

## APPLICATIONS

- ▶ Wide field-of-regard (180°) for responsive local situational awareness
- ▶ Enhanced Driving Aid

## KEY BENEFITS

- ▶ High performance long-wave infrared uncooled thermal imager
- ▶ Colour enabled day camera
- ▶ Enhancement algorithms for optimum image quality and identification tasks
- ▶ Day and night operational effectiveness
- ▶ Industry leading sensitivity to detect suspicious activity including buried hazards
- ▶ Proven superior performance in difficult atmospheric conditions including fog or rain
- ▶ Steerable Sensor Module (SSM)
- ▶ Hermetic design with no exposed moving parts
- ▶ Maximum Exportability



## ROCVE SB / DB Remotely Operated Crew Vision Enhancer Single / Dual Band Sensor





## ROCVE SB / DB

### Remotely Operated Crew Vision Enhancer Single / Dual-Band Sensor

#### OVERVIEW

The Remotely Operated Crew Vision Enhancer sensor is a compact and versatile imaging system ideal for 360° situational awareness (using two sensor modules), and/or driver's vision enhancement.

The ROCVE SB/DB steerable sensor module uses an internal motorized pan mechanism that can be remotely and rapidly set to any of three azimuth positions, namely a forward position combined with two side views, to give a responsive 180-degree total field-of-regard.

The dual band module is equipped with a sensitive thermal imager as well as colour/low light visible camera. This combination allows enhanced visibility and threat identification awareness 24-hours per day in all types of weather conditions.

The ROCVE SB/DB sensor interface is functionally backwards compatible with all previously fielded Remotely Operated Driver's Vision Enhancer (RODVE) modules, and is designed to work with all Compact Display and Control Modules (CDCM) or to control image and functionality. Up to two ROCVE SB/DB sensors can be powered and controlled by the CDCM that uses a high resolution AMLCD type of display (15:9 aspect ratio) to minimize overall dimensions.



#### SPECIFICATION

**SPECTRAL BAND:**

- 8-12  $\mu\text{m}$

**IR DETECTOR:**

- Microbolometer UFPA 640 x 480, 1024x768

**IR CAMERA FOVS:**

- 60° x35°

**FOCUS:**

- Athermalized, Focus Free, 3m to Infinity

**INPUT POWER:**

- MIL-STD-1275 compliant 28 VDC vehicle supply

**VIDEO OUTPUT:**

- EIA-RS-170A (30 Hz) or CCIR (25 Hz)

**VIBRATION:**

- MIL-STD-810E, Table 514.4 All

**BLOWING SAND & DUST:**

- MIL-STD-810, Test 510.3

**OPERATIONAL TEMPERATURE RANGE:**

- -40°C to +55°C

**OVERALL SENSOR DIMENSIONS (mm):**

- W: 145, H: 150, D: 130

**WEIGHT (g):**

- ~2750

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