



ERV-30 ENHANCED REALITY VISION SYSTEM FOR MOUNTED APPLICATIONS

AUGMENTED AWARENESS

Easily installed for mounted crews

The ERV-30 enhanced reality vision system for mounted applications delivers essential data to a wearable display mounted to your combat vehicle crewman's (CVC) helmet. The display delivers a variety of mission-critical digital data to the user's forward field of view.

This near-eye display provides the same technology once found only in elite fighter aircraft and commercial jet head-up displays (HUDs). ERV-30 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. The ERV-30 gives crewmen the advantage with minimal vehicle impact.

Your data applications feed information into the ERV-30 and the waveguide projects it through the clear display mounted to the CVC's helmet. The crewman gets real-time situational awareness without interfering with normal vision. The ERV-30 eliminates the head-down to head-up switching and the longer refocusing time associated with traditional, vehicle mounted displays.

Collins Aerospace understands your most important requirements for wearable mounted crewman systems. The ERV-30 benefits from our decades of experience in HUD technologies serving military customers around the globe. You can count on its outstanding reliability and performance.



KEY FEATURES AND BENEFITS

- Fast alignment and easy fit enable a true visor HUD
- NBC protective mask compatible with extended eye relief
- Full red/green/blue (RGB) color and picture-in-picture (PIP) display
- Ultra-low distortion of the lens for unobstructed day and night vision
- Minimal vehicle system size, weight and power impact
- Instantaneous app data delivery capability
- Polycarbonate external cover plate for safety
- Hands-free operation



SPECIFICATIONS

Field of view (FOV)	Display FOV 25° diagonal, portrait mode
Focal distance	Infinity
Eye box size	18 mm H x 14 mm W (0.7" H x 0.55" W)
Input resolution	WVGA 854 x 480 (nHD native resolution)
Eye relief	25 mm (compatible with eyeglass use)
Color	Full RGB
Maximum brightness (output to eye)	>1,000 fL
Contrast ratio	>200:1 sequential, >15:1 ANSI
Waveguide see-through transition	>80%
Weight	Display 89 grams

INTERFACES

- HDMI video
- USB power
- MIL-SPEC interface available
- Wireless interface potential

MOUNTING OPTIONS

- Accessory rail mount available
- Optional head tracker
- Custom mounting available



CVC mounted display



Visual and graphic data fusion

Specifications subject to change without notice.



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