

RADA



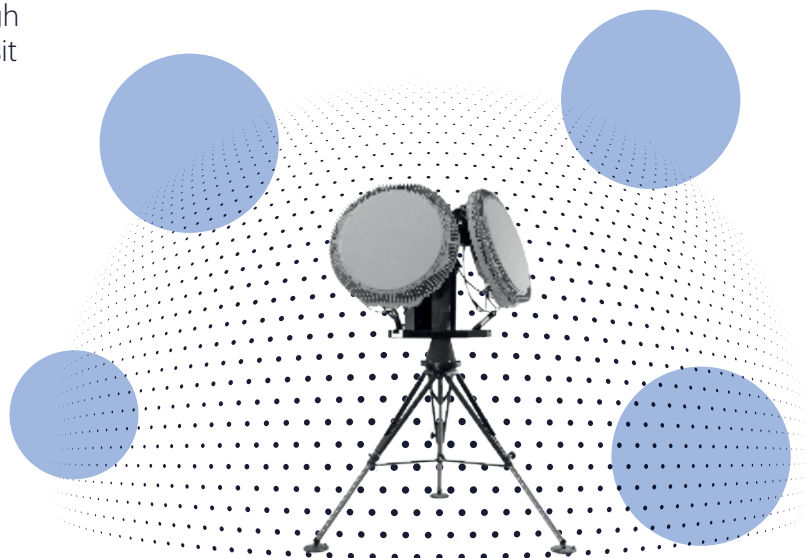
ieMHR®

improved & enhanced Multi-Mission Hemispheric Radar

The ieMHR is a cutting edge software defined, multi-mission, 4D AESA pulse Doppler radar platform that can host a variety of operational missions. The ieMHR offers a superior SWaP-C and On-The-Move operation to the maneuver force, providing best of breed radar sensor for air defense and active defense solutions.

ieMHR Main Advantages:

- Combat proven, TRL-9, at the heart of mobile C-RAM/SHORAD/C-UAS operational systems
- Superior performance against low signature targets (RCS, Velocity, Altitude)
- Multi-Mission – “one radar does it all”
- Automated operation through advanced signal processing and algorithms
- Complete Dynamic Air Situational Picture (ASP) while mounted on a tactical vehicle or vessel
- Handles hundreds of targets through Track While Search (TWS) and Revisit modes
- In-depth analysis of Doppler and other target features – 4D
- Advanced clutter and multipath handling techniques
- SWaP-C superiority, unprecedented affordability



RADA's MHR supports a variety of On-The-Move and stationary operational missions:

- Counter-Unmanned Aircraft System (C-UAS) & Short-Range Air Defense (SHORAD), handles all types of aerial threats including class-1 micro-drones
- Counter Rocket, Artillery, Mortar (C-RAM) and Sense & Warn, both indirect and low-QE fire; Point-of-Origin (POO) and Point-of-Impact (POI) determination
- Volumetric perimeter surveillance, simultaneous detection and tracking of aerial and ground intruders

ieMHR OPERATIONAL MISSIONS	NOMENCLATURE
C-UAS, SHORAD	RPS-82
C-RAM, Sense & Warn	RPS-80 / RPS-81
Volumetric Perimeter Surveillance	RPS-84

Key Characteristics

- Active Electronically Scanned Array (AESA) antenna, GaN amplifiers
- Software-defined, digital, with adaptive beam forming
- Hemispheric search and track when four radars are employed as a system
- Extremely fast volume coverage
- Wide range of threat velocities
- Standard and common interfaces
- Electronic Counter Countermeasures (ECCM)

Typical Installations



Specifications

Spatial Coverage	Single radar: 90° Az, 90° El Four radars installation: Full hemisphere
Interfaces	Ethernet, I/O Discrete, RS-422, RS-232
Interface Protocols	FAAD, ASTERIX, Customer-tailored
Input Power	28 VDC (per MIL-STD-1275E) /110/220 VAC
Power Consumption	790 W average
Dimensions	79 cm
Weight	58 kg
Operation Temperatures	-40° to +55° C
Cooling Method	Passive only

Maximum Detection Ranges

THREAT	RANGE
Nano UAV	10 Km
Medium-Size UAV	45 Km
Heavy Transport Aircraft	165 Km
Fighter	65 Km
Fighter- Low RCS	35 Km
Utility Helicopter	45 Km
Light/Medium Mortar / Short Range Rocket	10 Km
Heavy Mortar	12 Km
Direct-Attack Rocket / Missile	14 Km
Pedestrians	20 Km
Vehicles & Medium Size Vessel	45 Km
Large Vessel	80 Km



Front View



Rear View



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WE MAKE SENSE

