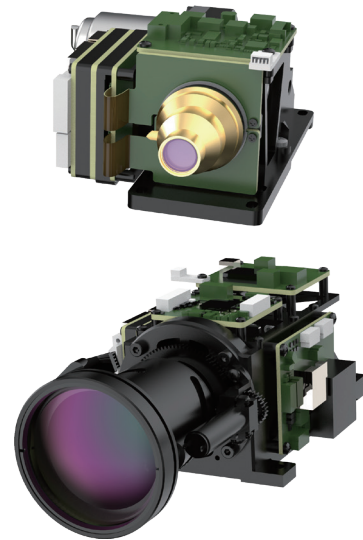


Photon M615L

Medium-Wave Cooled Infrared Module

Photon M615L medium-wave cooled infrared module is provided with the high-performance HgCdTe cooled infrared FPA detector, and carried with the self-developed image processing algorithm. It has the NETD as low as 15mK. It supports multiple digital video interfaces, is suitable for multiple focus and continuous zoom lenses, and is widely applied in sighting distance enhancement, perimeter surveillance and other scenarios. It provides an SDK, which is simple and easy to use, reducing secondary development costs.



Product Highlights

Delicate Images with High Sensitivity

- The NETD is as low as 15mK, meeting the requirements of long-distance observation of tiny targets.



Self-Developed Algorithm for Intelligent Imaging

- Equipped with a new self-developed image algorithm, it supports a wide dynamic range and adaptive integral time, providing the best imaging effect for different scenarios.



Higher Frame Rate for Timely Capture

- The resolution is up to 640×512 and the frame rate is as high as 50Hz, meeting the requirements of large-range dynamic target capture.



Specifications

Model	Photon M615L
Performance Indicators	
Detector Type	HgCdTe cooled infrared detector
Resolution	640×512
Frame Rate	50Hz/30Hz
F#	F4.0/F5.5
Pixel Pitch	15μm
Spectral Band	3.7±0.2μm~4.8±0.2μm
NETD	≤15mK@25°C
Detector Defective Pixel Rate	≤0.5%
Cooling Time@25°C	≤7min
Image Adjustment	
Brightness/Contrast Adjustment	Manual/Auto
Polarity	Black-hot/White-hot (white-hot by default)
Reticle	Display/Blank/Move
Image Processing	Non-uniformity correction, digital filter noise reduction, digital detail enhancement
Mirroring	Horizontal/Vertical/Diagonal
Power Supply	
Power Supply Range (With isolation)	/
Power Supply Range (Without isolation)	11~13V DC (typical 12V)
Power Consumption (Typical, @25°C)	Stable power consumption ≤ 10W, peak power;consumption ≤ 25W
Interface	
Analog Video	PAL
Digital Video	Cmaeralink/SDI/Ethernet
Serial Communication Interface	RS422 (default baud rate: 115200)
External Synchronization	Internal synchronization (default)/external synchronization/adaptive synchronization mode
Physical Characteristics	
Weight (Without lens)	≤ 480g (without isolation)
Dimensions (Without lens)	120×88×57mm (±1) (without isolation)
Environment Adaptability	
Operating Temperature	-40°C~+60°C
Storage Temperature	-45°C~+65°C
Temperature Shock	-45°C~+65°C (≤5°C/min)
Random Vibration	4.2g
Shock	Final peak sawtooth wave, 40g, 11ms (18 times in 3 axes and 6 directions in total)
MTTF	≥6000h
Storage Life	≥10years

Applications



Perimeter Surveillance



Nature Reserve



Handheld Device



Vision Enhancement

Raythink Technology Co., Ltd.

Company Address: No.5 Wanshoushan Road, Fulaishan Street, Yantai Area of China (Shandong) Pilot Free Trade Zone Postal Code: 264000
 Official Website: <http://www.raythink-tech.com> Service Email: sales@raythink-tech.com

The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: O2025-Photon M615L-2P001