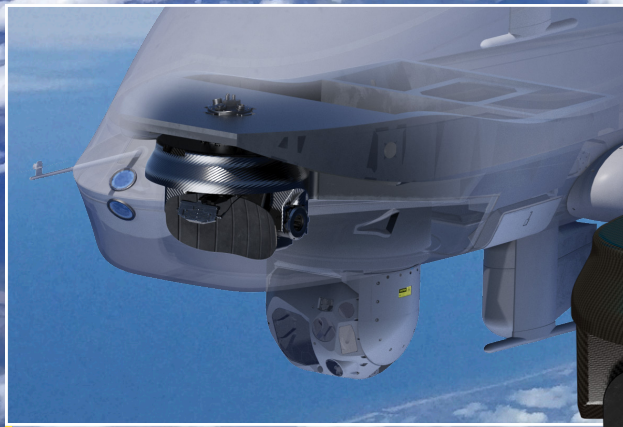
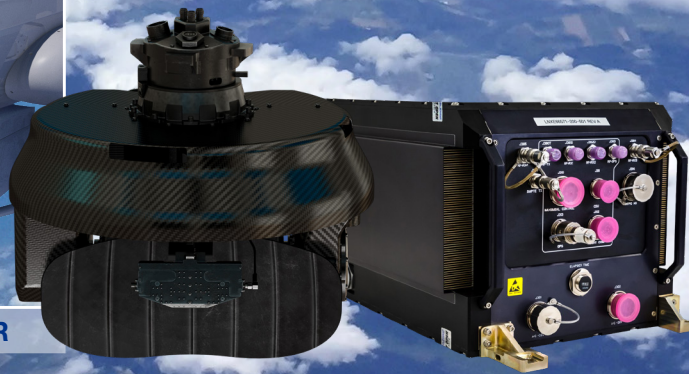


# Eagle Eye

NEXT-GENERATION SURVEILLANCE RADAR



MULTI-DOMAIN/MULTI-MISSION RADAR



Enabling Information Dominance

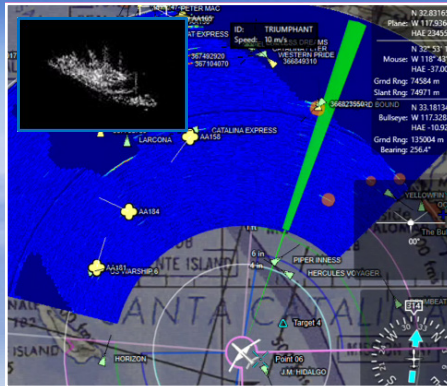
 **GENERAL ATOMICS**  
**AERONAUTICAL**

# Eagle Eye

## NEXT-GENERATION SURVEILLANCE RADAR

General Atomics Aeronautical Systems, Inc.'s state-of-the-art *Eagle Eye* radar provides next-generation intelligence, surveillance, and reconnaissance (ISR) for manned and unmanned aircraft. *Eagle Eye*'s maritime surveillance, SAR and ISAR imaging, and moving target tracking with SAR full motion video, enable the aircraft to provide high-resolution precision imagery in the most challenging environments and under adverse weather conditions. Ready for any mission, whether domestic or expeditionary, *Eagle Eye* provides a bird's eye view to deliver unmatched situational awareness to the warfighter.

### MARITIME



Maritime Surveillance with ISAR Imaging

### OVER LAND



Moving Target Tracking

SAR Imaging with Precision Targeting

## FEATURES/BENEFITS

- All-in-One Solution: True multi-mission capability from a single low-cost/low-SWAP radar package
- Technical Readiness Level 9: GA-ASI multi-mode radars are fielded on over 500 manned and unmanned aircraft
- Ease of Use: Intuitive user interface with mission-centric command and control
- All-Weather Imaging: Generate extremely high-resolution photographic-like imagery and perform long-range precision targeting using spotlight, stripmap, and brickmap SAR
- Moving Target Tracking: Detect and track ground movers using DMTI and GMTI modes
- SAR Full Motion Video: Simultaneously image, detect, and track stationary and moving ground objects from intuitive EO/IR-like SAR video with unprecedented situational awareness and target geo-location accuracy
- Maritime Surveillance with ISAR Imaging: Quickly detect, track, and classify challenging maritime vessels in blue water or littoral environments
- Processing/Exploitation/Dissemination: Change detection; automatic manmade object detection; pattern-of-life analysis; compliant with STANAG and NITF data standards
- Situational Awareness: Artificial intelligence/machine learning-enabled target detection, classification, and automation

## SPECIFICATIONS

TOTAL WEIGHT:	< 62 kg (137 lb)
INPUT POWER:	28 Vdc, 1.9 kW peak, 1.4 kW average
TRANSMIT POWER:	360W peak, 35% duty cycle
FREQUENCY:	2-channel Ku-band with 3 GHz bandwidth
COOLING:	Operates from -55° to +50°C (sealed conduction cooling)
FIELD OF VIEW:	-5° to -60° EI, ±180° Az (configurable)
SAR RESOLUTIONS:	Very fine to 3 m
SAR RANGE:	Up to 80 km (50 mi)
MTI RANGE:	Up to 60 km (38 mi)
MARITIME SURVEILLANCE RANGE:	Up to 200 km (125 mi)
ISAR RANGE:	Up to 150 km (93 mi)
ANTENNA GIMBAL SIZE:	17.1" (H) x 19.5" (D) – swept volume inside radome
ELECTRONICS ASSEMBLY SIZE:	23.7" (L) x 10.6" (H) x 12.6" (W)