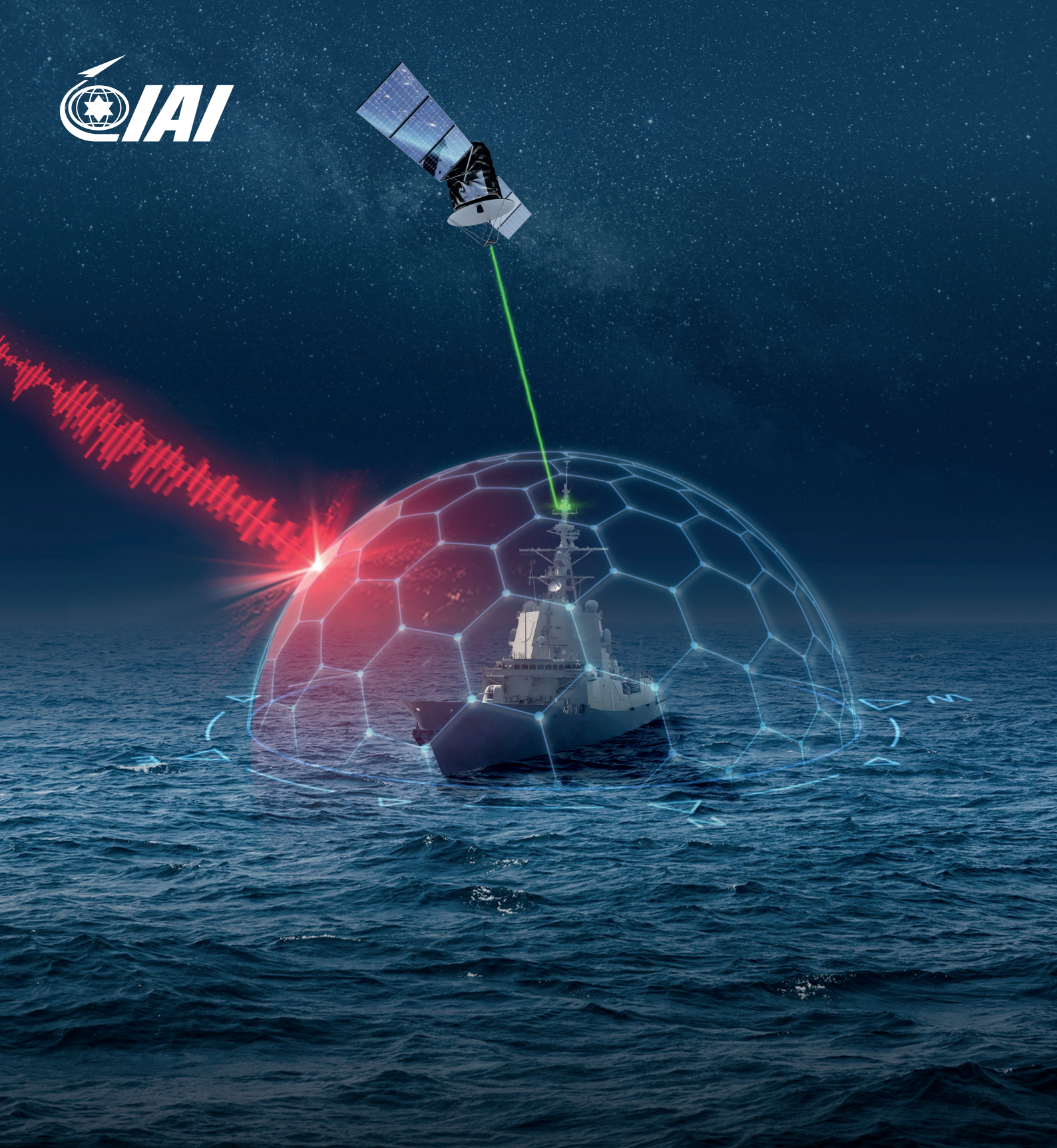

ADA - O Marine

Superior Jam Resistant GNSS for Surface Applications

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GENERAL

The ADA-O Marine provides a GNSS anti-jamming solution, incorporating an electronic unit and a multiple-element antenna array in a single Line Replaceable Unit (LRU).

The ADA-O Marine employs cutting-edge technology to achieve the highest possible jamming resistance and GNSS accuracy, under the most stringent multi-jammer scenarios.

To counter the effects of all types of GNSS interference and jamming, the ADA-O Marine uses adaptive processing techniques forming spatial nulls to suppress jammers while maintaining signals from GNSS satellites to yield the highest possible GNSS anti-jam performance. The ADA-O Marine is designed and tested to function as an outdoor unit, to withstand environmental conditions typical to naval applications such as surface ships, USVs, radars and more, including Ingress Protection per IP65.

GNSS ANTI-JAM ENHANCED EXPERIENCE

IAI has over 20 years of proven experience in supplying top-tier GNSS anti-jam solutions for the most challenging requirements, and vast experience in integrating immune navigation solutions into airborne, surface, maritime and guided munitions.

IAI's GNSS anti-jam solutions are based on its unique end-to-end solution which includes simulation environment of the operational arena, Control Reception Pattern Antenna (CRPA) – Passive, Active or Conformal types, Antenna Electronics (AE), and Integration Support.

INCREASING THREATS

GNSS signal jamming and interference, easily achieved by cheap, low-end equipment, can seriously degrade GNSS Position, Navigation and Timing (PNT) even to the point of total solution denial.

KEY FEATURES

- Single enclosure system
- Operationally deployed and tested for naval applications and environmental conditions
- Superior GNSS anti-jam protection
- Multiple element Controlled Reception Pattern Antenna (CRPA)
- Dual-band simultaneous processing compatible with SAASM/P(Y) code and M-Code receivers
- Integral GPS receiver
- RF output with adjustable power level to support external GNSS receivers
- High reliability
- Combat proven digital technology
- Available COTS or customized to customer's unique requirements
- ITAR Free

CHARACTERISTICS

ENVIRONMENTAL CHARACTERISTICS

- Temperature -40 °C to +71 °C
- Ingress protection: IP65 (Heavy Rain)
- Compatible with MIL-STD-810G
- Cooling: Convection

PHYSICAL CHARACTERISTICS

- Power consumption <45 W@28 VDC (MIL-STD-1275B)
- Weight < 8.5 kg/18.7 lbs.
- Size 310 mm (12.2'') x 310 mm (12.2'') x 100 mm (3.9'')

INTERFACES

- Input Power: MIL-STD-38999 (18-36 VDC)
- RF Out: TNC Female
- Data: MIL-STD-38999 (RS-422, Ethernet, 1PPS)

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