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 - 25º 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

For information purposes only. To accommodate product improvements, specifications are subject to change without notice.
SparrowHawk™ is a trademark of CMC Electronics.