



ELM-2054

Lightweight SAR/ GMTI Radar

The ELM-2054 is a lightweight, all-weather Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) for Small Tactical UAVs (STUAV), Vertical Take-Off and Landing (VTOL) UAVs, ultra-light reconnaissance aircraft, tactical aerostats, and other compact airborne platforms.

Exceptional performance with low SWaP (Size, Weight, and Power) parameters, the SAR/GMTI radar provides a highly effective solution for air-to-surface ISTAR applications.

MISSIONS

- Surveillance
- Bomb Detection Assessment
- Target Acquisition
- Border Protection
- Critical Infrastructure Security
- Anti-Terror Warfare
- Counter Narcotics/Smuggling Prevention
- Disaster Area Monitoring
- Maritime/Littoral Search & Classification

FEATURES

ONBOARD PROCESSING OF SAR IMAGES

Requires low downlink data rate

REAL-TIME SAR IMAGERY

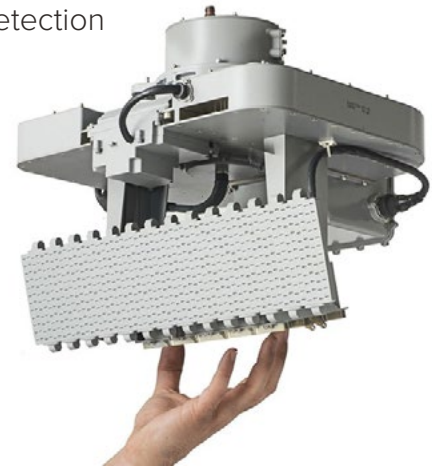
Wide Area Search (WAS) by Strip SAR capable of vehicle-target detection
Very high-resolution Spot SAR for stationary target classification

HIGH PERFORMANCE GMTI CAPABILITIES

Persistent surveillance up to 12 miles (20 km)
Detects and tracks targets of different sizes and velocities

IMAGERY & GMTI ADVANTAGE

Automatic and computer aided target detection and tracking
Cross-cueing to/from EO/IR and SIGINT sensors



SPECIFICATIONS

Ranges	up to 12 miles (SAR/GMTI modes)
SAR Strip Area Collection Rate	up to 290 square miles/hour
Weight	17-22 lbs
Power	<200 Watt @ 28 VDC
Radar Interface	fast Ethernet (other formats optional)

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Updated 04/16/21

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