

MULTI-DOMAIN | MULTI-MISSION RADAR

ABOUT US

The world leader in unmanned aerial systems.

We invent and pioneer modern solutions for military, security, governance, environmental operations and more.

We support our customers with the greatest medium-altitude and small unmanned aircraft systems, and cutting-edge mission payload and exploitation technologies.

OUR MISSION

Provide persistent, versatile, affordable airborne surveillance and effects, and turn surveillance data into actionable intelligence.



NEXT-GENERATION SURVEILLANCE RADAR

General Atomics Aeronautical Systems, Inc.'s state-of-the-art EagleEye radar provides next-generation intelligence, surveillance, and reconnaissance for manned and unmanned aircraft. EagleEye's maritime surveillance capabilities, 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, EagleEye provides a bird's-eye view to deliver unmatched situational awareness to the warfighter.

SPECIFICATIONS

TOTAL WEIGHT

< 62 kg (137 lb)

INPUT POWER

28 Vdc, 1.9 kW peak, 1.4 kW average

TRANSMIT POWER

360 W 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° El, ±180° Az (configurable)

SAR RESOLUTIONS

Very fine to 3 m

SAR RANGE

Up to 80 km (43 nm)

MTI RANGE

Up to 60 km (32 nm)

MARITIME SURVEILLANCE RANGE

Up to 200 km (108 nm)

ISAR RANGE

Up to 150 km (81 nm)

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)

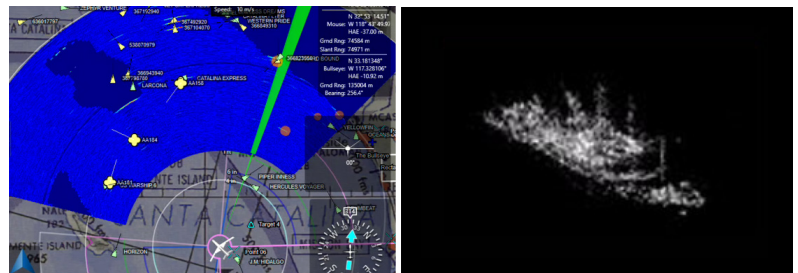


NEXT-GENERATION SURVEILLANCE RADAR

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 targeted 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
- Active Electronically Scanned Array (AESA): A more advanced and sophisticated all-electronic antenna that will greatly improve radar performance, repairability, and reliability (*in development*)

MARITIME



Maritime Surveillance With ISAR Imaging

OVER LAND



Moving Target Tracking

SAR Imaging With Precision Targeting



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