



## 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.

# Self-Protection Pod

## MODULAR AIRCRAFT SURVIVABILITY SYSTEM

Missionized self-protection allows Unmanned Aircraft Systems (UAS) to continue delivering critical Intelligence, Surveillance, and Reconnaissance (ISR) in high-tension environments. The **Self-Protection Pod (SPP)** is a game-changing countermeasures capability that enables the tracking of radio frequency and infrared missile threats, deployment of countermeasures, and real-time threat awareness and protection onboard a UAS.

At the heart of the SPP is the Terma AN/ALQ-213 Electronic Warfare Management System, which provides the interface, health and status monitoring, and command and control for the various systems installed within the pod. The AN/ALQ-213 functions as the aircraft survivability equipment manager, coordinating between the various threat warnings and dispensing systems to automatically deploy the appropriate sequencing pattern and expendables to protect the UAS.

## CHARACTERISTICS

### DIMENSIONS

82" x 23" x 19"  
2 m x 0.6 m x 0.5 m

### WEIGHT

386 lb/175 kg

### POWER

115 VAC, 2.5 KvA



# Self-Protection Pod

## MODULAR AIRCRAFT SURVIVABILITY SYSTEM

### FEATURES/BENEFITS

- Mitigates surface-to-air threats for MQ-1 and MQ-9 UAS and manned aircraft operations
- Delivers enhanced survivability against both infrared and radio frequency threats
- Features the Leonardo DRS AN/AAQ-45 Distributed Aperture Infrared Countermeasure (DAIRCM) system that utilizes a single sensor for both two-color infrared missile warning and a wide field-of-view gimbal for threat countermeasures
- Includes Raytheon's AN/ALR-69A(V), a fully digital radar warning receiver that detects, identifies, and locates threat electronic signals
- Uses a BAE Systems ALE-47 countermeasures dispenser system to launch airborne flares, chaff, and other airborne decoys



GA-ASI's MQ-9 UAS SPP Flare Salvo Demonstration  
in late 2020 at Yuma Proving Grounds



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