ELBIT SYSTEMS LTD.

TORC²H™ - All-in-one C⁴I system

TORC²H covers all army branches and echelons, enabling universal situational awareness as well as in-depth collaborative mission planning and management based on real-time information and an always-updated common operational picture. This includes TORC²H -D, the dismounted version of TORC²H, enabling mission deployment and control of the tactical units and soldiers in the specified area of operations.

Tactical Reconnaissance and Surveillance Enhanced System (TREASURES™)

Elbit Systems’ TREASURES Unattended Ground Sensors (UGS) detect, track and identify human and vehicular enemy targets – enabling total control and terrain dominance. With a high probability-of-detection (PD) and low false alarm rates (FAR), the UGS easily integrate with existing sensors and are compatible with any C⁴I system.

PNR-1000

Lightweight personal network radio (PNR) with automatic voice and data relay. This advanced PNR offers 64-member ad-hoc networking including full-duplex voice conferencing, data and video. As the newest generation of PNR at the full NATO RF spectrum 225-512 MHz, the PNR-1000 is the lightest of its kind in the market.
MCTR-7200

Family of tactical software-defined radios offering superior operational versatility for the dismounted soldier. The MCTR-7200 are multi-waveform tactical IP radios that feature a uniquely designed software communications architecture, an intuitive user interface and multiple configuration options. The multi-use, single platform contains powerful programmable hardware that offers reliable triple play services - voice, video and data – simultaneously over a single narrowband tactical 25Hz channel and high speed data over wideband channels.

HF-8000

Multi-adaptive HF radio systems for continuous long-range communications

Expanding the traditional boundaries of HF communications, while maintaining user-friendliness and operational efficiency, this HF SSB/2-ISB radio system features cutting-edge technology, facilitating robust and reliable communications even in the harshest battlefield conditions.

ELSAT MSR 2000E

Tactical satellite solution for on-the-move beyond line-of-sight (BLOS) communication. An advanced satellite on-the-move (SOTM) solution, the MSR2000E is ideal for mobile and maneuvering military forces and is fully integrated with the InterSKY™ 4M tactical broadband satellite communication platform. The system comprises a rugged broadband router, low-profile antenna (Elsat 2000 or Elsat 2100) and radio frequency terminal (RFT) that work together to seamlessly deliver reliable communications on and off the battlefield.

GRX-8000

ECCM, high capacity and frequency-hopping radio relay system for interference-free communications.

GRX-8000 is the latest generation NATO Band IV with Dual Mode – High Capacity (HC) and Frequency Hopping (FH) – line-of-sight broadband radio relay system. Designed to meet present and future tactical communications requirements, the battle-proven GRX-8000 supports the latest IP and legacy communications protocols. With jamming resistant ECCM, the software-defined radio relay system enables interference-free communications across the battlefield.

Platforms upgrading, leopard 1 tanks, mortar and artillery will be on display by graphics
ISRAEL at FIDAE 2016

SkyBreaker™ - Unlimited Access to the Sky

Elbit Systems’ SkyBreaker Mission Training Center (MTC) is a networked multi-cockpit, mission oriented training center supporting many aircraft types. The MTC provides realistic simulated battlefield training using all aircraft systems and mission scenarios to enhance all levels of pilot training. A world leader in field-proven training and simulation solutions, Elbit Systems developed SkyBreaker to save actual flight hours by presenting aircrews with high-fidelity, simulator-based training. The SkyBreaker facility houses a complex networked system designed to provide an entire squadron with the tools to practice modern air combat using SkyScen™, a sophisticated Computer Generated Forces (CGF) solution, in a fully integrated military setting.

LCTS – Soldier (Live Combat Training System)

Innovative live training suit, combines laser, communication and control for all dismounted soldiers training scenarios. LCTS – Soldier provides a comprehensive solution for joint tactical force-on-force live training. LCTS offers a realistic, unified, live training environment, fully independent and easily deployable. The system enables efficient training in various terrains, including urban areas. The fully integrated training system combines open eye laser suites for dismounted infantry, mobile broadband communication and control center capabilities. LCTS - Soldier offers many unique features to train special forces, for close combat, anti-terror and VIP protection scenarios. Together with LCTS – Combat Vehicle, the system offers a complete, combined arms exercise up to the Brigade level.

Special Mission Aircraft

(Will be on display by graphics)

Elbit Systems provides turnkey mission suites for fixed wing aircraft, providing persistent multi-sensor aerial reconnaissance and exploitation solutions, through the integration of high resolution sensors, advanced exploitation and analysis tools, avionics and C4I capabilities. Leveraging Elbit Systems’ vast operational experience and in-house capabilities, we are able to offer an end-to-end solution for our customers’ special mission aircraft operational needs. Our versatile mission suites are easily reconfigured for a wide range of missions and are designed for a large variety of aircraft of different classes. Elbit Systems’ advanced upgrade programs rejuvenate mature aircraft with enhanced performance, extended life and next-decade capabilities and enable such aircraft to face the challenge of today’s digital, interactive air-combat arena.
AIRCRAFT UPGRADES

Elbit Systems is one of the leading companies in the world in upgrading fighter aircraft and has been a successful supplier of avionics equipment, including for all F-16 versions, and has been integrator for over 30 years. Elbit Systems is involved, worldwide, in upgrade programs of hundreds of aircraft and maintains its in-house capability of design, development and manufacturing of avionics equipment such as digital displays, head-up displays, head mounted display systems, weapon systems and mission computers. Elbit Systems has specific expertise in Western and Eastern platform modernizations, which will be fully utilized in the A-36 upgrade, providing total solutions, based on in-house core competence and technologies. Our turnkey solutions go beyond systems and products to long-term maintenance, technical support, full integration, installation and product training, as well as partnering with local industries.

All-in-Small™ Complete Airborne Self-Protection Suite

All-in-Small is a cutting-edge, integrated EW suite in a single LRU, with comprehensive, advanced EW capabilities. It is comprised of an EWC—Electronic Warfare Controller, RWR—digital Radar Warning Receiver, PAWS—IR Missile Warning System, LWS—advanced Laser Warning System and CFD—Chaff/Flare Dispensing system.

The system is extremely small and lightweight and has a modular and open architecture with multiple interface abilities. The suite can be effectively integrated with direct infra-red countermeasure (DIRCM) systems, due to its high range detection and direction finding (DF) accuracy, by operating both in the same wavelength, thus enabling extremely fast hand-over from IR PAWS to DIRCM and enhancing deception probability. All-in-Small can be provided together with IR-Centric™, a multi-spectral emitter, as well as geo-location and net-centric capabilities.

PAWS

The PAWS family of IR-based (Infrared) Passive Warning Systems provides a comprehensive, turn-key solution for airborne platforms. The sophisticated IR Missile Warning Systems (MWS) enhance airborne platform survivability by providing advance warning of the presence of threatening missiles - and by automatic management of all types of applicable countermeasures available onboard.

The PAWS family of systems operates either as stand-alone, self-contained systems, or as part of a complete EW Defense Aid Suite (DAS). The systems provide threat information to other EW and/or avionic systems for centralized /Human Machine Interface (HMI) management.
EMERALD – AES 212 - Modular
ESM/ELINT systems for comprehensive radar detection

The EMERALD is an operational electronic surveillance measures/electronic intelligence (ESM/ELINT) system for all types of manned and unmanned aircraft and naval platforms. Designed for the densest and most complex electromagnetic environments, it meets the rapidly evolving needs of today's modern battlefields. The system delivers sophisticated intelligence gathering capabilities for the detection and analysis of all types of radars - ground-based, airborne and shipboard.

COMINT/DF SYSTEMS

Our operational and battle-proven COMINT/DF systems are, designed as modular building blocks, capable of tackling various types of communications systems and able to fit any unmanned aircraft systems (UAS). These systems utilize wideband multi-purpose receivers and meet the requirements of any EW/SIGINT payload, offering tactical intelligence reception in real time over wide rural and urban areas, and enabling digital audio-recording.

FPR-10 - Foliage Penetration Radar

FPR-10 is a Ground Surveillance Radar (GSR) providing long-range, accurate, high-resolution detection of vehicles and personnel that are located in or behind foliage. The FPR-10 is designed to withstand harsh environmental conditions as well as foliage interferences and disturbances.

FPR-10 covers a wide range in azimuth and elevation, together with long-range detection, even in areas of dense foliage. High reliability of the FPR is achieved by the radar’s sophisticated design, which has no moving parts. Large areas - including international borders, air and seaports - can be secured through the use of multiple units that together provide end-to-end, overlapping coverage.
Hermes™ 900

A model of Hermes 900 Multi-Mission, Multi-Payload Long-Range Medium Altitude Long Endurance (MALE) Unmanned Aircraft System (UAS) will be on display.

The Hermes 900 offers long endurance, a flight altitude of more than 30,000 ft., unique internal/external payload capacity and flight capabilities in adverse weather conditions. The latest generation Hermes 900 provides a unique, expeditionary, long-endurance and cost-effective solution for a variety of air force, navy, army and paramilitary applications.

Skylark™ I-LEX

A new generation of the legacy Skylark I-LE mini-UAS, this man-portable electric propelled UAS is best suited for organic “beyond the next hill” reconnaissance, counter insurgency and force protection missions, as well as civil applications including perimeter security, border and coastal surveillance, anti-terror and a variety of law enforcement missions. The Skylark I-LEX is already operational as the standard battalion level UAS of the Israeli Land Forces and has accumulated thousands of operational sorties.

Seagull™

Will be on display by graphics

A new generation Unmanned Surface Vehicle (USV), the multi-mission and highly autonomous Seagull is a 12-meter USV system with replaceable mission modules, operated and controlled in concert by a Mission Control System (MCS) from manned ships or from shore. The system provides mission planning, survey, search, detection, classification, identification, neutralization and verification in support of mine hunting operations.
J-MUSIC™
Will be on display by graphics

A high-performance Direct Infrared Counter Measure (DIRCM) system for protection of aircraft against shoulder-fired-missiles (MANPADS).

J-MUSIC is designed for distributed installation on a wide variety of medium to large platforms, with single or multi-turret configuration. It can also be integrated with various missile warning systems (MWS).

mini-MUSIC™
Will be on display by graphics

Mini-MUSIC is the newest member in Elbit Systems Electro-optics EloP's MUSIC family of proven DIRCM systems. Lightweight and compact, mini-MUSIC diverts MANPADS threats, using the same proven fiber laser technology employed by all the MUSIC systems. Providing superior protection, mini-MUSIC is easily installed on small and medium rotary and fixed-wing platforms.

AMPS™ - Strategic ISR for Manned and Unmanned Aircraft
will be on display by graphics

AMPS is the largest member of Elbit Systems’ battle-proven family of stabilized airborne EO payloads, providing outstanding top end, highly stabilized real-time imagery. Optimized for airborne applications, AMPS delivers market leading day and night ISTAR capabilities in all weather conditions. AMPS is being upgraded for longer ranges.

By providing long observation ranges, AMPS enhances the quality and increases the output of target intelligence production, while improving crew survivability.

Long View CR/SW (SWIR)

LONG VIEW CR/SW is a versatile combined day/night system for long-range observation and target acquisition. Integrating a long-range zoom, thermal, day and SWIR (optional) channels, eyesafe laser rangefinder, GPS and magnetic compass and mounted on a tripod or P&T, LONG VIEW CR is an outstanding tool for acquiring targets and engaging fire from long ranges.
**XACT nv32**

A micro compact image intensifier night vision monocular or dual monocular system, XACT nv32’s revolutionarily light weight allows extended usage time. Its exceptional Image quality is due to high end auto gated image intensified tubes and glass optics. Multiple mounting options maximize operator adaptability.

**XACT th64**

A thermal weapon sight, weapon mounted or hand held, XACT th64 has a genuine shutter-less uncooled thermal engine, completely digital display and operation. Its built-in recorder allows capture of image and videos. The sight is light weight with small dimensions.