



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 detection and track capabilities have been developed in order to provide a functional airborne, large acquisition, recognition, and ranging of a wide variety of UAS. The sensoragnostic track aggregating capability enables UAS target detection and identification (TSE) of other UAS in an overall CUAS solution.

UAS TRACER is capable of interfacing with other TSE sensors, such as Store 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 processor, the system offers the capability for Closed-Loop (C2) for steerable EO/IR sensors.



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

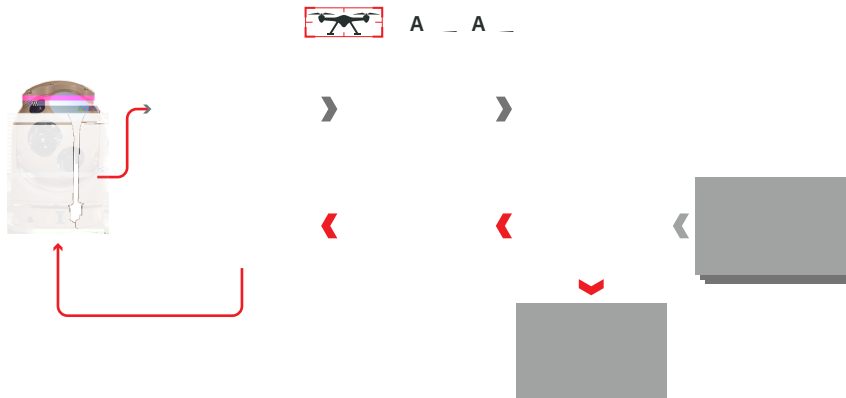
- > An EO/IR compute capability for image processing, detection and tracking of UAS
- > Track aggregation to ingest target tracks from various sources, e.g., radar, RF and acoustic sensors, resulting in TSE
- > Pointing and Command & Control (C2) for steerable EO/IR sensors

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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