

## WIDE-AREA MOTION IMAGERY INTELLIGENCE

### Providing context to signals intelligence

Wide-area Motion Imagery (WAMI) provides more information for analysts to see what's happening, in real time, to help understand a surveillance situation and its complexities. The motion imagery intelligence adds context to signals intelligence by creating a visual picture of the surveillance situation.

#### SEE THE BIG PICTURE

Intelligence, security and law enforcement operations need real-time situational awareness. WAMI provides context or visual representation of the data collected on a multi-intelligence (multi-INT) surveillance platform by tracking the entire scene as events unfold. This gives analysts a better view of what is happening.

From signal intelligence and hyperspectral imaging to full-motion video and tactical radar, WAMI makes sense of the data for persistent, seamless, multi-INT airborne surveillance.

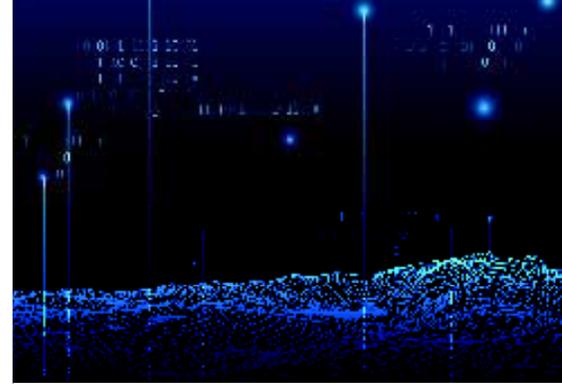
#### AN INTEGRAL PART OF SURVEILLANCE

From the air, WAMI sensors collect visible motion intelligence, quickly remove the unnecessary data and feed the important

information to analysts to keep a surveillance program on target.

Fully integrated with multi-INT surveillance systems, WAMI detects movement within a coverage area and provides tipping and cross-cueing to other airborne and ground-based sensors. As other sensors collect data, those inputs can be used to correlate another area of interest or make use of cross-cueing that activates a full-motion video sensor for more detailed actionable intelligence.

With the ability to capture and store comprehensive image activity, WAMI provides the opportunity to analyze historical patterns of life and can play back data from an event while still capturing real-time data.



#### AUTOMATED TRACKING AND ADVANCED ANALYTICS FOR CONTINUOUS SITUATIONAL AWARENESS

- > Day and night capability over a city-size area
- > True multi-intelligence surveillance with the ability to seamlessly integrate and cross-cue with other sensor phenomenologies
- > Improved use of surveillance resources with automated tools and area-of-interest views streamed simultaneously
- > Ability to integrate on multiple platforms to support a variety of missions, such as military operations, border protection initiatives, event and critical infrastructure security, and disaster response



## CAPABILITIES AND MISSIONS

L3Harris' WAMI capabilities improve the real-time situational awareness during a surveillance mission. Our onboard processing and downlink capabilities speed up the time between data collection and the analysts' dashboard. With WAMI, areas of interest are streamed from the aircraft to the ground station in a standard format that can be viewed by multiple analysts with any full-motion video player.

The wide-area coverage and persistence of L3Harris' WAMI allows analysts to see events that are happening concurrently and establish interconnected patterns of life, including social interactions, destinations and origins of travel. Collecting WAMI data over time allows analysts to collect valuable intelligence for both tactical and strategic planning. The intelligence helps analysts:

- > Observe vehicle tracks and traffic
- > Study patterns of life
- > Identify nodes of activity
- > Identify anomalous behavior
- > Use patterns and trends to anticipate behavior

## TRACKING

Real-time, onboard tracking enables more advanced features like virtual watch boxes and trip wires. L3Harris motion analytics identify triggers, like a moving target crossing a virtual line into a danger zone, or that an event has occurred. The WAMI sensor will be tasked immediately to begin tracking motion around that occurrence to give analysts information about what is happening.

More advanced motion analytics include the detection of specific track types (right turn, left turn, stop, start, U-turn), abnormal speed, checkpoint avoidance, vehicles meeting in unexpected locations, or convoys involving multiple vehicles.

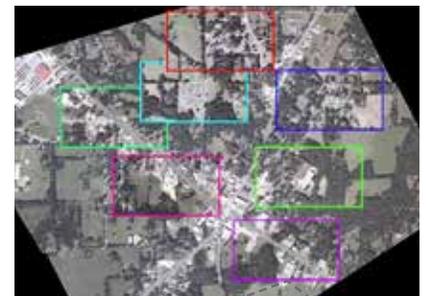
## MULTI-INTELLIGENCE CROSS-CUEING

L3Harris WAMI capabilities include integration with other sensor modalities to broaden the scope of a surveillance program. By designing an interconnected sensor network, L3Harris is automating notifications between sensors. One sensor might tip off another sensor to indicate that a condition has been met or a target has been identified, so it can begin monitoring.

An example of an integrated surveillance system includes a signals intelligence sensor tipping off WAMI to begin tracking a target, and WAMI might in turn queue a full-motion video sensor for detailed video surveillance once the target has reached a location the full-motion video sensor is nearby. A hyperspectral sensor could also be tipped off by WAMI to further investigate a location of interest for materials identification.

## FACTS

- > Real-time streaming for live view or playback review increases information reliability for better situation understanding
- > Data can be viewed on nearly any device and streamed to multiple users
- > Multiple areas of interest can be tracked to give analysts a better understanding of the motion of objects



### Wide-area Motion Imagery Intelligence

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1025 W. NASA Boulevard  
Melbourne, FL 32919