KEY BENEFITS

- Compact and versatile family of thermal imaging cameras.
- Can be used in a multi-sensor array, for vehicle situational awareness or border surveillance applications.
- Ideal as a thermal reversing camera on military vehicles.
- Designed and made for use in all environmental conditions.
- Continuously operable at ambient temperatures from -40°C to +50°C, even during exposure to solar radiation.
- Qualified to vibrations and shocks typically associated with military vehicle operations.
- PAL / NTSC video configurations available in choice of digital or analog outputs.

VEM
Vision Enhancer Module
**OVERVIEW**

VEM is a compact, versatile and sensitive thermal sensor module that can be used in a multi-sensor network, for vehicle situational awareness or border surveillance applications, target detection and improved Infantry Carrier Vehicle mission capabilities. It allows the troop Commander to observe short-range activities during daylight, darkness, adverse weather and dirty battlefield conditions.

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.

The compact design fits easily into the smallest space envelopes. It is also available with a motorized wiper system and flexible mounting interfaces.

When used with a DVE Display Control Module (DCM), VEM operates as a full-function Driver’s Vision Enhancer (DVE). The Compact DVE DCM design 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). The DCM has provision for input / output connections with full controls to two sensor modules as well as two additional analog inputs. The DCM enables both alphanumeric and complex graphics color images to be overlaid onto system video with a resolution of at least 640 x 480.

**SPECIFICATION**

SPECTRAL BAND:
- 8-12 μm

DETECTOR:
- Microbolometer UFPA 640 x 480, 1024 x 768 or 1280 x 1024

FOV:
- 13°, 27°, 40°, 50°, 60°, 90° and others

FOCUS:
- Athermalized Focus Free

INPUT POWER:
- 12 VDC or 1275 compliant 28 VDC vehicle supply

VIDEO OUTPUT:
- EIA-RS-170A or CCIR set trough serial interface, digital LVDS, 720p

OPERATION TEMPERATURE RANGE:
- -40°C to +50°C

VIBRATION:
- MIL-STD-810E, Table 514.4 All

BLOWING SAND & DUST:
- MIL-STD-810, Test 510.3

SENSOR MODULE DIMENSIONS (mm):
- W: 58, H: 58, D: 88 (depending on options / configurations)

SENSOR MODULE WEIGHT (g):
- 580 (depending on options / configurations)