Torch-X™ Dismounted
Augmented reality capabilities

Torch-X Dismounted provides see-through situational awareness capability designed to present real-time content on display screens and wearable devices. Implementing augmented reality (AR) in the tactical domain, the solution enhances the perception of a real-world environment with supplementary audio/visual content. Symbology and imagery are overlaid on a view of the current physical environment, projected onto the screen of a mobile computing device (smartphone or tablet), head-mounted display, goggles, or other AR-supported devices.

Operational capabilities

Torch-X Dismounted features an intuitive tactile user interface. The application provides a 360° on-screen display including blue force tracking capability, enabling the soldier to retain eye contact for situational awareness while on-the-move, driving and during night operations. The application performs line-of-sight (LOS) and precise participant location and identification (PPLI) calculations. Torch-X Dismounted may be enhanced to provide instant identification and registration of images to a 3D imagery database and can integrate with the full suite of Elbit Systems' Torch-X solutions. Torch-X Dismounted is suitable for a wide range of tactical missions, enhancing the combat effectiveness, performance and survivability of dismounted soldiers.

Torch-X Dismounted

Augmented reality capabilities

Key Features

- BFT recognition
- Wireless
- 360° display
- Android-compatible
- Intuitive tactile UI
- Interfaces with 3rd party applications
- LOS and PPLI calculations

Key Benefits

- Day/night on-the-move situational awareness
- Integrates with Elbit Systems' full Torch-X suite/ HQ systems

Displaying Blue Force Tracking and Track entities in the user Field Of View

Awareness ellipse: enables the user to learn Blue Force Tracking and Enemy entities in his surrounding section

Creating a track: Elbit Systems' 3D Smart Location Algorithm enables the user to create accurate targets and distribute them to the network

Create Track

Heading (MILS)

Elbit Systems AR Dismounted Solutions

| Raptor | SmartEye | SmartNVG | SmartSight | SmARt2Eyes |

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