

TRIMER IMAGING CORE

Named after “Trimeresurus” (pit viper) for their excellent thermal vision.

Trimer is a customizable off-the shelf thermal imaging core with built in ISP.



Key Benefits and Features

- Thermal camera module for wide range of application
- Based on ATI320 sensor with 12 μm pixel pitch
- Built in ISP with Bad-pixel correction, NUC, Tone-mapping and temporal filter.
- SPI interface for core control
- 8-bit BT.656 (YUV 4:2:2) output format
- Customizable mechanical and interface connectors
- Optional: USB 3.0 Type-C adaptor board for UVC video out.

Specification	
Model Name	L3T_LUB

Image Sensor	
Vendor / Model	LYNRED / ATI320L
Spectral response	LWIR (8 – 14 μm)
Max resolution	320 (H) $\times$ 240 (V)
Pixel pitch	12 μm
Frame rate	60 fps
Lens	Fixed lens (5.3mm f/1.3)
FoV	51°

Host Software Support	
User Interface	GUI with live video out and configuration options
Supported platforms	Linux, Windows

Interface	
Output Video format	UVC / 8-bit BT.656 YUV 4:2:2 (USB C/ 40 Pin Hirose B2B Connector)
Output Resolution	320 (H) $\times$ 240 (V)
Time to Image	<4 seconds
Control interface	USB/SPI

Power	
Input voltage	5.0V
Power Dissipation	<600mW

Mechanical	
Dimensions	16 mm x 16 mm x 27.1 mm (with lens)
Lens mount	Built-in
Weight including UVC adaptor board and tripod mount	19g