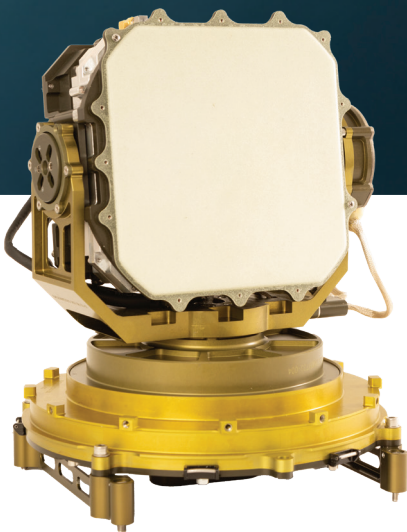# METIS ▲EROSYSTEMS ᴬᴳ

SEA SENTRY

MICRO MARITIME PATROL RADAR WITH ADVANCED PROPRIETARY TECHNOLOGY
BRINGS NEVER-BEFORE-SEEN POSSIBILITIES FOR PROTECTING COASTAL BORDERS.

As our seas grow increasingly congested with commercial, fishing and tourist operators, protecting maritime borders from illegal fishing, smugglers, terrorist attacks and myriad underworld actors has become more complex than ever before. The μ leverages Metis Aerosystems's proven in-house radar technologies and products, all currently operational throughout the world on multiple platforms, along with millimetre wave (mmW) technology, to cut through sea clutter, improve detection capability, and ensure mission effectiveness.

Implementing patented sophisticated design features combined with powerful signal processing algorithms, the SeaSentry uniquely detects and tracks maritime vessels with 100% accuracy in positive identification.

SMALLER. LIGHTER. SMARTER.

The SeaSentry marries today's most advanced radar technology with enhanced Moving Target Indication (MTI) to provide true, all-weather surveillance on both new and existing platforms, such as Unmanned Aerial Systems, small helicopters and fixed-wing aircraft.

Implemented in a single small Line Replaceable Unit (LRU), the SeaSentry is extremely lightweight and requires very low power consumption. It can be installed in conjunction with AIS and an Electro-optical (EO/IR) payload and perform automatic cross-cues between the radar and the EO/IR sensor to confirm target identification and automatically inform ground control using precise geo-reference.

Designed to work 24/7, the SeaSentry is easily managed by a ground control operator using Metis Aerosystems's Radar Control and Display (RCD) system, an intuitive interface that enables simple and effective maritime and ground surveillance.

Technical Specifications

Feature	Specification
Operating Frequency	Ka Band
Target Tracking	Up to 50 targets simultaneously
Gimbal rate	Up to 25 deg/sec
Range	Up to 40 km for 1000 m^2 RCS vessels
Weight	Less than 7 kg
Power consumption	Less than 200 Watt @ 28VDC
Interface	Ethernet, Standardized and proprietary Data Formats
Built-in Test	PBIT, CBIT and IBIT capability

SeaSentry Key Benefits

• High performance MTI for scanning, detection and tracking maritime vessels
• Extended 40 km detection range
• Single lightweight and compact LRU
• High reliability
• Simple installation on small platforms
• Intuitive RCD Interface tailored for Remotely Piloted Aircraft
• Easy integration with customer's C2
• Low cost of ownership
• Simple installation in multiple locations
• Tailored for small platforms