

KEY BENEFITS

- ▶ Compact and versatile "Chassis Mount" design suitable for all military vehicles
- ▶ Steerable Sensor Module (SSM)
- ▶ Very fast motorized pan rate
- ▶ Used as part of a suite of sensors, as a local situational awareness system
- ▶ Designed as a hermetic entity with no exposed moving parts
- ▶ Maximum exportability



RODVE AND RODVE-D Remotely Operated Driver's Vision Enhancer and Digital





RODVE AND RODVE-D

Remotely Operated Driver's Vision Enhancer - Digital

OVERVIEW

RODVE is a compact and versatile sensor system ideal for driver's vision enhancement, rear or reversing camera applications, or general situational awareness.

The Remotely Operated Driver's Vision Enhancer has been designed to fit into tactical and armored combat vehicles that have moderate to high space and weight limitations, but still require an enhanced degree of situational awareness during closed-hatch and high-risk operations.

This thermal imager has both enhanced sensitivity for night viewing and new powerful sensor electronics with non-linear AGC (Automatic Gain Control) suitable for high dynamic scenes day or night.

The Steerable Sensor Module (SSM) for the RODVE is a single sealed enclosure. The SSM encloses a motorized pan mechanism that can be remotely set to any of three azimuth positions; a forward position providing 50 degrees FOV is combined with two side views (50 degrees FOV) ± 45 degrees from the straight ahead position.

Up to two digital uncooled sensor modules can be driven by Thales' Compact DCM design that uses a high resolution (800 x 480) AMLCD type of display to minimize overall dimensions. The thermal image is displayed in monochrome, black and white mode (gray levels). Thales Canada employs a proprietary method to smooth gray level transitions that significantly improves image quality for this display. The display has provision for up to two analog video outputs. All video inputs as well as camera settings are selectable from the display main controls mounted on the DCM's back panel. Embedded into the casting, these controls are designed to minimize overall display dimensions and preclude accidental actuation.

SPECIFICATION

SPECTRAL BAND:

- 8-12 μm

DETECTOR:

- Microbolometer UFPA 640 x 480, 1024 x 768

OPTICS F#:

- 0.8

FOV:

- 40° x 30°, 50° x 37.5°

H-FOR:

- 120°, 140°

FOCUS:

- Athermalized, Focus Free, 5m to Infinity

INPUT POWER:

- 1275 compliant 28 VDC vehicle supply

VIDEO OUTPUT:

- EIA-RS-170A or CCIR set trough serial interface

OPERATING TEMPERATURE RANGE:

- -40°C to +50°C

VIBRATION:

- MIL-STD-810E, Table 514.4 All

BLOWING SAND & DUST:

- MIL-STD-810, Test 510.3

SSM DIMENSIONS (mm):

- W: 140, H: 118, D: 136

DISPLAY DIMENSIONS (mm):

- W: 261, H: 172, D: 44



Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and the specification of this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or services.