



Creomagic to Unveil CreoAir Pro – The Next Generation of Compact Communications Solutions for Aerial Networks

Smaller, Smarter and More Powerful: With cognitive learning and enhanced computational power within a 30% smaller form factor, Creomagic is optimizing critical communication networks

Rehovot, Israel – February 17, 2025. Creomagic Ltd., a leading developer of advanced communication technologies, is set to introduce its latest generation of ultra-compact, high-performance wireless solutions at IDEX 2025 Exhibition, Abu Dhabi UAE. Designed for the demanding requirements of aerial operations, **CreoAir** advanced Software-Defined Radio (SDR) technology delivers advanced security and connectivity performance across challenging environments.

UAVs and aerial systems have become indispensable on the modern battlefield, offering significant tactical advantages but facing unique challenges. These systems require robust, long-range control and seamless interoperability with other units. Compounding this, they often operate in environments prone to interference, spectrum limitations and adversarial threats. Tactical decision-making has become increasingly dependent on real-time video and data from multiple platforms and sensors. As such, reliable, low-latency and secure communications have become critical.

Creomagic's communication solutions are tailored to meet these needs, providing robust and resilient communication solutions for aerial operations. The **CreoAir** product line includes high-performance data links with superior data rates designed for various aerial applications, from lightweight, short-range operations to full, military-standard, long-range missions. Leveraging Software-Defined Radios (SDRs) and Mobile Ad-Hoc Network (MANET) technologies, the solutions offer data rates of up to 40 Mbps, adaptive video encoding, seamless integration with diverse interfaces, and simultaneous support for multiple data sources and control of multiple platforms.

From a security point of view, **CreoAir** provides advanced COMSEC and TRANSEC features to ensure resilient, uninterrupted communication. The system incorporates continuous spectrum scanning and analysis, AES-256 encryption, sophisticated frequency hopping, and automatic interference avoidance powered by cognitive SDR and advanced waveforms. These features reduce the likelihood of interception and detection (LPI/LPD) and deliver robust protection against EW threats.

CreoAir Pro, the company's latest generation of tactical transceivers, meets the ongoing need for compact communication solutions adapted to smaller platforms, along with enhanced performance with regard to range, power, security and video transmission. The new **CreoAir Pro** merges all the advantages of its predecessors while delivering enhanced computational power and advanced algorithmic processing. **CreoAir Pro** is fully optimized for future AI-driven operations, enabling dynamic spectrum allocation, real-time decision-making and cognitive networking. Its superior performance with expanded features now comes in a more lightweight and compact form too. With this minimal form factor and maximum flexibility, the new transceiver is ideal for multi-domain systems, from tactical UAVs to advanced autonomous systems and integrated battle networks.



A notable new feature of the **CreoAir Pro** is its transition to open architecture, which enables shorter development cycles, easier integration with third-party systems, and improved customization options for end users. This framework also allows for smoother and faster software updates, enhancing interoperability and adaptability to meet the dynamic needs of the modern battlefield.

"We are very proud to introduce this latest addition to our range of innovative CreoAir transceivers," said Alex Shapochnik, CEO of Creomagic. "We believe the advanced computational technology and superior SWaP-C provides an even greater offering for our clients, especially for unmanned aerial systems, while maintaining a competitive price point. Creomagic focuses on long-term partnerships in strategic markets to meet the growing global demand for locally produced equipment. Europe remains a key priority for our marketing and sales, where we aim to establish the right partnerships for joint production, development and tailored solutions," Shapochnik concluded.

From manned and unmanned aerial networks to personal tactical radios for special forces and first responders, and unmanned ground solutions for robotics, Creomagic continues to develop advanced technologies to support the needs of its diverse client base.

Creomagic will be showcasing its full range of CreoAir solutions, including the new CreoAir Pro at:

- IDEX 2025 (Abu Dhabi, UAE, 17 - 21 February, Stand#01-B10)
- XPONENTIAL 2025 (Dusseldorf, Germany, 18-20 February, Stand# 01-A05)
- EnforceTac trade fair (Nuremberg, Germany, 24-26 February 2025, Stand# 9-658).

Visitors and delegates to either expo are welcome to contact the company in advance to arrange an in-person meeting.

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. Their radio technology provides users with reliable, secure and resilient on-the-go communication networks for any mission. Operationally proven, their solutions serve key defense players worldwide, including tactical teams, ground robotics, maritime applications and a wide range of UAS manufacturers.

Creomagic solutions are engineered and fine-tuned by a highly experienced team, committed to the highest standards of innovation across their products and services.

Contact person

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