L3HARRIS
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UAS TRACER

Unmanned Aerial System (UAS) Threat Recognition and Counter Enabler (TRACER)

UAS TRACER is designed to perform object detection of a UAS using raw inputs from single or multiple distributed EO/IR sensors. The included track aggregation capability fuses target data from additional, distributed tracking systems from various sources, including but not limited to, EO/IR, radar, RF, and acoustic systems.

The combined detect and track capabilities have been developed in order to provide situational awareness, target acquisition, recognition, and ranging of a wide variety of UAS. The sensor-agnostic track aggregating system delivers UAS target state estimation (TSE) to other tiers in an overall CUAS solution.

UAS TRACER is capable of interfacing with other TSE tiers, such a Score Management System (SMS) to enable UAS engagement. It provides an optional remote GUI for operator control and data display. When connected to an L3Harris MX-Series turret, the system offers the capability for Closed-Loop...

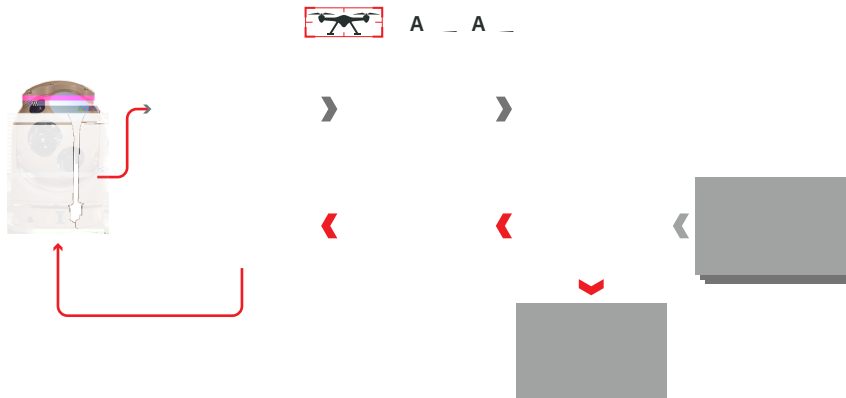### Software-defined, modular, open architecture track aggregating CUAS capability that includes:

> An EO/IR compute capability for image processing, detection and tracking of UAS

> Track aggregation to ingest target tracks from various sources, e.g., radar, RF and acoustic sensors, resulting in TSE

> Pointing and Command & Control (C2) for steerable EO/IR sensors

TYPES OF DETECTORS

> Edge Detection

> Motion Detection

> AI/ML Detection

> Pixel Intensity Detection

TYPES OF TRACKERS AND AGGREGATION

> Relative Motion Tracking

> Unscented Kalman Filtering

> Fusion Tracking

> Rate Deflect Tracking

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