

# Pioneering EW Solutions to the Constantly Challenging Needs

ELBIT SYSTEMS EW AND SIGINT - ELISRA

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## A Constant Pioneer on the Frontier of Innovation

Approaching its sixth decade, Elisra continues to maintain a leadership position in EW and SIGINT. Addressing emerging needs, the company offers networked, unified and interconnected capabilities. All of Elisra's systems - EW, SIGINT and C2 - are interoperable and integrated among themselves and within a networked grid.



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## A Constant Pioneer on the Frontier of Innovation

EW has become increasingly central to the current challenging modern battlefield and is now an integral part of today's electromagnetic and information warfare environments in all five domains: air, sea, land, space and cyber. Israel's EW development mirrors the dramatic changes and achievements this field has experienced world-wide.

## A Bond Is Formed

EW emerged in Israel in 1967 following the Six Day War. Elisra - now "Elbit Systems - EW and SIGINT- Elisra", was founded in 1966. The Israeli military forces together with its EW source Elisra, have since continued their successful technological and operational achievements. These are often the first of their kind and the only solutions available.

## Battle Smart

The intelligence, self protection and communications solutions provided by Elisra to the IDF and many other military forces, reflect Israel's unique realities:

- Constant existential threats, both symmetric and asymmetric
- The demanding standard of requirements set by Israel's military forces regarding performance, supply time-frames and ongoing integration of operational feedback. These have ensured that Israel's air, naval and ground forces are provided with the best, and at times the only available solutions to rapidly changing and challenging needs.
- In-house vertical capabilities to ensure set-back free, independent production processes.
- Highly motivated and creative R&D engineering teams with first hand personal experience as either users in combat or as customers defining their forces' needs.

## First with UAVs

In the late 1970s' Elisra pioneered EW and intelligence integration onboard the world's first military UAV. By 1980 the company's COMJAM Electronic Jammer was proven operationally onboard additional UAV type.

These achievements established Elisra as a pioneer and a world leader. For nearly four decades, the company has continued its presence onboard a growing number of UAV platforms. Elisra's succession of technological breakthroughs and firsts has culminated in the company's current and operationally proven integrated suites. The result provides today's UAV with comprehensive, integrated suites, both SIGINT and EW, effectively turning a UAV into an operational and integral platform for the entire array of self defence, intelligence gathering, and electronic attack. This transforms a user's capability across the spectrum of combat environments.



## Ready to Meet New Threats

Wars and conflicts in the last two decades have presented the EW world with challenges previously unknown. The new threats demanded immediate response to ensure force survivability. In Afghanistan and Iraq, where wars have lasted for over a decade, armed forces, facing ongoing, low-intensity combat, encountered the two most frequently met threats, IEDs and shoulder-fired missiles (MAN PADs).

## RF C-IED - a Revolutionary Approach to Protection

Forced to defend its borders and homeland from armed forces, guerilla and terror attacks, Israel has been dealing with IED threats since the early 1980s. Quick to respond, Elisra has provided the IDF with the world's first RF Counter IED (C-IED) solution, making Israel the only country, at the time, with a complete answer to IED threats. This successfully prevented large military and civilian losses. Elisra's systems were later successfully used by a variety of international forces, operating worldwide.



This established Elisra as a world leader in RF C-IED solutions for the past thirty years. The company contributes daily to force survivability in various conflict zones, providing armed forces with the latest, advanced generation of its mounted, man-packed and miniature EJOB family versions.

## Fighting IR Threats and Then Some....

Asymmetric warfare in Iraq, Afghanistan and other military and civil conflict zones introduced shoulder fired missiles (MAN PAD) as a new threat to military and commercial aircraft. The correct response was required. Elisra responded by offering a revolutionary concept- IR-CENTRIC®, a staring IR-based multi-functional system, the first operational system of its kind. Operationally and combat proven, Elisra's system is a measurable self-protection force multiplier for military, commercial and VIP fixed and rotary wing aircraft. Underscored by the company's PAWS family, Elisra's IR-CENTRIC® approach presents an all-encompassing, comprehensive solution offering missile and hostile fire-detection and warning, optimal and accurate activation of countermeasures (protection from first shot), situational awareness, collision alert, and more.



## Self Protection Solutions on New Terms

Today's pressing need for comprehensive interoperability can finally be addressed by the advanced technological breakthroughs of the modern R&D. All self protection systems and technologies now must function as one seamless system. Elisra's self protection suite, designed as a full package for any platform and against any threat, underscores an emerging approach to self protection. Harnessing its considerable knowhow, Elisra developed the definitive next-generation protection solution; a light, small and versatile system for any airborne platform. This system includes a complete integration of internal or pods RF (RWR, Jammers and COMJAM), EO (MWS, LWS, DIRCM), passive and active technologies. Recognized as a new



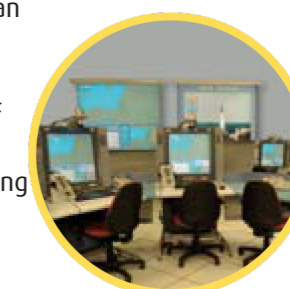
capabilities threshold definer, Elisra's all-in-one suite, already successfully operated by the IDF, has been quickly adopted by armed forces worldwide. The system increases a user's portfolio of protected airborne platforms to include combat and transport aircraft and helicopters of all types. The rapidly growing significance of unmanned airborne systems in conflict zones of different types has lead Elisra to add self protection to that range. The result - a multi-functional platform providing assured survivability and successful mission completion.

## A New Approach to IEW

Based on the company's extensive know-how and experience, a new EW intelligence solution has been created for both independent and cooperative operation on land, in the air or both. This IEW family of solutions combines the capabilities of SIGINT (COMINT, ELINT) and command & control, with the EW (COMJAM and ECM) into an end-to-end sophisticated solution. This intelligent integration of both the EW and the intelligence elements into a single electro-magnetic comprehensive system, maximizes the power of each separate system to deliver a significantly greater, exceptionally effective impact.

## Information in Action

Advanced intelligence systems for an evolving modern battlefield have been a part of Elisra's arsenal for decades. Elisra has provided the IDF and other military forces around the globe with a variety of pioneering SIGINT (COMINT, ELINT) C2 and Data Links solutions.



## Protecting the Homeland

By providing its command, control, communications, computing and intelligence (C4I) segment, Elisra has also been a significant contributor to one of Israel's highest technological and operational achievements, namely, its advanced, unique, active defense system against.

