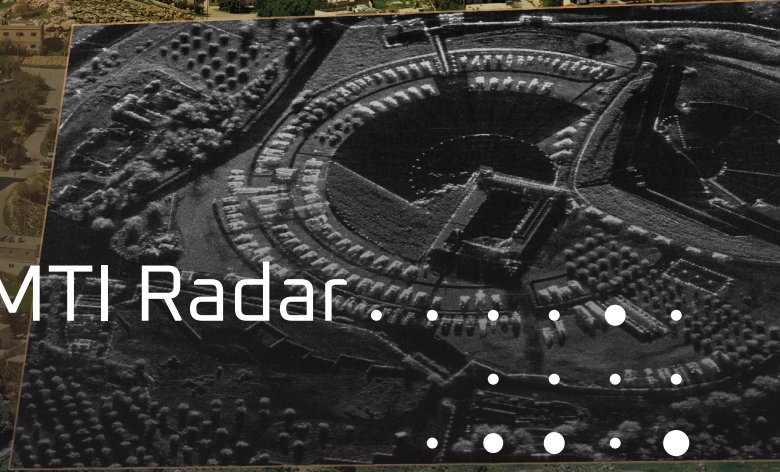




Lightweight SAR/GMTI Radar

ELM-2054



Lightweight SAR/GMTI Radar

ELM-2054

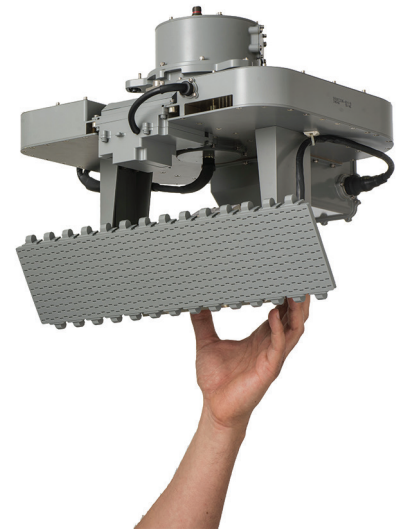
ELM-2054 is a lightweight, all-weather SAR/GMTI radar for Small Tactical UAVs (STUAV), tactical VTOL UAV's, ultra-light reconnaissance aircraft, tactical aerostats, and other compact airborne platforms. Employing the latest technologies to achieve exceptional performance while adhering to very low SWaP (Size, Weight, and Power) parameters, the SAR/GMTI radar provides a highly effective solution for air-to-surface ISTAR applications.

Missions

- Surveillance, BDA (Bomb Damage Assessment) & target acquisition
- Protection of borderlines and key-facilities
- Anti-terror warfare
- Counter narcotics and smuggling prevention
- Monitor disaster areas
- Maritime/littoral search and classification

Features

- Performs onboard processing of SAR images – low downlink data rate required
- Delivers real-time SAR Imagery for:
 - Wide Area Search (WAS) by Strip SAR at a resolution adequate for vehicle-target detection
 - Very high-resolution Spot SAR for stationary target classification
- High performance GMTI capabilities:
 - Persistent surveillance over tens of km² area
 - Detects and tracks targets of different sizes and velocities
- Imagery & GMTI Exploitation
 - Automatic and computer aided target detection and tracking
 - Automatic change detection
 - Cross-cueing to/from EO/IR and SIGINT sensors



Characteristics & Specifications

Description	Parameters
Ranges	up to 20 km (SAR/GMTI modes)
SAR Strip area collection rate	up to 750 km ² /hour
Weight	8-10 Kg
Power	< 200 Watt @ 28 Vdc
Radar interfaces	fast Ethernet (other formats optional)

