KEY BENEFITS

- Very wide field-of-view for maximum situational awareness in urban and complex environments.
- Compatible with high definition detectors.
- Responsive and precise autofocus function.
- TIM family functionality and interface compatibility.
- Uncooled reliability, greater than 30,000 hours.
- Maximum exportability, free from ITAR restrictions.

TIM-TR DFOV
Thermal Imaging Module – Tactical Range Dual Field-of-View
OVERVIEW

TIM-TR DFOV is a passive Thermal Imager (TI), operating in the 8-12 μm wavelength region of the IR spectrum, using state-of-the-art SD or HD Uncooled Focal Plane Arrays.

Thales’ TIM-TR DFOV revolutionizes RWS thermal imaging by providing a versatile and functional optical dual FOV imager.

TIM-TR DFOV includes a very wide horizontal field-of-view (20°) that provides over four times scene situational awareness along with twice the sensitivity of conventional DFOV imager designs. Detection and engagement ranges are maximized by means of a responsive 3X optical zoom.

TIM-TR DFOV employs powerful sensor electronics combined with an efficient opto-mechanical sub-assembly to provide the most versatile and lightweight DFOV imager for RWS applications on today’s market.

Thales Canada, Defence and Security, Optronics supplies TIM products for integration on remote weapon stations, missile launchers and surveillance applications.

SPECIFICATION

SPECTRAL BAND:
- 8-12 μm

IR DETECTOR:
- Microbolometer UFPA 1280 x1024, 1024 x 768 or 640 x 480

NARROW HORIZONTAL FOV:
- SXGA variant 5.9°
- XGA variant 6.7°
- VGA variant 4.2°

WIDE HORIZONTAL FOV:
- SXGA variant 18°
- XGA variant 20°
- VGA variant 13°

FOV CHANGEOVER:
- < 600 ms, < 5 mrad

FOCUS:
- 20 m to infinity (narrow)
- 5 m to infinity (wide)

DETECTION RANGE*:
- > 9,500 m

IDENTIFICATION RANGE*:
- > 2,700 m

WEIGHT:
- < 3.0 kg

DIMENSIONS (mm):
- 136 W x 196 L x 136 H

INPUT POWER:
- 12 VDC or 28 VDC vehicle supply

VIDEO OUTPUT:
- 720p, EIA-RS-170A, CCIR or LVDS

COMMUNICATION DATA LINK:
- RS-422 up to 115,200 bauds

POWER CONSUMPTION:
- <18 Watts (max)

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

* Performance according to NVThermIP NATO TANK 2.3 m x 2.3 m, ΔT = 2K for 640x480 variant.