



Integrated Weapons Delivery System

Complete End-to-End Solution for Stores Management

CMC Electronics' Integrated Weapons Delivery System (IWDS) is an end-to-end, pilot consent-through-weapons-release solution for stores management. It is the latest addition to the company's affordable and high-performance suite of integrated avionics systems.

Available for both rotary and fixed wing aircraft, the IWDS features CMC Electronics' 25° wide field of view HeliHawk or SparrowHawk™ Head-Up Display for navigation and accurate ballistic weapons aiming; FV-4000 Mission Computer for powerful multi-display graphics generation and I/O mission processing; Armament Interface Unit as hardened weapons interface for external or internal installations; multi-page, sunlight readable Multi-Function Displays for the display of critical and non-critical data; and a customizable Weapons Control Panel.

The IWDS features advanced capabilities including: passive/silent rangefinding using high-resolution Digital Terrain Elevation Data (DTED2); Terrain Awareness Warning; embedded digital map; mission-loadable tactical data and maps; external

sensor/EVS display (FLIR-on-HUD, etc); multi-AIU and multi-pylon control capability; embedded ACMI capable; and Compact PCI open architecture for future upgrades and growth.



INTEGRATED WEAPONS DELIVERY SYSTEM (IWDS) - CHARACTERISTICS

HEAD-UP DISPLAY - 25° TOTAL FIELD OF VIEW

Stroke only, or stroke/raster - NVG compatible
(CCIP) Continuously Computed Impact Point
(CCRP) Continuously Computed Release Point
(CCIL) Continuously Computed Impact Line
(LCOS) Lead Compensating Optical Sight
Accuracy: 0.0 to 2.0 mr.
Electronic boresighting capability
High brightness - 1.3 to 1 contrast ratio against 10,000 ftL ambient



MISSION COMPUTER

Multi-processor and hardware partitioning capability to isolate navigation and mission code
Passive range finding using terrain elevation data
Digital map terrain awareness and warning
Head-Up Display generation
MFD symbol generation for IWDS stores management display only, or complete cockpit display management
Open Architecture accommodates future aircraft upgrades and growth e.g., Embedded Air Combat Maneuvering Instrumentation



ARMAMENT INTERFACE UNIT

Hardened weapons interface for external or internal installations
Single or multiple AIU capability for redundancy
No software-in-the-loop for safety critical weapons requirements and certification
Adjustable pylon angle controller



MULTIFUNCTION DISPLAYS

Full color, high resolution
Sunlight readable (330 ftL)
Smooth, high-quality graphics - SVGA or XGA resolution
NVG compatible
Full military environment
Extensive Built-In-Test (BIT) capabilities
4"x5", 5"x5", 5"x7" and 6"x8" sizes



WEAPONS CONTROL PANEL

Customizable control interface for aircraft role and weapon type
NVG compatible
5V/28V
Standard Dzus rail size for standard mounting



ENVIRONMENT

MIL-810E, DO-160D, BS3G

EMI/EMC

MIL-STD-461, MIL-STD-462, DO160D



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