



SparrowHawk™

Head-Up Display

Compact and affordable, with proven performance and technology

A fully qualified and proven stroke on raster Head-Up Display (HUD), the CMC Electronics' SparrowHawk™ provides a 25° total field of view and is up to 50% smaller and lighter than competing systems. It also offers up to twice the accuracy, making it the most accurate HUD available on the market.

The SparrowHawk™ features extensive built-in testing for simplified maintainability, internal data logging and continuous in-flight testing to track system conditions during flight. It can also be fitted with an optional HUD camera, video recording system and an Up Front Control Panel, which allows the pilot to select the system mode and manually enter numerical data into the mission system.

The SparrowHawk™ HUD, combined with our Operational Flight Programs and Open Architecture Mission Computer, is a complete weapons delivery system providing a powerful, cost-effective solution for aircraft that perform a broad range of missions. Our systems designs offer fleet commonality and ensure minimal impact on the cockpit environment. These features ease and simplify pilot training and/or transition across aircraft types.

The SparrowHawk's™ high performance and low cost make it the best value solution for new military aircraft or for upgrades to existing aircraft. Every SparrowHawk™ HUD is backed by CMC Electronics' worldwide support network.



SPARROWHAWK™ HEAD-UP DISPLAY – CHARACTERISTICS

FEATURES

Stroke Only or Stroke on Raster

Total Field of View: 25° with 5" Aperture

Symbology Brightness Adjustable 0-3000 fL

Automatic Brightness Control

Gen 2 and Gen 3 Night Vision Goggle (NVG) Compatible

Dual Combiner Optical System

Electronic Boresighting Capability

30-Minute Operational Level Test/Remove and Replace

Continuous BIT

Optional Up-Front Control Panel (UFCP)

Optional Integrated Color HUD Camera and Video Recorder

Camera Placement Forward of Combiners

Dual Symbol Generator Capability

Compact, Flexible Design

Long CRT Life

BENEFITS

Symbology can be overlaid on any raster image, e.g. FLIR or radar.

Provides large, instantaneous field of view in a clear, sharp display with high brightness and clarity. Increases the pilot's aiming envelope. Allows for pinpoint accuracy and a greater combat safety margin.

Symbology readable under all ambient light conditions.

Automatically adjusts symbol brightness for varying light ambience.

Clear, sharp HUD image during night operations.

Provides large instantaneous field of view with excellent transmissivity.

Simplifies HUD installation process, increased accuracy.

Enhances maintenance efficiency and extends in-service hours.

Automatically validates HUD operation.

Allows the pilot to select the system mode and manually enter numeric data into the mission system.

Training or mission debriefing.

Camera does not obstruct pilot's view. Camera video and HUD symbology electronically overlaid on video recorder and rear cockpit monitor produces high-quality display regardless of ambient light.

Hot-standby operation.

Ideal for retrofit applications.

Lower life cycle costs. More than four times the life of competing HUDs.

SPECIFICATIONS

Weight	17.25 lb/7.8 kg.
Display Color	Green P-53 phosphor.
Combiner	Single or dual.
Dual Combiner	80% transmissivity.
Aperture	5"
Draw Rate	135,000°/sec maximum.
Image Distortion	<1%
Accuracy	0.0 to 2.0 mr.
Contrast Ratio	1.3 to 1 against 10,000 ftL ambient.
Power Consumption	60 Watts.
Reliability	3,500 Hr. MTBF.
Environmental	MIL-STD-810E per MIL-5400 Class 1.
EMI	MIL-STD-461D/462D.

Esterline

CMC Electronics

Ottawa Facility
415 Legget Drive, P.O. Box 13330
Ontario, Canada K2K 2B2
Tel: (613) 592-6500
Fax: (613) 592-7427
www.cmcelectronics.ca

Chicago Facility
84 North Dugan Road, P.O. Box 250
Sugar Grove, IL 60554-0250, U.S.A.
Tel: (630) 466-4343
Fax: (630) 466-4358
www.cmcelectronics.us

European Office
17 North Street Workshops, North Street
Stoke-sub-Hamdon, Somerset TA14 6QR
United Kingdom
Tel: +44(0) 1935 829177
Fax: +44(0) 1935 829014

