



DIGITAL HEAD-UP DISPLAY

LEVERAGING PROVEN PERFORMANCE AND THE LATEST TECHNOLOGY TO DELIVER UNPARALLELED RELIABILITY, MAINTAINABILITY AND VALUE

One of the most trusted names in avionics, CMC Electronics latest generation of digital head-up display (HUD) draws from its long experience in developing cutting edge technology and working with customers to deliver the most reliable information possible to pilots for enhanced mission success.

FEATURES

- Largest Total Field-of-View (TFOV) per unit weight, volume, and price in the military market
- Plug-and-Play digital video display via a high-throughput ARINC 818 interface
- High-resolution and highly reliable digital video display
- Superior image quality with enhanced brightness capabilities
- Open and modular design that simplifies the integration into existing and future cockpits
- Lower SWaP-C than equivalent CRT HUDs with typical power dissipation around 50 Watts
- Highest predicted Mean Time Between Failures (MTBF) in the category driven by the elimination of life-limited components (LLC) in the design
- Unparalleled raster performance with the ability to fill the entire FOV with imagery
- Designed and qualified for high temperature storage up to 110°C
- Enhanced provisions for future growth capabilities such as storage of aircraft specific data

BENEFITS

- Low total cost of ownership (TCO)
- Seamless and cost-effective integration with any type of mission computer in a large array of cockpits
- Eased pilot training and/or transition across aircraft types
- Enhanced mission efficiency and flight safety
- Maximum reliability and maintainability



Digital Head-Up Display Specifications

Parameter	Value
Total Field of View (TFOV)	25° x 25°
System Interfaces	ARINC 818, RS-422
Display Type	Raster
Display Accuracy	1.5mr
Display Resolution	1024 x 1024 pixels
Display Contrast	≥1.3 (Against 10,000fL Background)
Outside World Transmission	>70% (Photopic)
NVIS Compatibility (MIL-STD-3009)	Type I Class C
Operating Temperature	-55 °C to +75 °C
Storage Temperature	-55 °C to +110 °C
Environmental	DO-160G/MIL-STD-810
EMI	DO-160G/MIL-STD-704
Weight	22-27 lb (Configuration Dependant)
Power Dissipation	~50 Watts Typical (Max: 90 Watts)
MTBF (AIF, 40 °C)	>10,000 Hours

Built on a reputation for excellence and reliability

<p>35+ Years of Experience</p> <p>CMC's HUD Center of Excellence with full in-house capabilities from design & certification through manufacturing</p>	<p>1000+ Units Delivered</p> <p>Built to maximize in-service reliability, maintainability, and reduce overall lifecycle costs</p>	<p>30+ Aircraft Types</p> <p>Open, modular design to minimize integration costs for future-ready fixed and rotary-wing platforms</p>	<p>20+ Customers</p> <p>Maintenance, repair, and overhaul for large array of military and civil customers across +25 countries</p>
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CMC'S HUD PORTFOLIO ALSO INCLUDES:

Analog Head-Up Display (HUD)

- SparrowHawk
- HeliHawk

HUD Card Level Products

- HUD Drive Module

HUD Accessories

- HUD Cameras, HD and SD
- HUD Symbol Generators
- Up Front Control Panels
- HUD Video Repeaters
- HUD Mounting Trays
- Boresight Module
- Boresight Tool

Weapons Software and Support

- Armament Interface Unit (AIU)
- Weapons Control Panels (WCP)
- Weapons Delivery Algorithms
- HUD Software (Flight, Navigation, and Weapon Symbology)

For more information, visit www.cmcelectronics.ca or email us at opto@cmcelectronics.ca

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