X-SIGHT

AUGMENTED REALITY VISOR

KEY BENEFITS

- Wide field of view
- High-resolution video
- Dual-eye Binocular Display
- Variable Transmittance Day/Night Visor
- Compatible with Night Vision Cameras
- Compatible with Corrective Lenses
- Compatible with standard, Off-The-Shelf military helicopter helmets

FLY SMARTER. FLY SAFER. FLY CONFIDENT.

With an unparalleled field of view and high-resolution, color binocular display, X-Sight leverages multiple sensor inputs to create an intuitive view of the aircraft's operational environment. X-Sight creates intuitive, 3D conformal symbology and Synthetic Vision Symbology (SVS) by fusing active sensor data with tactical flight and mission data with visual sensor imagery with near-zero latency. It also delivers 'transparent cockpit' functionality, allowing pilots to see beyond cockpit boundaries, displaying a 360-degree view with no visual obstacles, increasing survivability, mission effectiveness and safety.

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X-SIGHT
AUGMENTED REALITY VISOR

ULTIMATE FLIGHT VISION TECHNOLOGY

X-Sight provides pilots with intuitive georeferenced symbology on a panoramic display overlaid on the world outside the cockpit providing a Heads up Eyes Out system. The unified picture is comprised of real and synthetic information, including aircraft visual sensors, night vision sensor, Distributed Aperture Systems (DAS), Electro-Optic Payloads (EOP), and X-Sight's own integrated night vision camera. X-Sight completes the real world view with applications such as Synthetic Vision Symbology (SVS), Low Visibility Landing (LVL) symbology, obstacle awareness, collision avoidance, flight and mission symbology, and virtual training. Layers of information are presented on the X-Sight advanced display delivering improved situational awareness.

OPERATIONAL BENEFITS

DISPLAY

- Binocular display simplifies usability and minimizes learning curve
- Peripheral vision enhances mission efficiency and safety
- Proprietary photochromic technology changes visor transmittance according to light exposure, even behind the cockpit canopy

MODULE

- Integrated night vision camera with sophisticated image processing enables night operation independent of external sensors or NVG
- Unique design and lightweight structure reduce physical burden and improve center of gravity
- Market leading, robust & accurate hybrid helmet tracker synchronizes pilot's real-time line-of-sight with sharp, high-quality synthetic imagery
- Detachable module improves flight safety and reduces number of required units

DATA FUSION: UNIFICATION & SYNTHESIS OF ALL SENSORS & DATA SOURCES

- Enhanced multi-layered presentation reduces pilot workload and improves situational awareness
- Advanced navigation assistance creates a virtual landing zone in difficult terrain
- Deep learning algorithms enable real-time obstacle detection, classification and warning

TECHNOLOGY AT A GLANCE

DISPLAY

- Binocular color display with wide Field of View (FOV) - 62°x30°
- High resolution - 1920x1200 pixels
- Voice & tone warning
- Variable Transmittance Visor (VTV)

MODULE

- Integrated night vision camera
- No visual obscuration
- Detachable module
- HGU-56P compatible
- Low-latency, level A certifiable hybrid tracker
- Tri-mode capable tracker to include magnetic inertial, and optical

DATA FUSION

- Near-zero latency image processing
- 3D imagery
- Synthetic Vision Symbology (SVS) capabilities

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