



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.

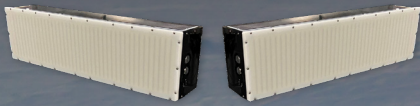
OUR MISSION

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

Detect & Avoid System

NEXT-GENERATION TRAFFIC AVOIDANCE

General Atomics Aeronautical Systems, Inc.'s (GA-ASI) **Detect and Avoid (DAA) system** is a highly effective solution for remotely piloted aircraft to “see and avoid” cooperative and non-cooperative aircraft. DAA also provides advanced collision avoidance capability for safe and FAA-compliant operations in both restricted and unrestricted airspace. With the DAA system, remotely piloted aircraft pilots can monitor air traffic and receive automated alerts, as well as review local weather conditions, empowering crews with critical airspace insight for tactical conflict management. DAA provides a proven solution for safe operations and unmatched air-to-air domain awareness, expanding mission capabilities and delivering greater value to customers.



Air-to-Air Radar (ATAR)
TSO-C212

Non-cooperative detection and cooperative validation



DAA Airborne Processor

TSO-C211 Class 2, Articles A & B

Airborne DAA processing with long-standing TCAS pedigree
TCAS II 7.1 + ADS-B In



DAA Control Station Processor & Display

TSO-C211 Class 2, Articles C, D, & E

DAA horizontal and vertical alerting and guidance

Expanded alerting timeline for conflict management



GA-ASI's Certifiable Ground Control Station (CGCS)

Avionics display in pilot's primary field of view

CERTIFICATIONS

- TSO-C211 and TSO-C212 demonstrates DAA's ability to safely operate in mixed-use airspace (certification in progress)

SYSTEM COMPONENTS

- DO-365B Class 2 DAA system
- TCAS II with hybrid surveillance
- ADS-B In receiver (1090ES direct, UAT via ADS-R)
- DO-366 ATAR
- Dual-touchscreen traffic displays in control station
- DO-178C and DO-254 design assurance level B

FEATURES / BENEFITS

- Enables "see and avoid" (14 CFR 91.113(b)) capability for MQ-9B transit and loiter operations
- Uses simultaneous alerting and guidance assessment to provide early notification of developing traffic encounters to UAS operators
- Seamlessly integrates TCAS II Resolution Advisory functionality, including optional vertical auto-maneuver capability
- Utilizes ADS-B In, TCAS II Hybrid Surveillance, and ATAR to ensure local air traffic is reliably detected and displayed to aircrew
- Detects cooperative* and non-cooperative traffic in the local airspace

*Cooperative traffic is equipped with Mode C, Mode S, and/or ADS-B Out



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