



AMS

Armament Management System



AMS Armament Management System



SYSTEM FUNCTION

- Station Selection
- Weapon Selection
- Weapon Type
- Burst & Interval for Rocket Fire
- Round counter & Limiter for Gun Fire
- Real-Time Inventory Update

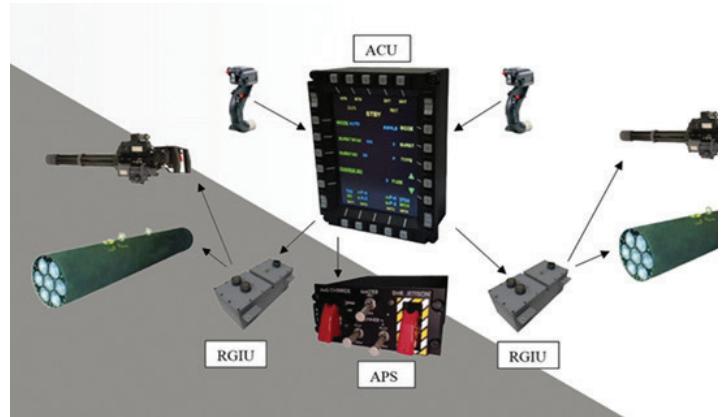
In today's increasingly hostile environment, even utility helicopters and light aircraft platforms need security enhancements to improve survivability, and ensure mission completion. In the asymmetric warfare arena that evolved in recent years, any self-defense solution should include offensive capabilities to deter and repel enemy attacks.

A good offensive self-defense system must provide guaranteed performance and operational readiness, while keeping operating and maintenance tasks to a minimum. In addition, the system should provide for continuous implementation of innovative process and hardware improvements.

CFD International offers an advanced system with AMS - an affordable and low-weight solution supporting current and future needs.

Operational Features

- Standalone rocket and gun control system for all helicopters and fixed wing aircraft.
- Open architecture with:
 - Armament Control Unit (ACU)
 - Multi-Function Color Display (MFCD)
 - Rockets and Guns Interface Unit (RGIU)
- Growth potential of software and hardware interfaces with the same connector:
 - New types of weapons
 - Chaff & Flare dispensing control
 - Display images from observation system
- Significantly reduce aircrew work load.
- MIL-STD-1553B or RS-422 serial communication for intrasystem interface.
- Built-In-Test (BIT)



About CFD International

Founded in 1985 by the late Paul Sanderson - inventor of the OMS, the company's focus is serving warfighters by providing premium weapon systems for helicopters. With over 30 years of experience, and holding more than 40 patents, CFD International specializes in the design and manufacture of the finest weapons/sensor mounting solutions, ammunition handling and fire-control armament management systems available today. We are the world leader in providing a turn-key, integrated solution customized to your specific needs and requirements.

System Description

ACU:

Leading-edge digital computer controlling mission application, I/O Video, Voice and Graphics processing.

RGIU:

Rockets and Guns Interface Unit, enabling full functionality control. Interfaces with the ACU digitally.

Safety Features

- The AMS complies with weapon safety requirements
- Controls and monitors safe firing of rockets and guns
- Management of power supply to the stores
- Separate discrete for emergency jettison capability
- Prevention of unintentional firing on ground allies with precision-engineered weapon system solutions emphasizing accuracy, reliability, durability and light weight.



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CHARACTERISTICS	PERFORMANCE
Display Area	5" diagonal LCD display
NVG Support	Per MIL-STD-3009 NVIS class B
Interfaces	RS-422, MIL-STD-1553, LAN and Discretes
Electrical Input	28V per MIL-STD-704A
Environmental (MIL-STD-810F)	<ul style="list-style-type: none"> • Temperature: Operating: - 30°C to -55°C • Altitude: Operating: up to 45000 ft • Humidity: 98% @ +35°C • Mechanical shock (operation): 20g for duration of 11+/- 1ms, (Crash safety) at 40G • Acceleration • Explosive atmosphere • Gun fire • Random vibrations • Sand and Dust, Salt Atmosphere, Fungus • Rain: Water jets
EMI/RFI (MIL-STD-461E)	<ul style="list-style-type: none"> • CE102, CS101, CS114, CS115, CS116 • RE102, RS101, RS103
Reliability (prediction)	5000 hours at 35°C
Dimension	RGIU/RIU - 10.5" x 6.25" x 4.5" ACU - 6.5" x 5.75" x 4.5"
Weight	RGIU/RIU - 6 lbs ACU - 5 lbs

For more information on AMS and to discover other CFD products and services visit us on our website at cfdintl.com

Or see us on You Tube: www.youtube.com/user/CFDintl

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