RADAUSA

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- Designs and manufactures All-Threat radars supporting the Warfighter.
- Pulse-Doppler, multi-mission, AESA (phased array antenna) technologies provide advanced capability in a tactical radar.
- USA Subsidiary of Israeli RADA Electronic Industries that was founded in 1970. RADA Electronics Industries has traded on NASDAQ since 1985.
- Established in December 2017
- Foreign Ownership, Control, or Influence (FOCI) mitigated to operate under an SSA (special security agreement) – complete transition of technology to US



Current Product Lines

RADA USA

advanced Compact Hemispheric Radar (aCHR[®])



enhanced Compact Hemispheric Radar (eCHR®)



Multi-Mission Hemispheric Radar (MHR®)



 Improved & Enhanced Multi-Mission Hemispheric Radar (ieMHR [®])



 extended Multi-Mission Hemispheric Radar (xMHR [®])

Key Characteristics

RADA USA

- 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)

Main Advantages

- Combat proven, TRL-9, at the heart of mobile 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
- SWaP-C superiority, unprecedented affordability

Specifications



RADA Multi-Mission Software-Defined AESA Radar Product Family	aCHR	eCHR	MHR	ieMHR	exMHR	nMHR			
Mission	APS, C-UAS	C-UAS, C- RAM, VSHORAD	C-UAS, C- RAM, SHORAD	C-UAS, C- RAM, SHORAD	Fire Control, C-UAS, C- RAM, SHORAD	Fire Control, C-UAS, C- RAM, SHORAD			
Frequency		X-Band							
Spatial Coverage	Radar: 90° Az, 90° El; Four radars installation: Full hemisphere								
Interface Protocols	-	AD, ASTERIX, er Tailored	MAPS, FAAD, MEDUSA, ASTERIX, Customer Tailored						
Operation Temperatures	-40° - +55° C								
Input Power	28 V (per MIL-STD-1275E)/110/220 VAC								
Size	H: 11.6 in; W: 18.3 in; Depth: 7.4 in	H: 13,3 in; W: 21.1 in; Depth: 8.6 in	Diameter: 19.7 in; Depth: 7.9 in	Diameter: 31.3 in; Depth: 9.1 in	H: 39.4 in; W: 39.4 in; Depth: 11.8 in	H: 24.8 in; W: 18.1 in; Depth: 5.9 in			
Weight	75 lbs.	53 lbs.	64 lbs.	128 lbs.	243 lbs.	88 lbs.			

Maximum Detection Ranges

RADA USA

	aCHR	eCHR	MHR	ieMHR	xMHR		
THREAT		RANGE (Km)					
Direct - Attack Rocket Missile	4			14	24		
Nano UAV	3		5	10	18		
Medium - Size UAV	15		25	45	80		
Heavy Transport Aircraft	raft		60	165	200		
Fighter	22		35	65	110		
Fighter - Low RCS			20	35	60		
Utility Helicopter	15		25	45	80		
Light / Medium Mortar / Short Range Rocket				10	18		
Heavy Mortar				12	20		
Soldiers / Pedestrians		7		20			
Vehicles / Medium Size Vessel	1	.5	25	45	80		
Large Vessel				80	130		

U.S. Army



U.S. Marine Corps



• U.S. Air Force



U.S. Navy



U.S. Special Operations Command



U.S. Coast Guard



Current Programs

RADA USA





COUNTER UNMANNED AERIAL SYSTEM (C-UAS)

- USMC PEO LS, PM GBAD
 - MADIS / LMADIS



MHR /ieMHR (Multi-Mission Hemispheric Radar)





ACTIVE PROTECTION SYSTEM (APS)

• Iron First (APS) for M2 Bradley



CHR (Compact Hemispheric Radar)

US Army – PEO Missiles and Space – PM SHIELD - SHORT-RANGE AIR DEFENSE (SHORAD)

- SHORAD mission: dedicated air defense artillery (ADA) and non-dedicated air defense capabilities that enable movement and maneuver by destroying, neutralizing or deterring low altitude air threats to defend critical fixed and semi-fixed assets and maneuver forces.
- Current US Army Directed Requirement for an Initial Maneuver Short-Range Air Defense (IM-SHORAD)
 addresses the urgent need to support Operation Atlantic Resolve to provide air and missile defense
 protection of Stryker and Armored Brigade Combat Teams.
- The RADA radar is the prime sensor to detect and track air threats (traditional and unmanned) and capability to engage a range of ground targets





Multi-Mission Hemispheric Radar (MHR)

RADA USA WE MAKE SENSE

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