

Integrated Digital Vision System



The most advanced, fully digital head-worn system available that fuses multispectral night vision sensors with situational awareness information to support day, night and degraded visual environments.

Ground-based warfighters now have visual dominance, day or night, that provides situational awareness like never before, combining data information and multispectral inputs that are digitally fused together.

The helmet-mounted Integrated Digital Vision System (IDVS) provides head-up, hands-free situational awareness, giving warfighters the information they need to make better, faster decisions and reduce workload as they carry out their missions.

IDVS combines low-light image processing with digital and synthetic data to enhance situational awareness in all visual

conditions. It equips the soldier to “see through” visually degraded environments such as low light or no light, as well as smoke, dust storms and fog.

The optical system enables a seamless transition between high and low visibility levels, eliminating the need to remove the visual display as conditions change. In addition, its wide field of view and transparent optics allow the user to maintain normal peripheral vision in all situations.

Using feedback and technology validation by experienced operators, Rockwell Collins has engineered breakthrough capability that improves the warfighter’s mission effectiveness, survivability and lethality.

KEY FEATURES/ BENEFITS

- › Equips the warfighter with superior situational awareness in all battlefield environments, regardless of weather, light levels or obscurants

- › Higher range of D/R/I through low-light image processing, visual noise reduction and digital enhancement
- › Enables export and import of digital data and video such as compass heading and map displays
- › Conformal design improves ergonomics and enables hands-free operation
- › Human-machine interface reduces operator workload with highly automated processing
- › Wide (40-degree) field of view and transparent optics do not affect peripheral vision
- › Easily upgradable growth path through programmable, open system architecture

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SPECIFICATIONS

Fused digital sensor and display system

- › Two low-light VIS/NIR sensors
- › One long-wave infrared (LWIR) thermal sensor
- › 40-degree horizontal field of view with full digital fusion

Transparent display

- › Flip-up feature
- › IPD adjustable
- › WUXGA resolution

Quick helmet mounting

- › Mounts to standard night-vision-goggle shroud
- › Ops-Core, Crye Precision AirFrame™ and ACH compatible

Custom battery pack

- › Four 18650 batteries (providing up to six hours of operation in full sensor fusion mode) or eight CR123 batteries
- › External power input
- › Expandable input/output and processing for growth capabilities

Next generation vision capabilities – here today.

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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