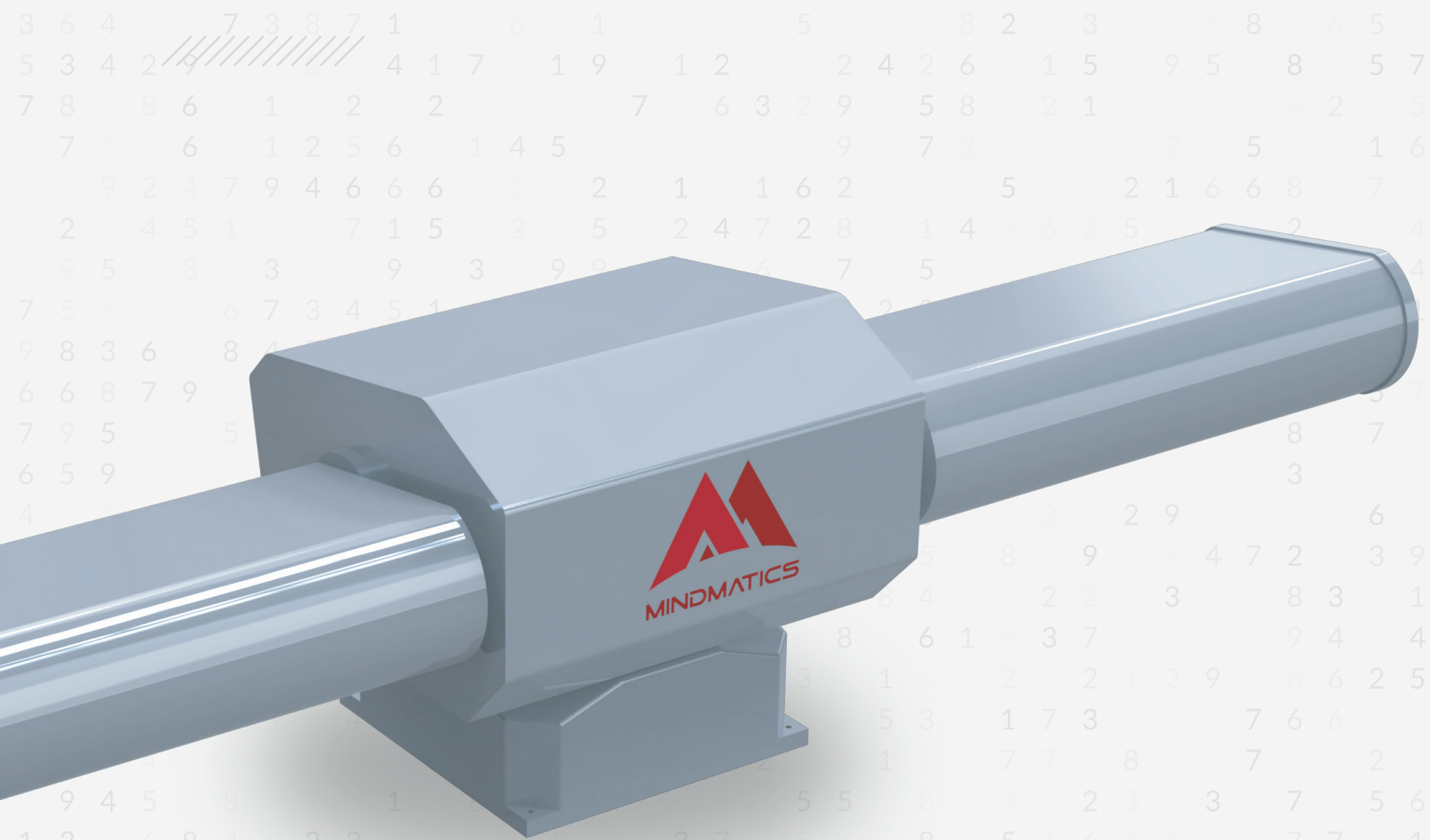




CAMAR

Coastal Surveillance Radar

CAMAR is a monitoring and control system, designed to oversee coastal border or area of interest. CAMAR provides a robust, scalable and highly adaptable network system that supports multi-layered system design.



About Mindmatics

Mindmatics Sdn. Bhd. specializes in providing comprehensive range of solutions in IT, computing and electronics. The strength of Mindmatics lies in the seamless synergy of solid technology-based design team with experienced R&D engineers. A host of homegrown innovations to fit the modern 'Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance and Targeting (C4ISRT)' needs with almost 20 years of experience in the industry, boasting our original, localized and tailored solutions, we strive to meet all defined requirements and beyond.

Key Features



Status acquisition and control via GUI



Automatic coordinate measurement of target (moving and static)



Data storage in database for future data comparison



Digitalize analog radar signals



Advanced radar processing technique for small targets



Geographical map view

Technical Specification

Parameters		Specifications
Radar Type		Frequency Modulation Continuous Wave Radar (FMCW)
Frequency		X-Band / 9400 MHz
Operation Concept		Unmanned Radar Low probability of interception
Transmitter Power		10 W
Antenna Gain		25 dB
Scanning Type		Mechanical
Period Rotation Antenna		5 sec
Detection Work Sector		360° Azimuth / 30° Elevations
Detection Distance (max)		30 km
Distance Detection	Small Boat	1 m ² RCS = 7 km
	Large Boat / Small Vessel	10.0 m ² RCS = 12 km
	Large Vessel	100 m ² RCS = 30 km
Target Classification		moving / not moving
Speed Measurement Minimum		1 km/h
Resolution		15 m - in range 1° - in azimuth
Multi Sensor Data Fusion		Available
Built-in GPS		Yes
Built-in Compass		Yes
Connectivity		Ethernet
Supply Voltage		DC 27 ± 7 V
Power Consumption		100 W
Weight		40 kg

