



HeliHawk®

Head-Up Display

Fully Qualified and Proven Stroke on Raster OverHead Mounted HUD for Helicopters

- Compact, lightweight, affordable – 50% lighter than competing systems
- 25° total field of view
- Single combiner adjustable to accommodate individual pilots
- Gen 2 and Gen 3 Night Vision Goggle (NVG) compatible
- Symbology brightness adjustable 0-3,000 fL
- Automatic brightness control adjusts symbol brightness for varying light conditions
- Continuous Built in Test automatically validates HUD operation
- Electronic boresight capability for increased accuracy and simplified HUD installation

The HeliHawk HUD, combined with Operational Flight Programs (OFP) and the Open-Architecture Mission Computer (OMC), is a complete navigation and weapons delivery system providing a powerful, cost-effective solution for rotary wing 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 HeliHawk's high performance and low cost make it the best value solution for new military aircraft or for upgrades to existing aircraft. Every HeliHawk HUD is backed by CMC Electronics' worldwide support network.

The HeliHawk HUD is based on the SparrowHawk HUD for fixed wing aircraft currently used in the U.S. Navy F-14B, the Boeing/Aero L-159, and the Pilatus PC-7, PC-9 and PC-21. A derivative of the SparrowHawk has also been chosen for the Lockheed Martin Concept Demonstration Aircraft.



HELIHAWK HEAD-UP DISPLAY – CHARACTERISTICS

FEATURES

Stroke Only or Stroke on Raster

**Total Field of View: 25° with 5" Aperture
IFOV 24° H x 15.8° V**

Symbology Brightness Adjustable 0-3000 fL

Automatic Brightness Control

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

Adjustable Combiner Position

Electronic Boresighting Capability

**30-Minute Operational Level Test/Remove
and Replace**

Continuous BIT

**Optional Integrated Color HUD Camera
and Video Recorder**

**Camera Placement Forward of
Combiner**

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 for ballistic weapon delivery 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 adjustment to accommodate for individual pilots. Stows in a raised position flat against the bottom of the HUD.

Simplifies HUD installation process and increases accuracy.

Enhances maintenance efficiency and extends in-service hours.

Automatically validates HUD operation.

Training or mission debriefing.

Camera video and HUD symbology electronically overlaid on video recorder and/or rear cockpit monitor.

Ideal for retrofit applications.

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

SPECIFICATIONS

Weight	17.6 lb/8 kg.
Display Color	Green P-53 phosphor.
Single 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. MIL-STD-704E.
Reliability	7,000 Hr. MTBF.
Environmental	MIL-STD-810E per MIL-5400 Class 1, BS.3G.100.
EMI	MIL-STD-461D/462D, DEF STAN 59-41/RTCA DO-160D.



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