KEY BENEFITS

- Large field-of-view suitable for maximum situational awareness in urban and complex environments
- Up to 4X E-Zoom for responsive target localization and long range engagement
- PAL / NTSC (VGA variant)
- High Resolution 720p video interface (XGA variant)
- Uncooled Reliability greater than 30,000 hours MTBF
- Maximum Exportability

TIM-UL
Thermal Imaging Module Ultra Lite
OVERVIEW

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 caused by sun or fire within the imager field-of-view.

Thales’ new TIM ULTRA LITE revolutionizes medium to short range RWS thermal imaging by providing the most compact and versatile imager on today’s market.

TIM-UL 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 (UFPA) detectors.

TIM-UL provides surprisingly good range performance from such a compact imaging device, suitable for target engagements up to 1000 meters (7.62 caliber). The focus-free design with advanced level and gain processing algorithms minimizes the need for operator intervention prior to target localization and engagement. Thales Canada Defence and Security, Optronics supplies TIM Products for integration on Remote Weapon Stations and related applications.

SPECIFICATION

SPECTRAL BAND:
• 8-12 μm

IR DETECTOR:
• VGA 640 x 480 17 μm
• XGA 1024 x 768 17 μm

FOV:
• VGA 13° x 10°
• XGA 21° x 16°

DETECTION RANGE*:
• > 4,000 m

RECOGNITION RANGE*:
• > 1,250 m

IDENTIFICATION RANGE*:
• > 700 m

WEIGHT:
• 1 kg

DIMENSIONS (mm):
• 60 W x 115 L x 70 H

INPUT POWER:
• 12 VDC or 28 VDC vehicle power

VIDEO OUTPUT:
• 720p (XGA variant)
• EIA-RS-170A or CCIR optional

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

POWER CONSUMPTION:
• < 7.5 Watts

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