

TRIMER™ – Thermal Imaging Core

L6P_ZDM



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

Trimer™ is named after “Trimeresurus Malabaricus” (Malabar pit viper) – which is the only animal known to have natural “Thermal Vision” capability.



KEY BENEFITS AND FEATURES

- Thermal camera module for wide range of applications
- Based on Lynred PICO640 Gen2™ sensor with 17 µm pixel pitch or with ATTO640D sensor with 12 µm pixel
- Built-in ISP with Bad-pixel correction, NUC, Tone-mapping, DDE, CLAHE etc
- Image parameters configurable over serial interface
- 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

SPECIFICATIONS

Model Name	L6P_ZDM /L6D_ZDM
Mech. Dimensions	38 mm x 38 mm x 18.7 mm
Lens Mount	M25

IMAGE SENSOR

Vendor / Model	LYNRED / PICO640 / ATTO640D
Spectral Response	LWIR (8 – 14 µm)
Max Resolution	640 (H) × 480 (V)
Pixel Pitch	17 µm / 12 µm
Frame Rate	25 fps / 50 fps

INTERFACE

Output Video Format	8-bit BT.656 YUV 4:2:2 (50 Pin Hirose B to B Connector)
Output Resolution	720 (H) × 480 (V)
Time to Image	<3 seconds
Control interface	Serial (UART)

POWER

Input voltage	5.0V
Power Dissipation	<1.6 W

HOST SOFTWARE SUPPORT

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