KEY BENEFITS

- Very wide field-of-view for maximum situational awareness in urban and complex environments.
- Powerful (4X) optical narrow field-of-view for enhanced identification and accurate aiming.
- TIM family functionality and interface compatibility.
  - Compatible with high definition detectors.
- Responsive and precise autofocus function.
- Uncooled Reliability greater than 30,000 hours.
- Maximum exportability, free from ITAR restrictions.

TIM-LR
Thermal Imaging Module – Long Range Dual Field-of-View
**TIM-LR**

Thermal Imaging Module – Long Range Dual Field-of-View

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**OVERVIEW**

TIM-LR is a passive Thermal Imager (TI), operating in the 8-12 μm wavelength region of the IR spectrum, utilizing state-of-the-art small-pitch Uncooled Focal Plane Array detectors (UFPA).

TIM-LR employs an innovative opto-mechanical sub-assembly to provide the most sophisticated long-range dual field-of-view imager for RWS applications on today’s market. This thermal imager has both enhanced sensitivity for night viewing and powerful sensor electronics.

TIM-LR provides unsurpassed range performance, (uncooled technology) while including a very wide (20°) field-of-view with over four times the scene situational awareness compared with conventional imagers.

Recognition and engagement ranges are maximized by means of a responsive 4X optical zoom employing a patented mechanism that does not negatively impact sensor weight or volume.

Thales Canada Defence and Security, Optronics supplies TIM Products for integration on Remote Weapon Stations and long range surveillance applications.

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**SPECIFICATION**

**SPECTRAL BAND:**
- 8-12 μm

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

**HORIZONTAL NARROW FOV:**
- SXGA variant 4.3°
- XGA variant 5°
- VGA variant 3.1°

**HORIZONTAL WIDE FOV:**
- SXGA variant 17.3°
- XGA variant 20°
- VGA variant 12.2°

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

**DETECTION RANGE*:**
- > 10,000 m

**IDENTIFICATION RANGE*:**
- > 3,000 m

**WEIGHT:**
- 5.2 kg

**DIMENSIONS (mm):**
- 180 W x 274 L x 171 H

**INPUT POWER:**
- 28 VDC vehicle supply

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

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

**POWER CONSUMPTION:**
- < 20 Watts (max)

**OPERATIONAL TEMPERATURE RANGE:**
- -40°C to +50°C

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