



MicroWAMI

Compact Wide Area Motion Imager
Solution for Tactical and HLS Missions
ELS-8995



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MicroWAMI (ELS-8995) is an advanced, lightweight Wide Area Motion Imagery (WAMI) solution that delivers tactical situational awareness to military, security, law enforcement and emergency response agencies. Operating both in day and night time (LWIR), MicroWAMI tiles real-time images with step-and-stare to form a continually-updated mosaic - covering a wide geographic area at high-resolution. The onboard computer (SITS) employs a highly developed anomaly detection engine together with video analytics tools. This enables the operator to simultaneously monitor a large number of targets while only focusing on objects of interest.

A highly cost-effective solution, MicroWAMI exhibits unique low SWaP with less than 1kg of weight and minimal power consumption. It is easily installed on small tactical platforms such as drones, tethered drones, aerostats and UAVs. The system is easy to set up and operate, and is ready to launch within minutes. It utilizes commercial communication protocols, and the Command and Control (C2) can be installed on a rugged tablet or laptop computer.

KEY FEATURES

- Real-time Optic Motion Target Imagery (OMTI) – tracks movements over a wide area of interest
- Automatic Target Recognition (ATR) by AI
- Time-machine playback for post-event forensic investigation
- Automatic alerts and predictive analysis based on a dynamic rule engine and AI
- Smart utilization of the onboard datalink, e.g. for real-time monitoring of an area of interest in full resolution

Operation Mode	Low	Tactical	High
Flight Altitude (m)	250	500	1,000
Ground Coverage Area (IR) (Km x Km)	0.25 x 0.25	0.5 x 0.5	1 x 1
Resolution (IR) (cm/pixel)	12.5	25	50
Ground Coverage Area (VIS) (Km x Km)	0.5 x 0.5	1 x 1	2 x 2
Resolution (VIS) (cm/pixel)	4.5	9	18

SPECIFICATIONS

Descriptions	Parameters
Cameras	Visible and LWIR (uncooled)
Scan Mode	Step and stare technology. Programmable scan rate and pattern.
Physical Characteristics	
Dimensions (Sensor/Server)	D: 70mm x H: 125mm / W140mm x L105mm x H45mm
Weight (Sensor/Server)	420g / 500g



MicroWami installed on drone



Sensor Unit



SITS - Server in the Sky



Ground Station

