



Automated Target Recognition

The Automated Target Recognition (ATR) system is an AI-driven EO/IR engine for UAVs that provides real-time maritime surveillance and recognition of ships, USVs, and small craft. Using a Sense → Detect → Classify → Track → Target workflow, it detects, classifies, and tracks targets in sea clutter or low visibility, streaming data to operational centers.

The edge-ready system runs fully onboard, delivering sub-200 ms recognition loops and >90% precision. Powered by the computer vision (CV), ATR combines speed, accuracy, and efficiency for operational use.

KEY FEATURES

01

Delivers AI-powered target recognition that detects, classifies, and tracks targets (e.g. vehicles, vessels) in real time from UAVs or edge devices.

02

Available as either a model training service for customer-owned algorithms or a fully integrated ATR system with onboard processing.

03

Provides sub-200 ms recognition and >90% accuracy, giving operators fast, reliable situational awareness in any environment.

THE BY LIGHT ADVANTAGE

By Light's innovative technical solutions deliver secure performance with integration and scalability aligned with DoD priorities and standards to maximize readiness, survivability, and efficiency.

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