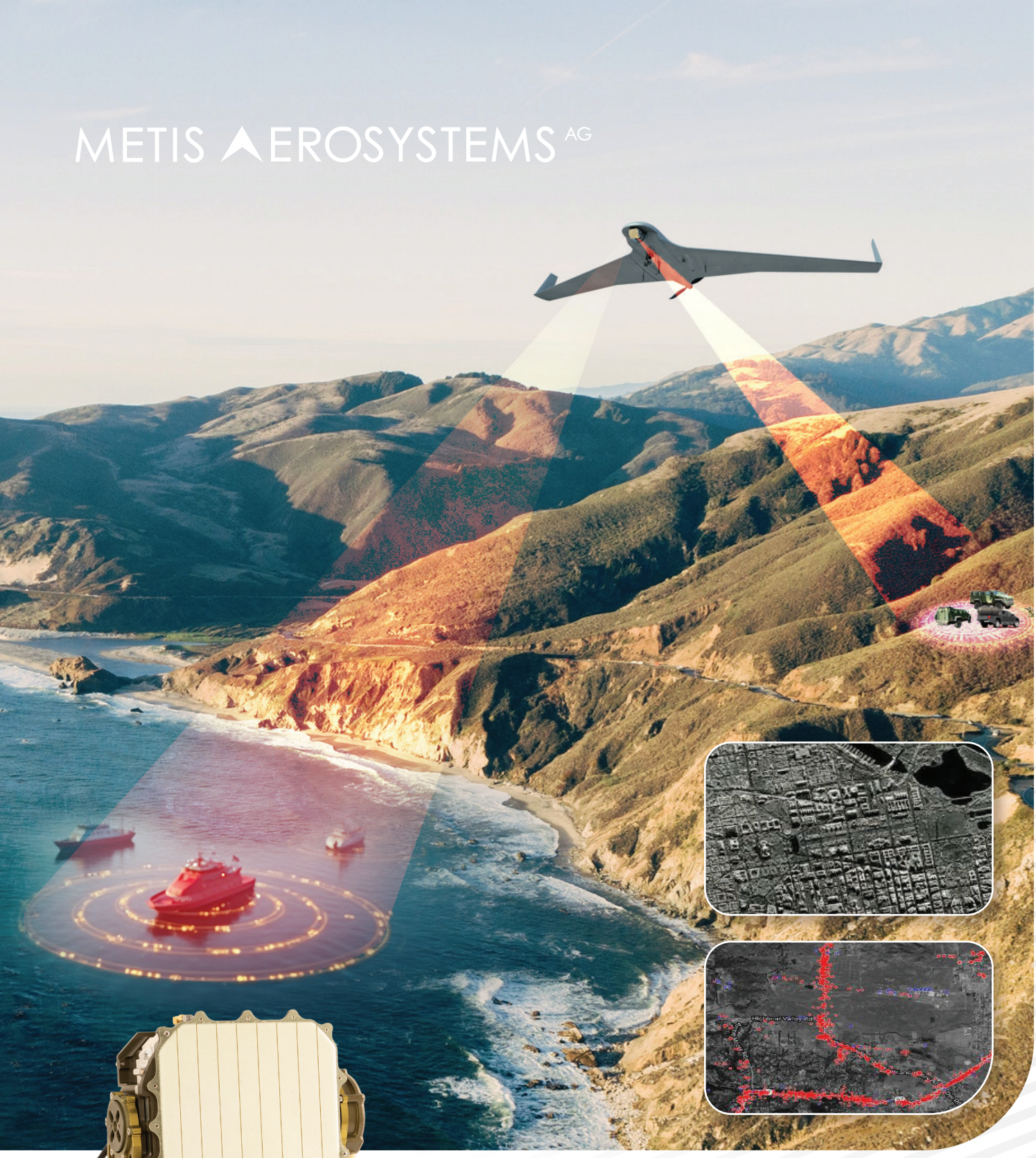
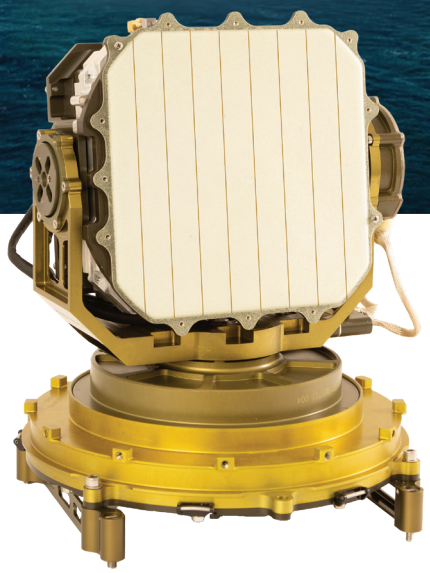
METIS AEROSYSTEMS AG





AEROVERSE

ULTRA COMPACT MULTI - FUNCTIONAL MISSION RADAR WITH UNMATCHED DETECTION AND SURVEILLANCE CAPABILITIES

As our land and seas grow increasingly important to our security, protecting the borders from illegal activities such unreported and undocumented fishing, smuggling, terrorist attacks and a myriad of activities by malicious actors, has become more important than ever before. The AeroVerse leverages Metis Aerosystems's proven in-house radar technologies and products, all currently operational throughout the world on multiple platforms, along with millimetre wave technology, to cut through sea and land clutter, improve detection capability, and ensure mission effectiveness. Implementing patented sophisticated design features combined with powerful signal processing algorithms,
the AeroVerse detects and tracks maritime and land targets with exceptionally high accuracy and low FAR, and provides high resolution SAR & ISAR imagery, all in a compact, lightweight single LRU.

The AeroVerse marries today's most advanced radar technology with enhanced Ground and Air Moving Target Indication (GMTI/AMTI) along with Synthetic Aperture Radar (SAR) capabilities, to provide true, all-weather ground and maritime 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 AeroVerse is extremely lightweight and requires very low power consumption. It can be installed in conjunction with AIS and an Electro-optical (EO/IR) payload to perform automatic cross-cues between the radar and the EO/IR sensor, confirm target identification and automatically inform mission controllers using precise geo-reference data. Designed to work 24/7, the AeroVerse is easily managed by the operator using Metis Aerosystems's Radar Control and Display (RCD), an intuitive interface that enables simple and effective radar control, target management and mission execution in maritime and ground surveillance scenarios.

Technical Specifications

Feature	Specification
Operating Frequency	Ka Band
Target Tracking	Over 200 Targets Simultaneously
Range	AMTI: > 20 km for targets with RCS ≥ 10 m^2 (small truck) GMTI: > 25 km for targets with RCS ≥ 5 m^2 (small aircraft) MMTI: > 45 km for targets with RCS ≥ 100 m^2 (vessel) MMTI: > 80 km for targets with RCS ≥ 1000 m^2 (container ship) SAR: 40 km for 0.6m SpotSAR, 30 km for 0.3m SpotSAR ISAR: Supported with resolution down to 2.5 m
SAR Resolution	Down to 0.3 m
Weight	Less than 7 kg
Dual Axis Monopulse Measurement	0.2° (1σ) Angular Accuracy
Operational Modes	MPR, GMTI, AMTI, MMTI, SAR, ISAR
Power Consumption	Less than 200 Watt @ 28VDC
Dimensions	22 cm Diameter and 28 cm Height
Interface	Ethernet, Standardized and Proprietary Data Formats, STANAG Compliant
MIL-STD Qualification Basis	MIL-STD 810H, MIL-STD 461G, MIL-STD 704B
Built-in Test	PBIT, CBIT and IBIT Capability

AeroVerse Key Benefits

- High performance SAR/GMTI/AMTI/MPR modes for scanning, detection and tracking
- Single lightweight and compact LRU
- High reliability
- Simple installation on small platforms
- Intuitive RCD Interface tailored for manned and unmanned platforms
- Easy integration with customer's C2 systems
- Low cost of ownership

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