

ARCTIC OWL



Watch. Listen. Understand.

Edge-AI Detection Mesh

Arctic OWL is a distributed, edge-AI sensing network designed for power and connectivity-constrained environments, delivering persistent spatial awareness in remote and austere conditions without relying on existing infrastructure. Built for Arctic conditions and proven in harsh environments, it delivers scalable, off-grid monitoring for temporary or long-term deployments, critical zones, and wide-area coverage.

Key Capabilities:

DISTRIBUTED MESH ARCHITECTURE:

Autonomous nodes self-coordinate and share data to expand coverage and detection accuracy.

MULTI-DOMAIN DETECTION:

Detects and classifies drones, aircraft, ground vehicles, vessels, and sub-surface threats.

MULTI-MODAL SENSING:

Integrated acoustic, RF, machine vision, and underwater sensing.

NATO SUPPLY CHAIN FOR SCALE:

Produced quickly at scale on domestic supply chains not at risk in conflict.

OFF-GRID OPERATION:

Designed for long-duration deployment without reliance on existing infrastructure.

Why Arctic Owl

- Secure, domestically-aligned supply chain
- Built for scale
- Low power, long endurance
- Built for any environment
- Multinode detection with a certainty rating
- Dual-use technology for environmental sensing

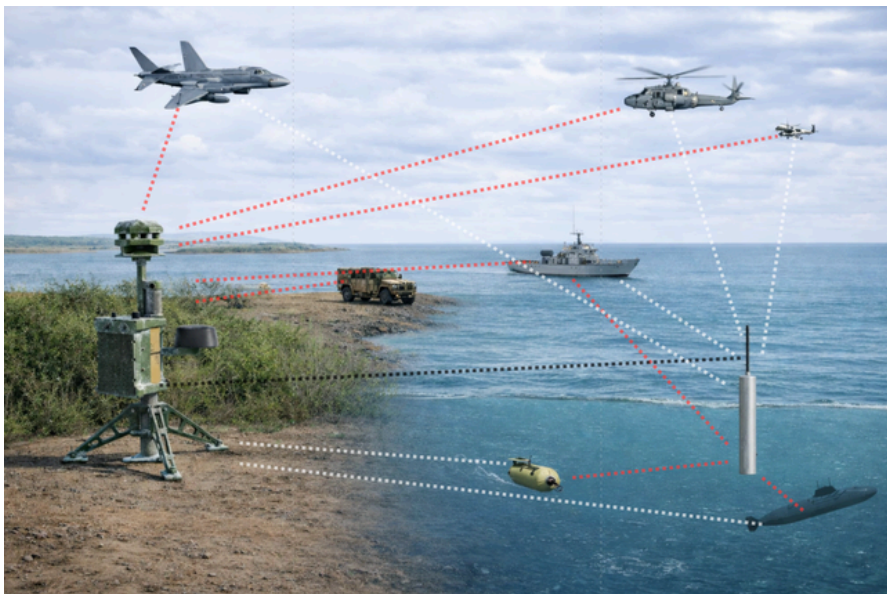
Ready to bring the Arctic OWL to your theatre of operations?

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How It Works:

Arctic OWL deploys as a distributed network of intelligent nodes that autonomously sense, process, and share data to create real-time situational awareness.

- **Deploy and Network:** Nodes are positioned across the area of interest and automatically form a self-coordinating mesh network without fixed infrastructure.
- **Sense Across Domains:** Each node collects data using integrated acoustic, RF, machine vision, and underwater sensors.
- **Process at the Edge:** Embedded AI enables real-time detection and classification directly at each node.
- **Share and Correlate Data:** Nodes exchange and fuse data across the network to improve accuracy and reduce false positives.
- **Scale and Operate Off-Grid:** The system expands with additional nodes and operates continuously in remote, power and connectivity-constrained environments



Let's build something great.

Reach out to discuss your product or project goals.

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