

EHUD FLAT PANEL DISPLAY



Benefits

- **Integrated Symmetrical Eyepiece Can Be Installed On Either Left Or Right Eye**
- **AMEL Flat Panel Display (0.6")**
- **25 mm Folded Optical System And Rotational Focus To Meet ITT F4949 NVGs**
- **Lightweight Integrated Package**
- **Four Outputs To Accommodate Additional Crewmembers**
- **High Speed Digital Data Cable For Connection To The HUD**
- **Rapid Egress Capability**

The BAE SYSTEMS Flat Panel Heads Up Displays is an electro-optical system that super-imposes flight and scene viewed by operators of Night Vision Goggles (NVGs).

As operators maintain their scan of the outside world, the FPHUD provides them with critical flight information during night missions or low level light-out combat missions. The optics, display and associated electronics are packaged in an integrated eyepiece that replaces one of the existing NVG eyepieces. The FPHUD can be used on either F4949 or on NVIS 6 goggle.

Recent advancements in display technology, specifically high-resolution miniature Active Matrix Electro-Luminescent Displays (AMEL) supports a breakthrough in night vision HUD design, packaging, and performance. This technology, now in production, provides a state-of-the-art solution, eliminating previous NVG HUD shortcomings, while maintaining the original design goal of increasing crew-member safety.

In the fall of 1996, the EHUD was cofunded by BAE SYSTEMS and the DOD Title III program office located at Wright Patterson AFB.

By mid-1997 the EHUD had completed environmental testing and was prepared for flight evaluations and testing at the 422nd Test Wing located at Nellis AFB.

In mid-1998 flight testing was successfully completed by helicopter and fixed wing pilots. The EHUD's performance delighted the pilots by its adaptability.

Adding only 54 total grams to the NVG, BAE SYSTEMS achieves overall weight reduction with the insertion of commercial technology and the innovative way that we package the EHUD.

CG isn't an issue because it's mounted on the back of the goggle near the eye.

The high-speed digital data cable reduces cumbersome fiber optic cables to a weight as light and flexible as the mouse cable of a personal computer.

BAE SYSTEMS

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