

Scorpion[®] Helmet Mounted Display for fighter aircraft



Scorpion[®] for Fighter Aircraft

Improving situational awareness for precise target designation

- 24/7 Full-color conformal symbology
- Enhances operational synchronization
- Improves situational awareness
- Minimal footprint
- Combat proven

The military theatre is a complex dynamic operating environment. Efficient target designation and effective response capabilities require enhanced, consistent vision to increase mission success and reduce risk during enemy engagement.

Leveraging 30 years' experience of developing military HMD systems, Thales presents Scorpion, the world's first and only full-colour HMD. Scorpion delivers off boresight, eyes-out capability using visual graphic cues layered over digital maps augmenting external reality. Even when objects may be obscure from naked-eye view, an accurate 3D image of the 360 environment is projected directly to the near-eye monocular display. The detailed information enables immediate distinction between identified enemy and friendly targets, or other selected features.

Data is simultaneously delivered to aircrew and ground command and control enabling immediate, intuitive interpretation. Heightened situational awareness enhances operational efficiency enabling precise designation for accurate, rapid, real-time threat elimination maintaining crew safety.

With Scorpion you'll successfully identify, designate and eliminate all adversarial threats.

Combat proven, robust, reliable, consistent vision comfortably delivered

Scorpion uses digitized hybrid optical inertial tracking technology, HOBIT, to more accurately track pilot head movement. Combined with full-color conformal symbology augmented reality replicates the immediate environment. Compared to magnetic based systems, Scorpion produces an unparalleled consistency of vision and accuracy to maintain situational awareness even in the harshest environment. The unit features standard NVG compatibility to deliver superior full-color display switching from day to night functionality with exceptional ease.

Compatibility with Ethernet, 1553 and datalink connections enables air and ground assets to identify, exchange, share and visually display critical target information in real time, simultaneously for a coordinated tactical response.

Portable, lightweight and comfortable, the Scorpion footprint is the smallest in the military sector allowing more flight-deck space for other essential equipment. The customizable software and ease of sticker constellation implementation facilitates simple installation. Scorpion provides the ultimate in powerful accurate, eyes out targeting for the lowest procurement, integration and life-cycle costs to inform practical, strategic decision making for every combat mission, every time.



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