

# ATI GALATEA MW SL™

640 x 512 - 15µm

### **OPENING THE PLUGUP FAMILY TO STATE-OF-THE-ART IMAGE CORRECTION**



The ATI GALATEA SLTM Advanced Thermal Imager is a SWaP module that

streamlines camera development for diverse applications such as UxS (Unmanned systems) and surveillance.

#### The ATI GALATEA SLTM

incorporates a proven, high performance LYNRED thermal sensor combined with advanced image algorithms, ensuring the delivery of high-quality thermal images.













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**PERFORMANCE** 

**ALGORITHMS** 





**LOW POWER CONSUMPTION** 

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#### PRODUCT EMBEDDED FEATURES

IDDCA + PROXIMITY BOARD + CRYOCOOLER CONTROLER + ATI BOARD

I	ARRAY FEATURES
	Datastar apastral ras

Detector spectral response **3.6 to 4.2μm** FPA operating temperature Up to 150 K

#### **ROIC (READ-OUT INTEGRATED CIRCUIT)**

Selection	■ IWR and ITR
Windowing modes	■ TBD
Charge handling capacity	■ 2.1 Me-
Signal output rate	■ 10 MHz
Frame rate	up to 60 Hz

PERFORMANCES	
NETD Sensor	< 28 mK (27°C, 50%WF, f/4)
NETD Post Process	■ <20 mK
Array operability	<b>&gt;</b> > 99.5%
RFPN at 50% well fill	< 0.5 × RMS noise
Aperture	■ f/4; f/5.5
Lag Time	■ 1 Frame

#### **INTERFACES**

Video output	CameraLink®, USB3
Product Power Supply	■ 12 Vdc typical
Connector	SAMTEC LSHM-140-025-L- DV-A-S-K

#### PHYSICAL CHARACTERISTICS

Maximum Outline dimensions (LxWxH)	■ 58.5 mm x 77 mm x 72.5 mm
Weight	■ 375 g
K588	
Populated Input nower @20°C	- 1Wdo

Regulated Input power @20°C	■ 4Wdc	
Cooldown Input power @20°C	■ 12Wdc	
Cooldown time @20°C	■ 3mim 30s	
Cooler MTTF	<b>3</b> 2,000hrs	

#### **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

## **AVAILABLE SERVICES**

Technical training and support

LYNRED Toolbox (LTB)





LYNRED HEADQUARTERS
DEVELOPMENT & PRODUCTION CENTER

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