

SmartNVG

Tactical Augmented Reality for the dismounted soldier



Part of Elbit Systems' DOMINATOR™ integrated warrior combat suite, SmartNVG is an add-on to most existing NVG's providing monocular see-through augmented reality symbology and imagery to the soldier. Comprised of processing, control and display units, SmartNVG can be equipped with two different display modules – the night display module (NDM), the color night display module (CNDM). SmartNVG can receive data or video input through an HDMI source or via an Android device.

Helmet mountable, the HUD (head up display) is comprised of a flat panel electro-optical device that incorporates a miniature high resolution Organic LED (OLED) source display unit. The unit superimposes navigation and C² data on any vision imaging system, delivering an advanced augmented reality solution for a wide range of tactical missions.

Elbit Systems™

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Key Features

- Dimensions: (L) 80 mm × (W) 60 mm × (H) 35 mm
- Video Inputs: HDMI and mirroring
- External communication interfaces: USB and RS-232
- Power input: 4.5V to 17V
- Internal rechargeable battery
- Internal GPS and antenna
- Supports various video outputs
- Supports various night vision goggles

Display Modules



Night Display Module

- FOV 40° (standard night vision goggles)
- Symbology field of view: 18°
- OLED display: 852 x 600 pixels
- Active area: 12.8mm x 9 mm
- Monochrome green
- Head unit weight: 0.095kg



Color Night Display Module

- Overlays color symbology on to the NVG eyepiece
- FOV 40° (standard night vision goggles)
- Symbology field of view: 23°
- Monocular (left or right)
- OLED display: 800 x 600 pixels
- Active area: 12.8mm x 9 mm
- Full color
- Head unit weight: 0.055kg



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