



Phoenix LWIR Core Module

**Phoenix Ultra-High Performance Uncooled LWIR Thermal Imaging Core (< 25 NETD).
Solar Energy tolerant. Includes Absolute Temperature based color palette.**

Typical Applications:

- Machine Vision
- Industrial Control
- Fast Event detection
- Medical Screening
- Security & Surveillance
- Search & Rescue



LWIR Image

DETECTOR

Detector Type	Uncooled Amorphous Silicon Microbolometer
Resolution & Pitch	320 x 240 17µm
Spectral Band	8-14 µm
Sensitivity (NETD)	High Performance ≤ 25mK, Standard < 40mK (f/1.0 lens @ 23 degr C)
Frame Rate	30 Hz (Standard), 60 Hz, 120 Hz and Custom up to 900 Hz Available

OPTICS

Focal Length	No Lens	25mm	11mm	7.5mm
FOV	NA	12x9 °	28x21°	40x31 °
F-Stop	NA	f/1.0	f/1.0	f/1.0
Focus	NA	Manual	Manual	Manual
Athermalized / IP Rating	NA	Yes / IP68	Yes/IP68	Yes/IP68

Additional Optics Available. Call for information

SWAP

Size (WxHxL)	1.4" x 1.4" x 1.4"	1.5" x 1.5" x 3.3"	1.4" x 1.4" x 2.7"	1.4" x 1.4" x 2.7"
Weight	43g	70g	63g	63g
Power	≤ 1.3 watts	≤ 1.3 watts	≤ 1.3 watts	≤ 1.3 watts

INTERFACE

Power Input	5-28 VDC
Video Output Channel 1	8/16/24 bit CameraLink
Video Output Channel 2	8 bit NTSC
Image Processing	Histogram or AGC: Color Palette - Absolute Temperature Based
Communication	User GUI, LVTTTL, and USB 2.0, 2 Programmable Discrete I/O's

ENVIRONMENTAL

Operating Temp	-40C to 85C
Storage Temp	-45C to 105C
Enclosure	Available as core, module or inside enclosure

*Specifications subject to change without notice