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
Remotely Operated Driver’s Vision Enhancer

Now available in 12 μm variants
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 powerful sensor electronics with non-linear AGC (Automatic Gain Control) suitable for high dynamic scenes day or night.

RODVE is a single sealed enclosure that employs a motorized pan mechanism that can be remotely set to any of three azimuth positions; a forward position providing 40 or 50 degrees FOV is combined with two equivalent side views +/- 45 degrees from the straight ahead position.

Up to two (analog or 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 640x480, 1024x768, 1280x1024

FOV:
- 40° x 30°, 50° x 37.5°

H-FOR:
- 120°, 140°

FOCUS:
- Athermalized, Focus Free, 5m to Infinity

INPUT POWER:
- 12 VDC or 1,275 compliant 28 VDC vehicle supply

VIDEO OUTPUT:
- Analog (all), LVDS, Ethernet, SDI

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