

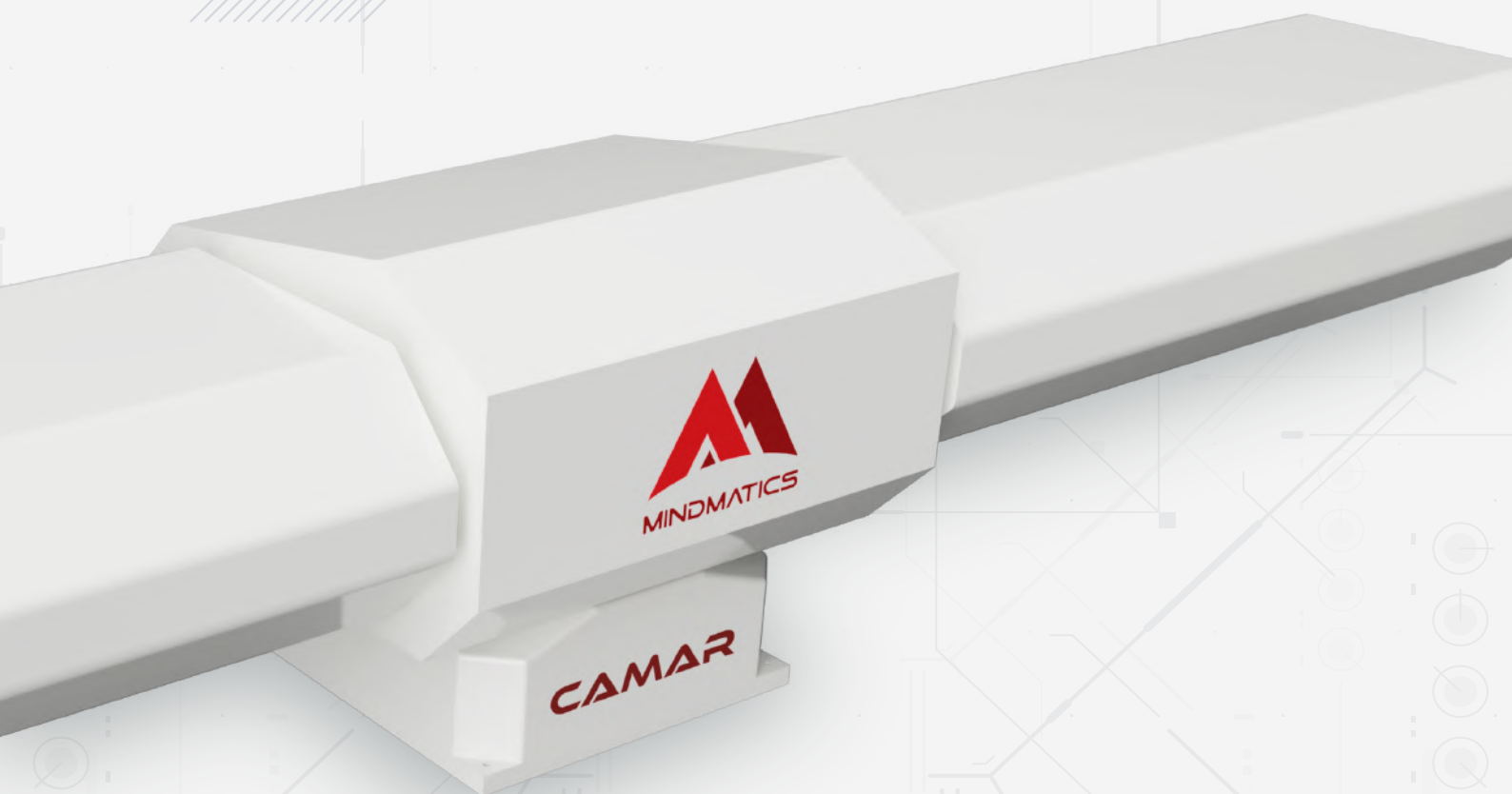


CAMAR

COASTAL SURVEILLANCE RADAR

Guarding Shores, Securing Horizons

CAMAR, a coastal surveillance radar, stands as a meticulously engineered solution to serve a multitude of purposes across various domains. Its design is characterized by robustness, scalability, and adaptability, ensuring its efficacy across different scenarios and environments. At its core lies a multi-layered architecture with FMCW technology approach that provides unparalleled versatility and effectiveness, allowing it to seamlessly integrate into diverse operational frameworks.



Key Features



GUI-Enabled Status Acquisition and Control



Automatic Measurement of Coordinates



Database Storage for Future Comparisons



Digitalization of Analog Radar Signals



Simple installation, single power, and network cable connection



Multi-Sensor Integration for a comprehensive and multi-sensor approach to target tracking and identification



Long Duration Operation



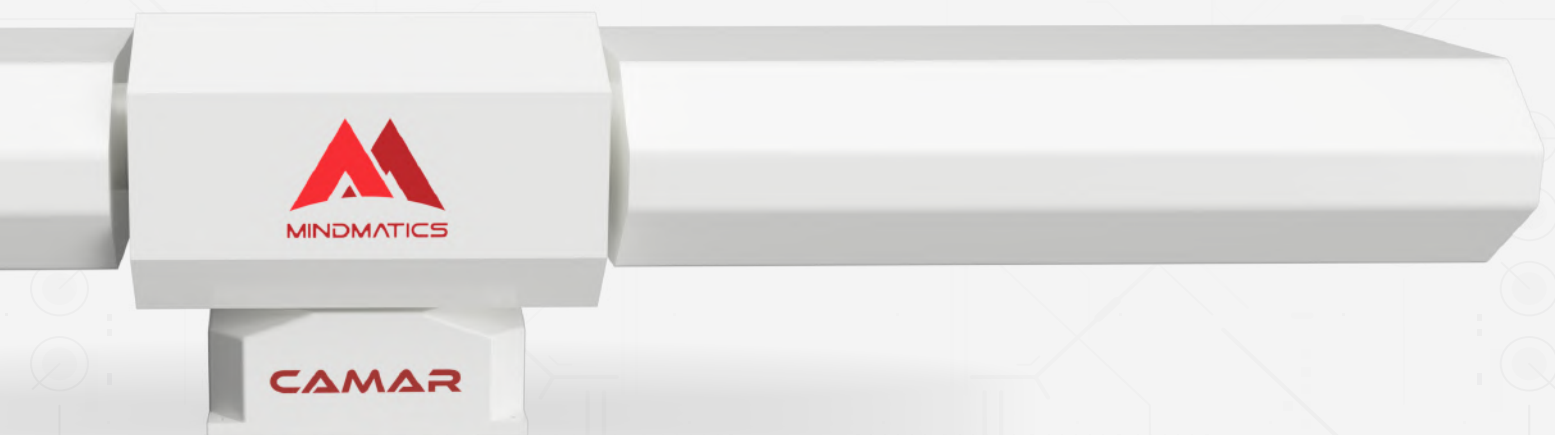
Low Probability of Intercept (LPI) through low transmitter power



Sector Scan



Threat Evaluation



Technical Specifications

System	
Radar Type	Frequency Modulation Continuous Wave (FMCW) Low Probability of Intercept (LPI) Radar
Frequency	X-Band (9400 MHz +- 40 MHz) FM
Operation Concept	Unmanned Radar
Scanning Type	Mechanical
Detection Work Sector	360° in azimuth Sector Scan mode available
Detection Distance	Up to 30km (16 NM)
Resolution	6 meters in range 1°in azimuth
Detection Distance for Various Targets	Small Boat (1 m ² RCS) = 7km (4 NM)
	Large Boat / Small Vessel (10 m ² RCS) = 12km (6 NM)
	Large Vessel (100 m ² RCS) = 30km (16 NM)
Peak Power Transmit	10 Watts
Antenna	
Antenna Type	Slotted Array Waveguide
Polarization	Horizontal
Antenna Length per Piece	1000mm
Antenna Quantity	2 pieces (1 Receiver - RCV + 1 Transmitter - TRM)
Gain	30 dBi
Mechanical	
Period of Rotation	5 seconds per rotation
Power Consumption	100 Watts
Protection	Tropical climate, sea mist
Equipment Mass	Up to 40 kilograms



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