



## Creomagic Debuts Advanced Communications Technology for Airborne Platforms at Loitering Munitions Conference

*Featuring secure, high-performance SDR solutions designed to enhance connectivity and control for loitering munitions in complex environments*

NESS ZIONA, Israel – November 21, 2024. Creomagic Ltd., a pioneering communications developer, and a trusted provider for leading loitering munitions platforms, showcased its advanced communication solutions and highlighted recent strategic partnerships at the Loitering Munitions Conference in the UK. Tailored to meet the rigorous demands of airborne operations, Creomagic's advanced SDR (Software-Defined Radio) technology delivers ultra-secure and reliable connectivity, essential for mission-critical airborne applications in challenging environments.

Recent global conflicts have highlighted the crucial role of UAV's and Loitering Munitions on the modern battlefield, along with the critical challenges facing these technologies today. Reliable data exchange has become vital for airborne networks, particularly for unmanned systems that require robust, extended-range control via ground stations, along with seamless interactions with other aerial units. The need to transfer and synchronize massive volumes of critical data has elevated the demand for advanced network scaling and high data rates with low latency. What's more, these operations often take place in interference-prone, spectrum-limited environments, where top-tier security and reliability are paramount.

Creo-ADL provides advanced Communication Security (COMSEC) and Transmission Security (TRANSEC) features to ensure secure and resilient communications. The system incorporates continuous spectrum scanning and analysis, AES-256 encryption, and sophisticated frequency hopping, with automatic interference avoidance powered by cognitive SDR and advanced waveforms. Its precise RSSI (Received Signal Strength Indicator) tracking and range measurement, based on signal-of-arrival techniques, enable RF-based positioning for GPS-denied navigation. Together, these features reduce the likelihood of interception and detection (LPI/LPD) and deliver robust protection against electronic warfare (EW) threats, including hostile jamming and interception attempts.

*"Creo-ADL's **operationally** proven solutions include a variety of tailored configurations to meet the needs of diverse mission types, from the most basic Size, Weight, Power, and Cost (SWaP-C) solutions, to advanced operational units fully certified to military standards (MIL-STD)," said Alex Shapochnik, CEO of Creomagic. "Our ground stations span the scope of short-range missions right up to complex dual-tracking systems for medium and long range. Designed for multi-platform, scalable applications, and supporting a wide range of communication protocols and interfaces, our versatile core technology, CreoNet, represents a one-stop solution for a variety of deployment scenarios."*

Creo-ADL was recently chosen as the preferred system by two major partners in substantial agreements, including:



- A follow-up deal with a world-leading communications systems provider to support multi-platform operations for long-range airborne platforms. The solution features encrypted, adaptive video compression that dynamically adjusts to the operational environment, along with advanced protection against electronic warfare (EW) threats.
- A Western European integrator, who required the integration of C4I software for the provision of tactical awareness for forces in the field (video and voice integration). After examining several systems, the company found CreoMagic to be the best combination of performance, price and variety of solutions, along with superior integration with C4I systems.

From LM's, UAV's and manned aerial networks to personal tactical radios for special forces and first responders, and even ground solutions for robotics, CreoMagic continues to develop advanced products to support the needs of its diverse client base.

Creomagic, together with its strategic partners, including UVision Air Ltd. and others, showcased Creo-ADL technologies at the Loitering Munitions Conference in the UK, 19-20 November 2024.

### **About Creomagic Ltd.**

Creomagic develops and manufactures innovative communications solutions that form intelligent Mobile Ad-Hoc Networks (MANET), designed for mission-critical teams and tactical operations. Our radio technology provides users with reliable, secure, and resilient on-the-go communication networks for any mission. Operationally proven, our solutions serve key defense players worldwide, including tactical teams, ground robotics, maritime applications and a wide range of UAS manufacturers. Our solutions are engineered and fine-tuned by a highly experienced team, committed to the highest standards of innovation across our products and services.

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