



ERV-40 ENHANCED REALITY VISION SYSTEM

INSTANT SITUATIONAL AWARENESS

Providing affordable, lightweight augmented reality

Now, ground soldiers can gain the advantages of the same technology once found only in the head-up displays (HUDs) of elite fighter aircraft and in commercial jets. The Collins Aerospace Enhanced Reality Vision system (ERV-40) is a lightweight, wearable waveguide display that mounts onto the warfighter's helmet or goggles and can deliver a variety of digital information to the user's forward field of view.

Collins ERV-40 technology uses an advanced digital process that brings augmented-reality capability to a polycarbonate-protected display that is roughly the size and shape of an eyeglass lens.

Information from your applications feeds into the ERV-40 and the waveguide projects it through the clear display.

The user gets instant situational awareness updates without the distraction of looking away from what's happening in forward and peripheral environments. Our ERV-40 eliminates the head-down to head-up switching and longer refocusing time associated with traditional handheld displays.

With decades of experience serving military customers around the globe, we understand your most important requirements for wearable soldier systems. Our ERV-40 is backed by our proven expertise in HUD technologies, so you can count on its outstanding reliability and performance.



KEY FEATURES & BENEFITS

- Conformal packaging and large viewing area provide fast alignment and easy fit, enabling a true visor HUD for the soldier
- Large eye box with extended eye relief
- Full red/green/blue (RGB) color
- Displays information such as data, maps, external video or wireless weapon sights
- Ultra-low distortion of the transparent lens enables unobstructed vision for hands-free operation, day and night
- Polycarbonate external cover plate

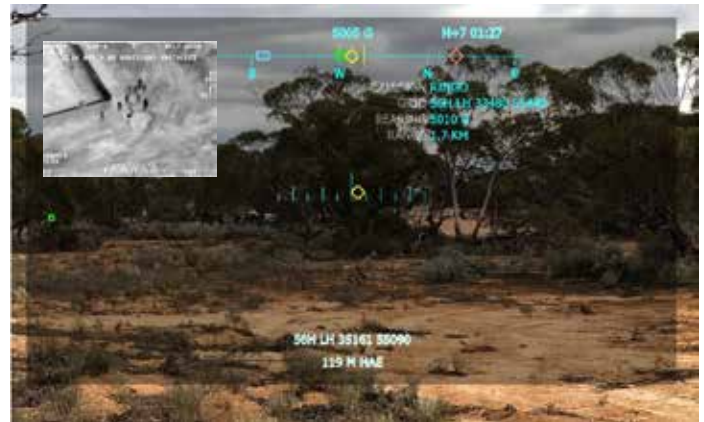




ERV-40M



ERV-40B



Visual and Graphic data Fusion

SPECIFICATIONS

Field of view (FOV)	Display FOV 40° diagonal
Focal distance	Infinity
Eye box size	18mm H x 12mm V
HD resolution	720P
Eye relief	20 mm (compatible with eyeglass use)
Color	Full RGB
Maximum brightness	500 fL (output to eye)
ANSI contrast ratio	30:1
See-through transmission	>80%
Display system weight	175 grams (monocular) 275 grams (binocular)
Display system power	< 3 Watts

INTERFACES

- HDMI video
- USB power

INSTALLATION/WEARABILITY

- Shroud mount available
- Optional head tracker
- Custom mounting available

USABILITY

- Information displays with readability in day or night conditions
- Hands-free operation
- Instantaneous app data delivery capability

Specifications subject to change without notice.



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