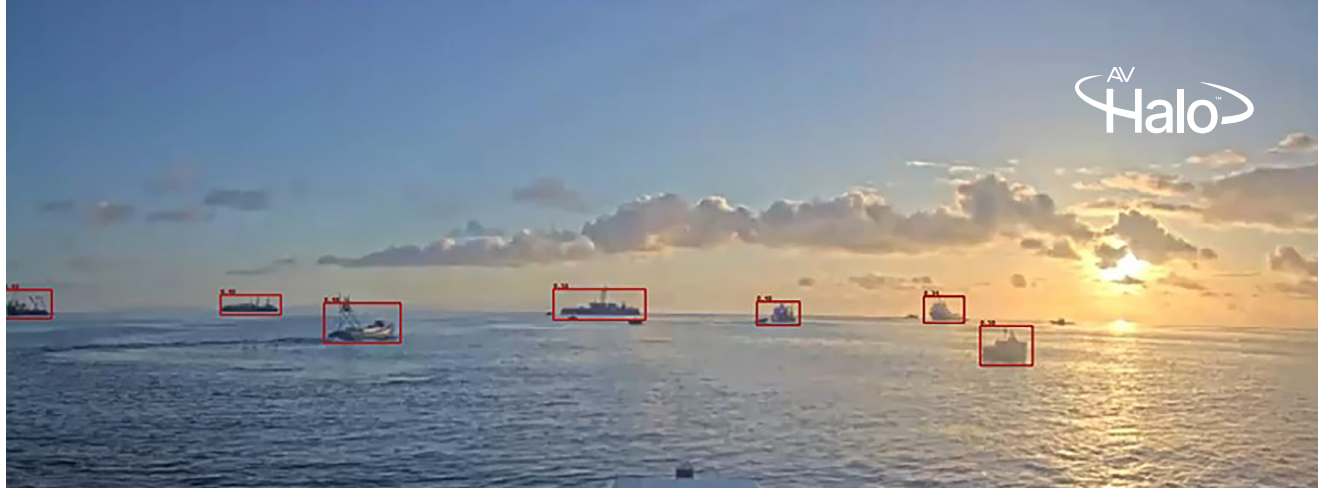


AV_Halo™ VISION

ONBOARD COMPUTER VISION FOR AUTONOMOUS TARGETING



AV_Halo VISION delivers real-time visual processing and Intelligence, Surveillance, and Reconnaissance (ISR) capabilities directly on-platform—even in GPS-denied or comms-degraded environments.

Enhanced by multi-target tracking from AV_Halo COMMAND, it provides persistent, autonomous, targeting. VISION combines AV's SPOTR-Edge™ computer vision with the WISARD™ AI/ML engine to fuse and process data in real time.

_Scalable Capabilities

- › Day/Night EO/IR Detection and Classification: AV_Halo VISION's advanced computer vision software detects and classifies objects in all lighting conditions, providing real-time situational awareness.
- › Localization and Tracking of Fast-Moving and Low-Signature Objects: Our platform accurately tracks targets in complex environments, even when they are moving at high speeds or hidden from radar.
- › Minimum-Latency Inference at the Edge: AV_Halo VISION's edge compute capabilities enable rapid AI inference, ensuring that decisions are made with minimal delay.
- › Enhanced Situational Awareness: AV_Halo VISION provides real-time visual processing and ISR capabilities, enhancing situational awareness and decision-making.

_Benefits

- › Multi-Target Tracking: The system integrates fused multi-target tracking from AV's C2 core, providing persistent, autonomous targeting capabilities.
- › Edge Compute for AI Perception Models: AV_Halo VISION features edge compute for AI perception models and mission applications, ensuring optimal performance in resource-constrained environments.
- › Seamless Integration with ISR Sensors and Autonomy Stack: The system is designed to seamlessly integrate with existing ISR sensors and autonomy stacks, reducing integration costs and increasing overall efficiency.
- › Superior Autonomous Targeting: AV_Halo VISION delivers persistent, autonomous targeting capabilities in GPS-denied or comms-degraded environments.

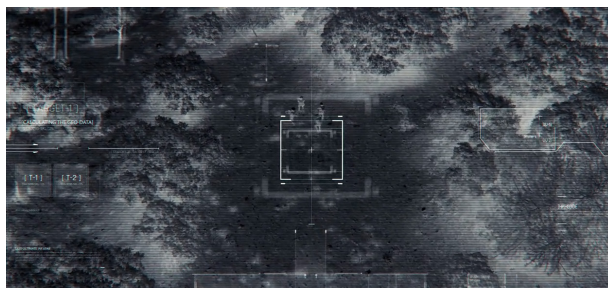


FIGURE 1: HUMAN TARGET TRACKING INTERFACE

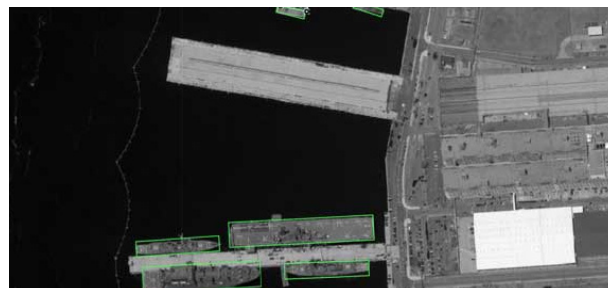


FIGURE 2: LOCALIZATION AND TRACKING

