

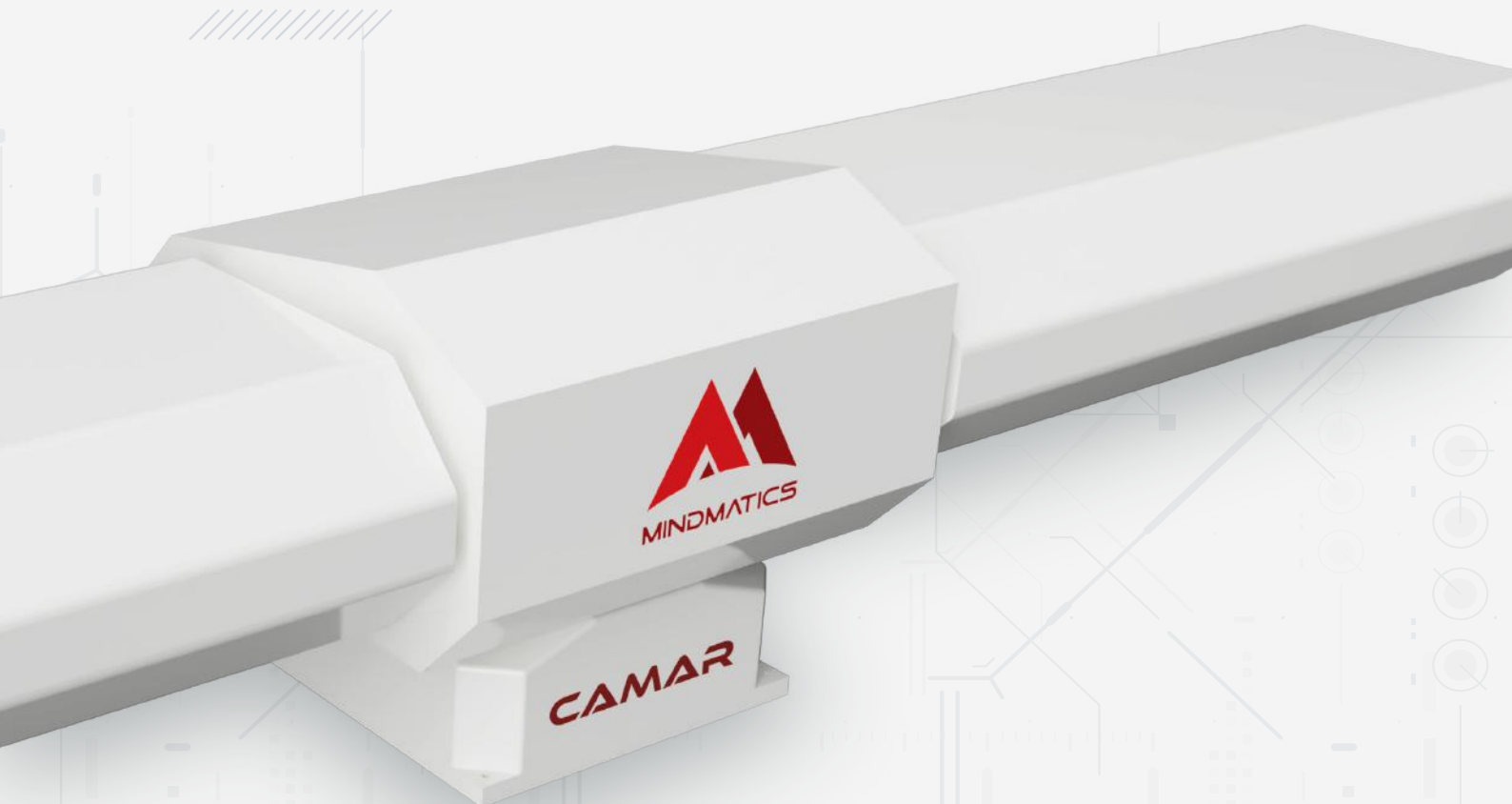


CAMAR

COASTAL SURVEILLANCE RADAR

Navigating the Waves

CAMAR, a navigation monitoring and control system, stands as a meticulously engineered solution tailored 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 provides unparalleled versatility and effectiveness, allowing it to seamlessly integrate into diverse operational frameworks. Whether utilized for maritime navigation or coastal monitoring, CAMAR delivers a comprehensive and reliable solution that meets the evolving needs of its users with precision and efficiency.



Key Features



GUI-Enabled Status Acquisition and Control



Automatic Measurement of Coordinates



Database Storage for Future Comparisons



Digitalization of Analog Radar Signals



Sector Scan



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



Simple installation, single power, and network cable connection



CAMAR

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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