

MULTI-MISSION RADAR FAMILY

ELM-2084 MMR



Creating a Difference



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IAI ELTA's ELM-2084 is a mobile S-Band Multi-Mission Radar (MMR) Family featuring an advanced 3D Active Electronically Steered Array (AESA) for Air Defense and Artillery Weapon Location (WLR) Missions. In the Air Defense mode the radar detects and classifies all types of airborne targets and generates a real-time Air Situation Picture (ASP). The Artillery mode detects incoming mortars, artillery shells and, missiles - providing hostile weapon firing location as well as real-time calculation of impact point and friendly fire ranging. In addition, the Fire Control Radar (FCR) functionality enables control via uplink to anti-missile interception systems and Surface-to-Air (SAM) missile systems.

Features

- 3D Multi-beam Operation by Active Electronically Steered Array (AESA)
- Dual Operation Modes:
 - WLR: Sector of up to 120° or rotating
 - Air Defense: Sector or rotating up to 30RPM for fast update rate
- Scalable to several sizes / configurations
- High Mobility and Fast Deployment
- Air Transportable (by C-130)
- Remote Operation
- Integrated Network Operations
- Advanced ECCM Capabilities
- Advanced Signal Processing for:
 - Operation in Dense Environments
 - Classification and Identification of Targets
 - Superior Low Altitude Operations
- Graceful Degradation and Very High Availability



Modular and Scalable Configurations

Specifications

	Air Surveillance	Weapon Location
Detection Range	Up to 256 nm	Up to 100 km
Azimuth Coverage	120° or rotating 360°	120°
Elevation Coverage	Up to 50° & 100 kft	Up to 50°
Accuracy	High accuracy 3D measurement	0.3% CEP
Target Capacity	Up to 1100 targets	200 targets/min

* Actual figures depend on radar size/configuration