in hostile scenarios, they detect, identify, and locate ground-based, airborne, and ship-borne radars as well as communication emitters. Lightweight and modular, these systems are easy to install and to remotely operate from a ground control station. Elisra showcases its wide range of solutions for UAVs in Elbit Systems' stand at the Singapore Airshow 2008 Exhibition. Based on decades of hands-on experience in conflict arenas around the world, together with the
company’s exceptional technology, Elisra’s cutting-edge solutions meet all the needs of UAV-related missions. Supporting all types of UAV platforms, applications and uses, – Elisra’s systemic solutions are ideal for Intelligence, EW and homeland security applications, – including information gathering, targeting, and self-protection. Elisra’s families of advanced solutions enable rapid and precise information gathering as well as target determination, and support the seamless integration of information dissemination with C4I capabilities – assuring the most effective utilization of fire power and significantly improving the survivability of UAV platforms for mission completion, while tightening the sensor-to-shooter loop.

In addition to their use on the modern battlefield, Elisra’s sophisticated systems are also available for commercial applications and for the protection of strategic facilities as well.

**Dissemination of Intelligence via DL (Data Link), VoIP and Battlespace**

Video Net Systems - from command posts to the individual fighter. Decision-makers can take effective decisions and ensure that they are implemented rapidly and accurately. The Dissemination system includes the recently launched Miniaturized V-RAMBO Video Receiver and Monitor introduced by Spectralink.

The new V-RAMBO model features a video and telemetry receiver the size of a small PDA, which can be carried in a pocket or pouch. The video and data can be displayed in real time, either on V-RAMBO’s proprietary wrist-wearable monitor, or on other types of portable display devices, including PDAs and laptop PCs.

**The MRS-2000 (Man-pack Receiving System)**

is a fully integrated, all-digital, ruggedized transceiver receiving, displaying and disseminating in real-time UAV-derived video images and telemetry data.

The new generation AMTS, Active Man-Pack Transceiving System, is also an excellent solution for intelligence reception. Designed for a variety of surface platforms, it receives, processes and displays real-time video
images and telemetry data arriving from a variety of sensors. Image intelligence (IMINT) is displayed on the hand-held Operator and Control Unit (OCU), which provides operators with full command and control of the platform’s activities while greatly reducing operator risk of exposure to the enemy.

**V-STAR**

a unique, pocket-sized and exceptionally smart 3rd generation active C4I System. Utilizing today’s newest and most sophisticated technologies, the system receives, displays Situation Awareness, and broadcasts data in real time to critical locations such as field headquarters, aircraft, and combat soldiers. Enabling a combined, unified, real-time picture for all echelons - from decision-makers to soldiers in the field - the system significantly shortens the sensor-to-shooter loop.