

IronVision™

'See-Through' Head-Mounted Display technology for 360° situational awareness and advanced operation of Armored Fighting Vehicles





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Elbit Systems' legacy 'see-through' aerospace technology, applied in a closed-hatched armored vehicle environment

Full 360° Situational Awareness Under Closed Hatches

By introducing Elbit Systems' world-renowned aerospace Helmet-Mounted Display (HMD) technology into the armored vehicle, IronVision generates an image that enables the crew to 'see through' the vehicle's armor. This unparalleled advancement provides 360° situational awareness, day and night, helping the crew overcome inherent visibility limitations, while improving mission efficiency and safety.

The system transmits real-time, Zero-Latency™, high-resolution video to the commander and/or driver display, providing a natural, bi-ocular, colored HD conformal view of the vehicle's surroundings, together with relevant symbology and C4I data. At the click of a button, the video feed can be switched to display weapon sights, UAS video, embedded mission simulator or any other video source.

An Intuitive, Conformal Image of the World Outside

IronVision is able to utilize pre-loaded terrain and obstacle information, combined with smart, intuitive symbology and data anchoring, to display all the information required, simultaneously to the various crew members. Leading HMD technology and an advanced distortion-correction algorithm eliminate visual distortions and prevent motion sickness that is often caused by the moving armored vehicle.

By presenting the crew with a single, unified, intuitive image of the world outside the vehicle, IronVision relieves the crew of the mental load of having to interpret data from multiple sources, allowing them to utilize their situational awareness more efficiently, and focus on the successful completion of their mission, from a secured setting within the armored vehicle.



Enhanced Training Realism

By incorporating a layer of advanced Augmented Reality, IronVision can serve as a 'true-to-life' training system. The addition of Elbit Systems' patented ARTIST™ - Augmented Reality Integrated Training System - introduces sophisticated, high-fidelity operational scenarios with

extreme combat accuracy. These scenarios present an optimal, cost-effective training method for the operational crew, which until now has only been possible through live training.

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Key Features

- Real-time, Zero-Latency™, high-resolution, full-color video feed of the vehicle surroundings
- Seamless 360° line-of-sight
- Training capabilities through AR and VR technology
- Intuitive symbology
- Cost-effective, lightweight and compact
- NVG-like stow mechanism
- Look-Lock-Launch
- Advanced distortion-correction algorithm eliminates visual distortions and prevents motion sickness
- Day & Night



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