

EXPANDING THE PLUGUP FAMILY TO ADVANCED IMAGE CORRECTION

The **ATI EOLE MW™** **Advanced Thermal Imager** is a SWaP module that streamlines camera development for diverse applications such as gases detection (Methane, Benzene, Ethanol), portable and 24/7 applications.

The **ATI EOLE MW™** incorporates a proven, high performance LYNRED thermal sensor combined with advanced image algorithms, ensuring the delivery of high-quality thermal images.



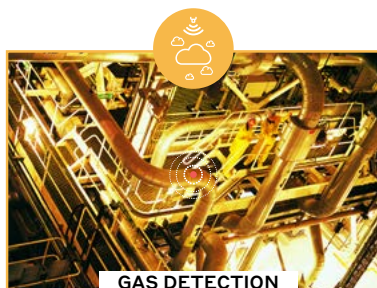
HIGH END ALGORITHMS



EMBEDDED WITHIN PLUGUP™



UNIQUE ELECTRICAL INTERFACE FOR C&CE



EXPANDING THE PLUGUP FAMILY TO ADVANCED IMAGE CORRECTION



HIGH
PERFORMANCE
ALGORITHMS



LOW POWER
CONSUMPTION



COMPACT



HIGH
SENSITIVITY

PRODUCT	
Spectral Band	■ 3.2μm to 3.55μm
Aperture (F/Number)	■ F/1.3
MTTF	■ 50 000 hrs in Lynred's LifeProfile 1
NETD	■ < 25mK @50% well fill
NETD Post Process	■ <15mK
FPA operability	■ > 99.5%
Cooler	■ Split Linear cryocooler: Ricor K588
Cool down time	■ < 360sec @ 20°C and 12 Vdc power supply
FRAME RATE	
Minimum framerate	■ Typical 30Hz, from 15Hz to 60Hz
FPA FEATURES	
Well Capacity	■ 2.1 Me-
ROIC modes	■ Supports ITR and IWR integration modes
Windowing	■ ROI feature support, with 160 x 2 minimum size
INTERFACES	
Video output	■ USB3 or CameraLink®
ON-BOARD PERIPHERALS	
Built-in test	■ Video test pattern, Power supplies monitoring
Product power supply voltage range	■ 12 Vdc typical
Product Power Consumption	■ Cooldown : < 10 Wdc @ 25°C ■ Steady state : < 4.5 Wdc @ 25°C, 30 Hz
PHYSICAL CHARACTERISTICS	
Maximum Outline dimensions (LxWxH)	■ 58 mm * 77 mm * 72.5 mm
Weight	■ 380 g
ENVIRONMENTAL	
Operating temperature Range	■ [-40°C; +65°C]
Storage temperature Range	■ [-40°C; +71°C]

AVAILABLE SERVICES	
Technical training and support	
LYNRED Toolbox™ (LTB)	



EMBEDDED ALGORITHMS	
ALGORITHMS	
■ 2 point Non-Uniformity Correction (up to 4 tables)	
■ Bad Pixel Replacement	
■ Denoising (Spatial & Temporal)	
■ Evolutive Bad Pixel Detection	
■ Image Flip (H/V)	
■ Video Test Pattern	
■ Destripping	
■ Tone Mapping	
■ Digital Detail Enhancement	
■ Graphic Overlay	



RAW



CORRECTED

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

Actipole - CS 10021 - 364, route de Valence
38113 Veurey-Voroize - France
Phone +33 (0)4 76 28 77 00
info@lynred.com

LYNRED ASIA PACIFIC PTE LTD

5 Shenton Way,
#22-04 UIC Building
068808 Singapore
info@lynred.com

LYNRED USA

373 US Highway 46W
Fairfield, NJ 07004, USA
Phone +1 973.882.0211
info@lynred-usa.com

NIT (New Imaging Technologies) Premium SWIR by LYNRED

1 impasse de la Noisette
91370 Verrières-le-Buisson - France
Phone +33 1 64 47 88 58
info@new-imaging-technologies.com