

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 meets today's complex battlefield challenges and demands.

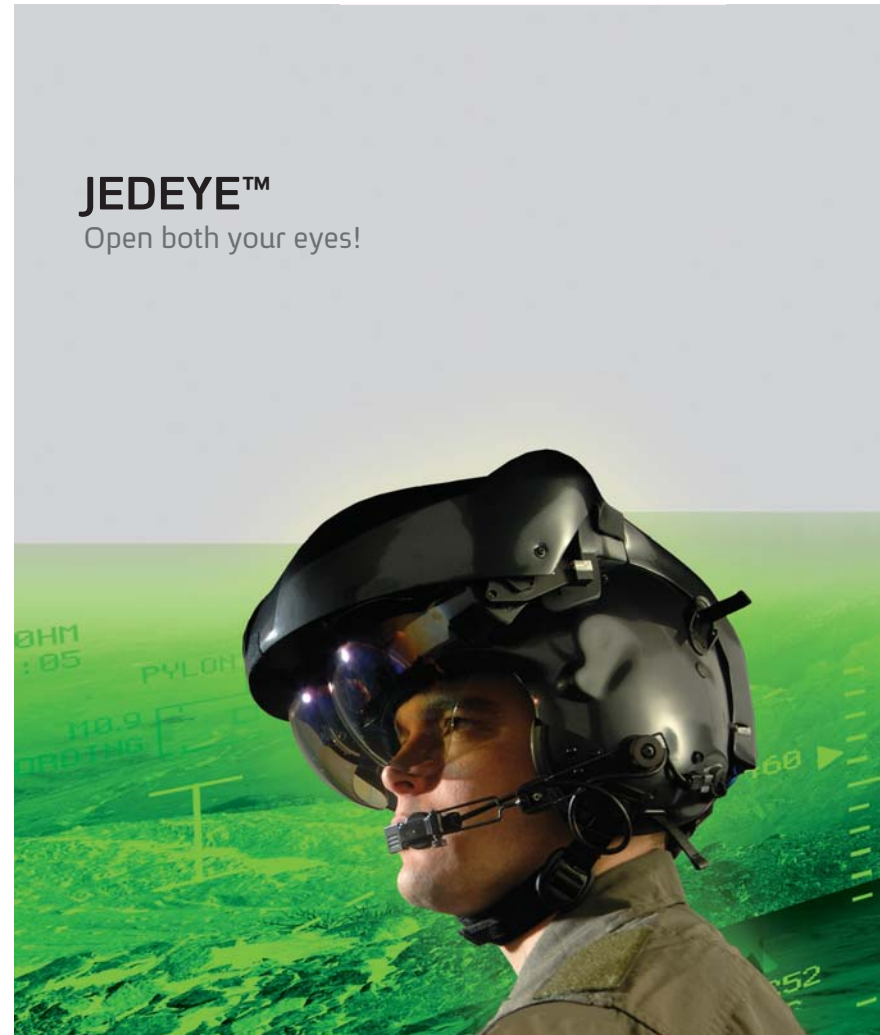
- Ultra-wide FOV (>80° x 40°)
- Ultra-high resolution (2250x1200 pixels; 2 flat panel displays) - better than HDTV!
- Binocular/monocular monochromatic display
- Visor display
- Eyeglass, sunglass, contact lens and NBC mask compatible
- No visual obscuration
- 3D display imagery
- Real-time image enhancements
- Picture-in-picture: fixed, pop-up or space stabilised
- 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 | ✓ High brightness and contrast |
| ✓ Maximum acoustical protection | ✓ No induced sensory illusions |
| ✓ Maximum speech intelligibility | ✓ Hazard free |
| ✓ Minimum head supported weight | ✓ Maximum crashworthiness |
| ✓ Minimum bulk | ✓ 24-hour, all weather operation |
| ✓ Minimum CM offset | ✓ Minimum training requirements |
| ✓ Optimum head aiming/tracking accuracy | ✓ Low maintenance |
| ✓ Maximum comfort and user acceptance | ✓ Low design cost and minimum schedule" |
| ✓ Maximum freedom of movement | |
| ✓ Wide FOV | |
| ✓ Minimum obstructions in visual field | |
| ✓ Maximum resolution | |

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



JEDEYE™

Field of view has taken on an entirely new dimension!

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!

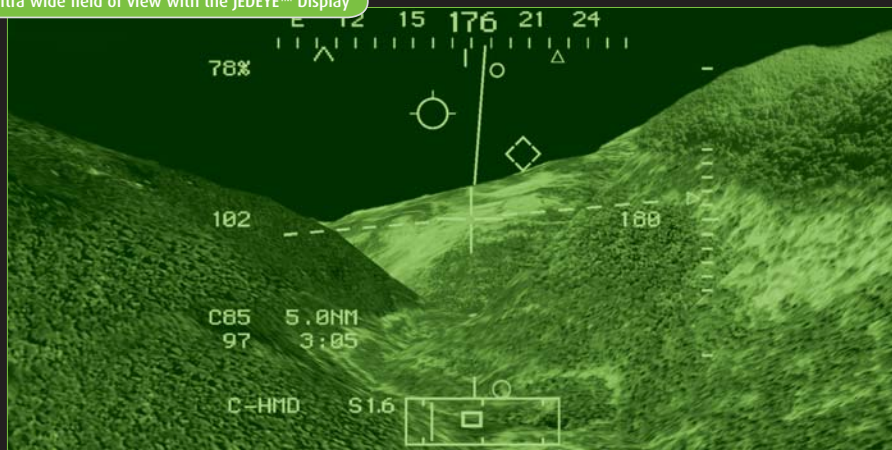
With JEDEYE™ there's a visible difference

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 risk
- Near normal FOV with sharp image scenery eliminates "Tunnel Effect", Vertigo and other visual illusions
- Improved head tracker accuracy minimises spatial disorientation



FLIR view

Enhanced Combat Effectiveness

- Better target recognition
- Reduced time between sensor-to-shooter
- Greater weapon accuracy due to improved head tracker precision
- External real-time video data-link display
- Sensor display overlaid on the real world position (space stabilised) - 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