

Rockwell Collins Future Force Warrior Headgear System



Rockwell Collins has developed an advanced concepts technology development headgear system for the Army FFW program. The integrated headgear system features enhanced fused video of thermal and/or image intensified sensor cameras, a new ballistic shell, drop down eye-wear and Land Warrior system compatibility.

KEY APPLICATIONS

- > Provides fused multi-spectral video for enhanced target detection
- > Provides the soldier with night and urban mobility and increased situational awareness
- > Displays various sensor, map, GPS, and data information

FEATURES

- > Digitally fused long wave infrared and high resolution image intensifying / near infrared cameras
- > Display of enhanced, fused imagery from cameras
- > Full color Monocular SVGA OLED display
- > Selectable helmet borne IR illumination
- > USB digital video and audio interface
- > Enhanced hearing and eye protection
- > Accommodates all helmet sizes

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PERFORMANCE PARAMETERS

CAMERAS

| | |
|------------------------|---------------------------------------------------------------------------------------|
| I ² Camera: | 1280 x 1024 FPA 30 Hz Frame Rate F/1.3 EBAPS Technology 40 deg HFOV |
| LWIR Camera: | 320 x 240 FPA 60 Hz Frame Rate F/1.0 8-12µm 40 deg HFOV |
| Fusion: | Color digital fusion with image correction 60 Hz User selectable alpha and beta |

DISPLAY

| | |
|---------------------|--------------------------------------------------|
| Image Source Type: | Full Color AMOLED 800 (x3) pixels x 600 lines |
| Resolution: | 2.1 arcmin/color group |
| Luminance: | 1-35 foot-Lamberts |
| Contrast: | >100:1 |
| Horz Field of View: | 40 deg |
| Optics: | Plastic aspheric lens |
| Eye Relief: | Eyeglass compatible, >25mm |

SYSTEM

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Power: | +8V to +33VDC 9.2W-10.5W 2 Sensor, Fusion Mode 6-7W 1 Sensor, No Fusion 3.2W Computer Video/Audio Only |
| Inputs / Outputs: | PAN Cable (USB Control, Video and Audio / Power) Front Housing Switches: Fusion Mode, Wht/Blk Sel, IR LED On/Off Audio Headset |
| Env of XL Helmet: | Height 4.75" 77.5 mm Width 2.5" 113.0 mm Length 13.5" 35.0 mm |
| Weight: | Display Module + Electronics Housing 2.2 Lbs |
| Mounting: | Tension clip attachment to FFW and ACH (planned) Helmets |

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Rockwell Collins delivers smart communication and aviation electronics 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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