

# **MonoHUD AN/AVQ-34**

## **Weapons Aiming Computer / Head Up Display**



- **Enhanced Operational Capabilities for Weapons Aiming Computer / Head Up Display**
- **Modular Hardware and Software Design Approach for Maximum Commonality Between Airframes**
- **Combat Proven**
- **Night Vision Goggle Compatible**
- **Easy Installation – No Obstruction of Cockpit Instruments or Outside World**
- **Significant Growth Expansion Capabilities Built Into Design**

The BAE SYSTEMS MonoHUD weapons aiming computer and head up display redefines aircraft sighting and introduces new possibilities for helicopter tactical flexibility.

MonoHUD is a system conceived to ensure maximum aircraft effectiveness at every level of mission complexity. As a stand-alone head up display, it is a high quality, reliable gunsight. From simple aiming reticle to advanced weapons aiming computer, MonoHUD provides reliable, highly accurate sighting solutions in a compact, low-

cost, expandable package that is completely compatible with night vision goggles.

Weapons which may be fired using the MonoHUD include everything from fixed forward-firing guns and rockets to air-to-air Stingers. MonoHUD is also designed for maximum growth potential and flexibility. It accepts a comprehensive line of interfaces, including 1553B, analog, discrete, synchro, and ARINC 429. Built-in provisions allow the system to drive two display units for dual pilot installations.



**MonoHUD  
Installation with  
Night Vision Goggles**



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## MonoHUD Specifications

- Total Field-of-View (FOV)
  - 30 Horizontal by 24 Vertical
- Instantaneous FOV
  - 22 Horizontal by 18 Vertical at 4" Design Eye
- Contrast Ratio
  - Nominally > 1.2:1 against 10,000 Ft.L
- Line Width
  - $1.2 \pm 0.3$  mR
- Mean Time between Failure
  - Greater than 2800 hours
- Power Requirement
  - 28 VDC (MIL STD 704), Maximum Power Requirement 100 W, typically 60 W
- Interfaces
  - MIL STD 1553B, Analog, Discrete, Synchro, ARINC 429
- Expandability
  - Dual Pilot Installations / New Weapons Systems / Multiple Interfaces

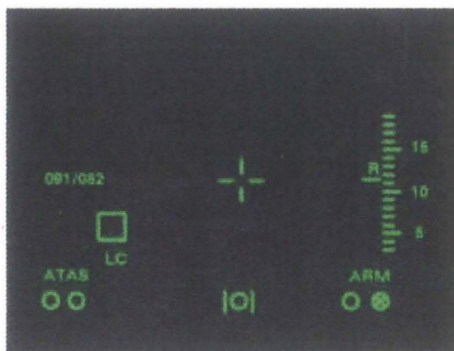
## Physical Characteristics

- Display Unit
  - 3.5" x 3.5" x 12"; 5 lbs.
- Electronics Unit
  - 12.6" x 4.9" x 7.6" (½ ATR Short); Approximately 17 lbs.
- High-Voltage PS
  - 8" x 4.5" x 4.5"; 6 lbs.
- Control Panel
  - 2.25" x 5.75" x 3.12"; 0.5 lbs. (optional)

## Environmental Qualifications

- Based on MIL-E-5400T Class 1B
- Maximum Operational Altitude
  - 20,000 ft.
- Maximum Nonoperational Altitude
  - 50,000 ft.
- Ambient Temperature Range
  - -40°C to +55°C
- EMI/EMC to MIL STD 461B
- HERD and EMV

## Sample Weapons Aiming Symboly



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