

JEDEYE™ gives pilots a different perspective

With its ultra-wide field of view and razor-sharp images, JEDEYE™'s exciting features and unique lightweight design meet today's complex battlefield challenges and demands.

- Ultra-wide FOV (>80° x 40°)
- Ultra-high resolution (2250x1200 pixels; 2 flat panel displays) - better than HDTV!
- Binocular/monocular monochromatic display
- Visor display
- Eyeglass, sunglass, contact lens and NBC mask compatible
- No visual obscuration
- 3D display imagery
- Real-time image enhancements
- Picture-in-picture: fixed, pop-up or space stabilized
- Real-time sensor fusion and multi-sensor display
- Gentex HGU-56P and HISL ALPHA-900 compatible
- Meets all US safety procedures and standards
- Fully compatible with the Apache Block III Mission Computer, MTADS and IHADSS21 systems
- High accuracy roll compensated head tracker

Open both your eyes

"An HMD designer must develop a system which is capable of satisfying a large number of widely different and often conflicting requirements in a single system. Such design goals include but are not limited to the following:

- ✓ Maximum impact protection
- ✓ Maximum acoustical protection
- ✓ Maximum speech intelligibility
- ✓ Minimum head supported weight
- ✓ Minimum bulk
- ✓ Minimum CM offset
- ✓ Optimum head aiming/tracking accuracy
- ✓ Maximum comfort and user acceptance
- ✓ Maximum freedom of movement
- ✓ Wide FOV
- ✓ Minimum obstructions in visual field
- ✓ Maximum resolution
- ✓ High brightness and contrast
- ✓ No induced sensory illusions
- ✓ Hazard free
- ✓ Maximum crashworthiness
- ✓ 24-hour, all weather operation
- ✓ Minimum training requirements
- ✓ Low maintenance
- ✓ Low design cost and minimum schedule"

Quote from: USAARL, C. E. Rash (editor). Helmet Mounted Displays: Design issues for Rotary-Wing Aircraft book, p. 18.

JEDEYE™

Open both your eyes!



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JEDEYE™

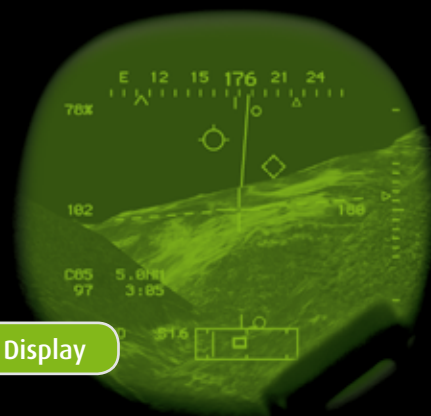
Field of view has taken on an entirely new dimension!

Elbit Systems' JEDEYE™ is the ultimate HMD, ideal for Apaches and other rotorcraft. JEDEYE™ lets pilots take in the entire scene.

Wider than ever areas of ground and sky are displayed with crystal clear, high resolution and crisp focus!

With JEDEYE™ there's a visible difference

The difference is in the field of view and the power behind the system. With unmatched performance, JEDEYE™ transports the pilot's view and capabilities to a new realm. End-to-end, JEDEYE™ addresses the special needs of helicopter pilots and does it better than any other HMD in the field.



Existing Display

Ultra wide field of view with the JEDEYE™ Display



Improved Situational Awareness

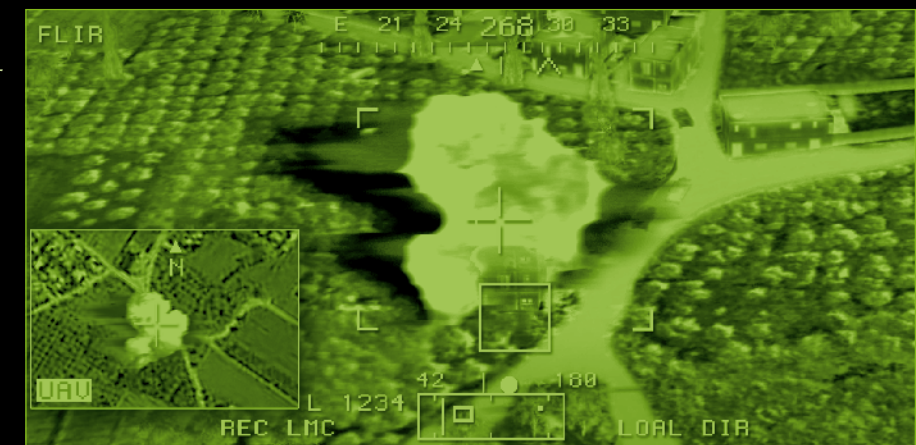
- High resolution image combined with wide FOV increases flight awareness
- Wider view improves recognition of flight obstacles and mitigates risks
- Near normal FOV with sharp image scenery eliminates "Tunnel Effect", Vertigo and other visual illusions
- Improved head tracker accuracy minimizes spatial disorientation



FLIR view

Enhanced Combat Effectiveness

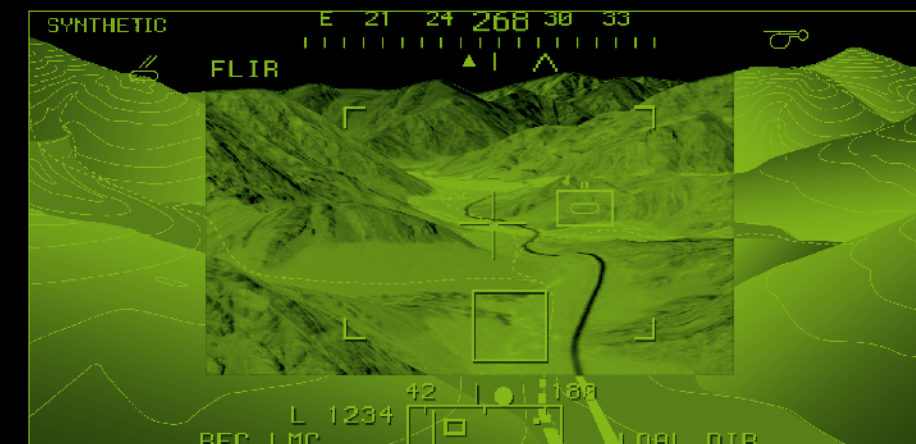
- Better target recognition
- Reduced time between sensor-to-shooter
- More accurate firing due to improved head tracker precision
- External real-time video data-link display
- Sensor display overlaid on the real world position (space stabilized) - picture in picture
- Enables flexible formation flight position



UAV live picture overlaid on FLIR view

Advanced Sensor Fusion

- Full cockpit view with no obscuration
- Real-time sensor fusion of a/c EOP video, UAV video, 3D synthetic vision system, radar video, head-down displays etc.
- Virtual cockpit/head-down display
- Supports "all weather helicopter" concept - virtual world



Synthetic vision