

A New Generation of Autonomous C-UAS Systems



Two Technologies. One Mission.

The ENLOCK and OSIRIS AI consortium is creating a new architecture for autonomous counter-UAS systems that integrates detection systems, command-and-control software, onboard AI, and multiple types of interceptor platforms into a single scalable defense solution.



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Two Technologies. One Mission.

The partnership between ENLOCK and OSIRIS AI was formed around a shared understanding of how rapidly the unmanned aerial threat is evolving. The next generation of Counter-UAS systems cannot rely on a single interceptor, a single sensor, or an operator who must remain continuously connected. Effective protection requires an integrated architecture in which detection systems, command-and-control software, onboard autonomy, artificial intelligence, and multiple interceptor platforms operate as one coordinated system.

ENLOCK and OSIRIS AI approached this challenge from different directions.

ENLOCK focused directly on the interception mission — developing an autonomous Counter-UAS architecture that integrates airspace detection systems with mission-management software, ground-control infrastructure, and high-speed fixed-wing interceptors.

OSIRIS AI focused on the intelligence embedded within autonomous systems — developing a modular onboard operating system, edge-AI technologies, computer vision, target tracking, and terminal guidance for unmanned platforms.

The technologies were different. The objective was the same: to reduce the time between threat detection and successful interception, while simultaneously reducing operator workload and dependence on communication links.

This shared objective became the foundation of the ENLOCK × OSIRIS AI partnership.





ENLOCK
COUNTER-UAS SYSTEM

ENLOCK — an integrated hardware-and-software system for autonomous UAV interception



Built for automated guidance of interceptor UAVs against reconnaissance and strike drones. Operates effectively in electronic warfare (EW) environments and in GPS-denied conditions.

Technical Specifications

- Max speed: up to **270 km/h**
- Flight time: up to **40 min**
- Operational range: up to **30 km**
- Max altitude: up to **5000 m**
- Drone weight: **3.5 kg**
- Warhead weight: **930 g**
- Propulsion system: 3520 motor, **1000 KV**

Dimensions and Structure

- Overall dimensions (L×W×H): 1020×960×20 mm
- Optimized weight distribution for high-G maneuverability





OSIRIS UEB-1 Interceptor Drone

Built for structural rigidity and responsive handling during aggressive pursuit missions.

When speed defines the outcome, reaction time becomes everything. OSIRIS Interceptor is engineered to pursue and intercept fast-moving aerial targets with precision, stability, and real-time intelligence.

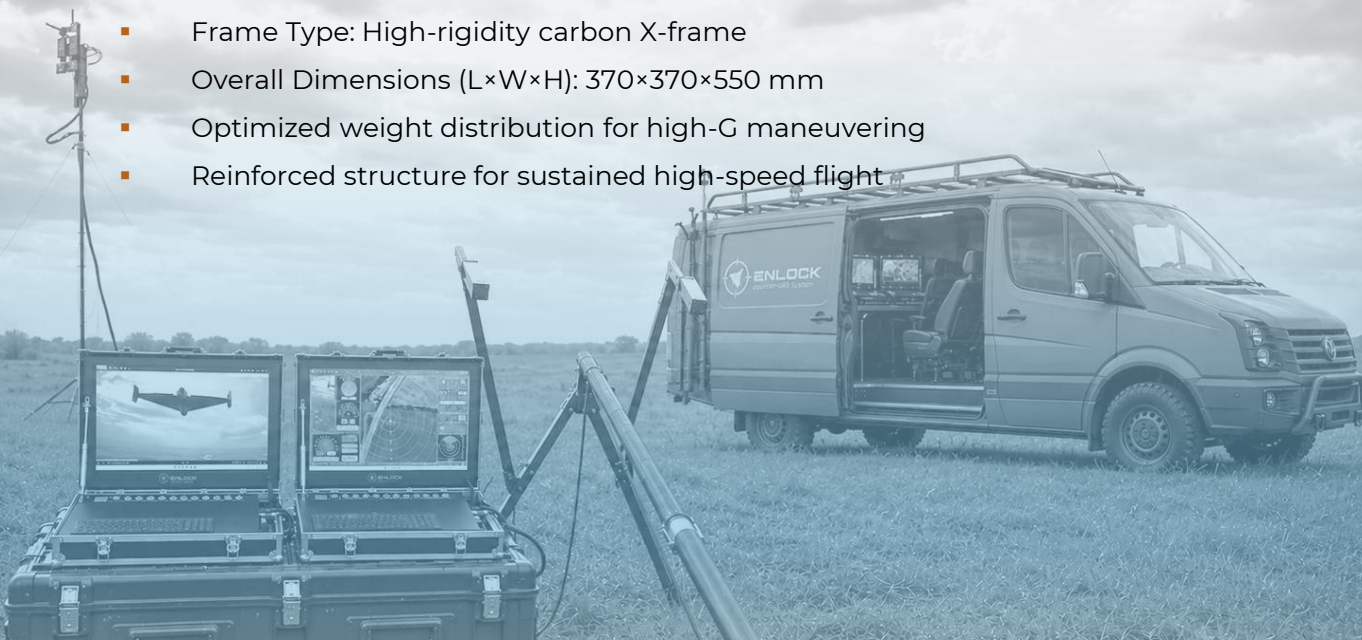
Technical Specifications

- Speed: up to **315 km/h**
- Flight Time: up to **15 minutes**
- Range: up to **30 km**
- Altitude: up to **5500 m**
- Drone Weight: **3.7 kg**
- Warhead weight: **500 g**
- Propulsion: 3115 **900 KV** high-torque motors
- Battery: **15,000 mAh** high-discharge power pack



Dimensions & Structure

- Frame Type: High-rigidity carbon X-frame
- Overall Dimensions (L×W×H): 370×370×550 mm
- Optimized weight distribution for high-G maneuvering
- Reinforced structure for sustained high-speed flight



ENLOCK-OSIRIS AI — an autonomous Counter-UAS architecture for the next generation of air defense

Detect. Decide. Intercept. Adapt.

Unmanned threats are evolving faster than traditional defense systems can respond.

ENLOCK and OSIRIS AI are developing a new generation of autonomous Counter-UAS architecture, designed to integrate detection systems, mission-management software, onboard AI, ground infrastructure, and multiple interceptor platforms into a single coordinated operational system.

This is not just another standalone drone.

It is a software-defined architecture for autonomous interception.

Two Technologies. One Mission.

ENLOCK and OSIRIS AI bring together two complementary layers of autonomous defense.

ENLOCK provides the mission and interception layer: Counter-UAS command-and-control software, automated interception calculations, radar integration, ruggedized ground control stations, and high-speed fixed-wing interceptors.

OSIRIS AI provides the onboard autonomy layer: edge AI, computer vision, target tracking, terminal guidance, autonomous mission applications, simulation, and operator training technologies.

Together, these capabilities create a seamless digital chain:

Detection → Decision → Launch → Guidance → Identification → Interception → Learning

The mission is clear: reduce the time between threat detection and successful interception, while decreasing operator workload and increasing overall system resilience.



Designed to operate in electronic warfare environments

Electronic warfare, GNSS degradation, unstable communications, and rapidly evolving UAV tactics are no longer exceptions.

This is the operational environment.

The ENLOCK × OSIRIS AI architecture is designed to maintain mission continuity in environments with limited communications, unreliable satellite navigation, and the need for faster operator decision support.

The operator remains in the command loop.

The software accelerates mission execution.

Autonomy enhances system resilience.

One Architecture. Multiple Interceptors.

Different threats require different effectors.

Long-range strike UAVs, reconnaissance platforms, FPV drones, and high-speed tactical threats have different speeds, flight profiles, and interception requirements.

That is why ENLOCK × OSIRIS AI is being developed as an open, multi-effector Counter-UAS platform.

The architecture can integrate different sensors, interceptor types, payloads, and autonomous software modules within a single operational environment.

This is not a closed drone ecosystem.

It is a scalable autonomous interception platform.



Developed in Ukraine. Engineered for global scale.

Ukraine is one of the world's most demanding environments for autonomous defense technologies.

Real-world operational feedback, electronic warfare conditions, degraded communications, and constantly evolving unmanned threats accelerate development cycles in ways no laboratory can replicate.

ENLOCK and OSIRIS AI are transforming this experience into systems capable of supporting allied defense architectures, critical infrastructure protection, and next-generation Counter-UAS operations worldwide.



Strategic Focus: United States

The United States is a strategic priority for the ENLOCK × OSIRIS AI partnership. The long-term vision is not limited to exporting Counter-UAS technology developed in Ukraine, but to integrating it into the U.S. defense-industrial ecosystem. The partnership is positioned to collaborate with U.S. technology companies, sensor manufacturers, interceptor developers, system integrators, and leading defense contractors through:

- integration with U.S.-made radars and sensor systems;
- compatibility with U.S. unmanned platforms;
- localized manufacturing and assembly;
- joint testing and demonstration programs;
- Counter-UAS configurations tailored to U.S. operational requirements.

The result: Ukrainian innovation forged in real-world combat conditions, combined with U.S. manufacturing scale, systems integration, and global market access.

From an Interceptor Drone to a Counter-UAS Platform

ENLOCK × OSIRIS AI is building more than interceptors.

We are building a software-defined Counter-UAS platform in which new sensors, interceptors, and AI capabilities can be integrated, deployed, and continuously improved.

A platform that learns from operational data

A platform that adapts as threats evolve

A platform built for the future of autonomous defense

ENLOCK × OSIRIS AI combines mission intelligence on the ground with autonomous intelligence in the air.

The result is a scalable architecture for faster, smarter, and more resilient Counter-UAS operations.

Detection → Decision → Launch → Guidance → Identification → Interception → Learning

**Autonomous Defense
Developed in Ukraine
Engineered for global scale**

