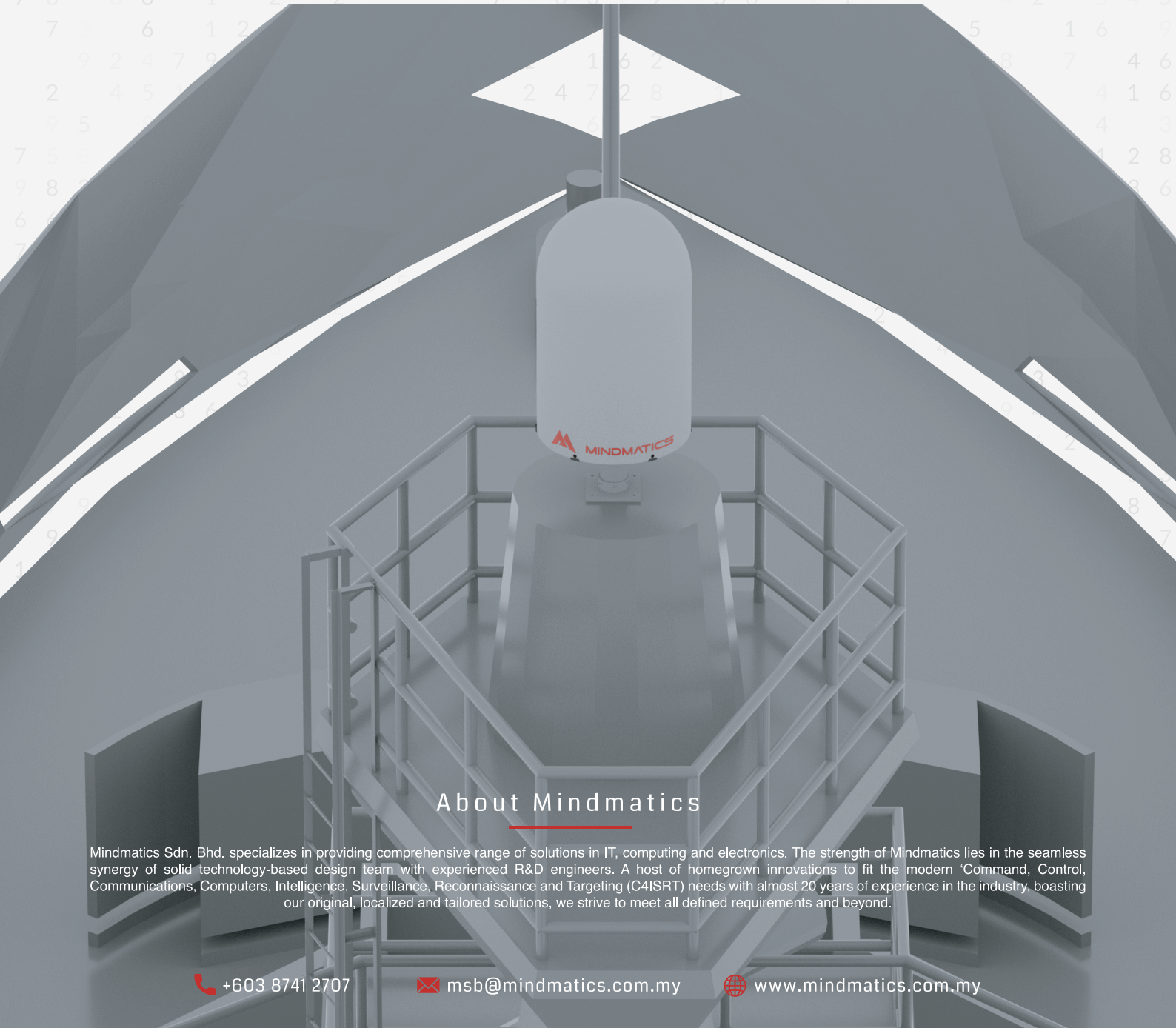
MINDMATICS

KURITA

Radar Electronic Support Measure

KURITA is a Radar Electronic Support Measure (RESM) system that is capable in direction finding, signal analysis and emitter classification. It is vital for the vessel petrol ship as an early warning system of any incoming threat from airborne, naval and ground based target. The system is integrated with other EW platforms such as COMINT, RDF and existing SIGINT assets to optimize its operability.



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.

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Key Features

Reception of signals emitted by the radars in all direction within 500 km radius including air target.

Characterise target's signal and evaluate its shape parameter to compare with the data in the Emitter Library.

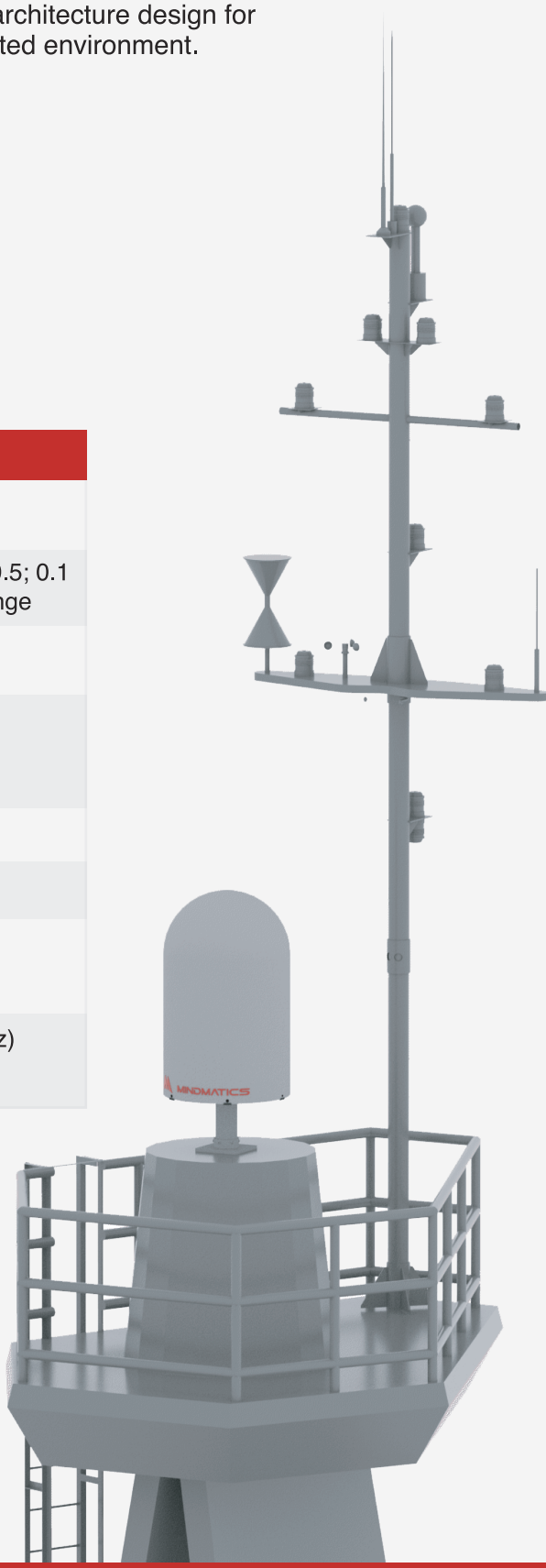
Real-time bearing identification with 3° RMS accuracy.
Recognizing the position of incoming target.

Warning system of suspicious / hostile aircraft.
Pre-empt early actions / battle readiness.

Open architecture design for integrated environment.

Technical Specification

Parameter	Specification
Operating Frequency Range, GHz	0.95 – 18
Bandwidth of Bearing Analysis, MHz **Bandwidth of Parallel Detection**	500; 100; 50; 20; 10; 5; 2; 1; 0.5; 0.1 Entire operating frequency range
Antenna Pattern	360˚ (8 beams 45˚ each)
Detection Range: **Surface Target** **Airborne Target**	 up to 100 km up to 500 km (LOS)
Direction Finding Method	RDF and TDOA
Bearing Accuracy	3˚ RMS
Numbers of Simultaneous Detection and Identifications	Up to 200
System Sensitivity	-110 dBW (wideband 500 MHz) -130 dBW (narrowband)



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