



MS-MMR

Multi-Sensor Multi Mission
Radar System
ELM-2084 MMR



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Multi-Sensor Multi Mission Radar System

The MMR (ELM-2084) is a mobile S-Band radar featuring an advanced 4D Active Electronically Steered Array (AESA) for Air Defense, Surveillance and Artillery Weapon Location (WLR) missions. The MMR is the radar sensor of the "Iron Dome", "David's Sling" and "Barak" systems operational and combat proven in Israel and also provides air defense capabilities to other countries around the world. The extended Multi-Sensor MMR (MSMMR) version integrates active and passive sensors thereby delivering higher quality Air Situation Picture (ASP) and weapons support under target saturated, background clutter and severe environmental conditions.

The MS-MMR is a single-platform system using multiband sensing, multi spectral sensor suite including an additional higher band radar, IFF, SIGINT, EO/IR, and Launch Detection Sensors (LDS) - providing enhanced detection, classification, identification and tracking of all aerial threats. The system performs cross queuing between the passive and active sensors thereby improving overall performance.

MS-MMR SENSORS

MMR S-Band	High Band radar	EO/IR	LDS	SIGINT
Rotating or Sector Mode	4D, Multi-beam AESA	Thermal Imaging (TI), SWIR, color day camera, Visual recognition	EO/SWIR launch detection	Early Warning
High update rate	High resolution High accuracy	Passive tracking	360° coverage	Automatic classification, identification and target discrimination
Sector of up to 120°	Detects and tracks low, slow & small targets	Kill assessment	Target classification	Analyzing signals over a wide frequency range
Advanced ECCM capabilities	Compliments coverage in sector mode		Passive detection	High Sensitivity-long range detection
Scalable to different sizes/configurations				

SYSTEM BENEFITS

- High Quality Recognized Air Picture (RAP)
- Improved classification, identification and target discrimination
- Enhanced survivability and redundancy
- Support of Kill Chain and Kill Assessment
- Extended self-protection capabilities
- Robust and modular solution for dynamic scenarios and missions

