

C615M Cooled Infrared Detector

Specially Designed for
Customer Requirements



Hand-held
Reconnaissance
System



Auto Search
Tracking System



Enhanced Flight
Vision System



Remote
Monitoring
System



Electro-Optical
Payload

Description

C615M is a 640×512 resolution, 15µm pixel size, MCT technology based mid wave infrared detector that could present clear images. Equipped with industry standard interfaces and RS058/RS046/LS734 cryocoolers, C615M is designed to meet various customer requirements of light weight, low power consumption, long life and high reliability.

Sharp & Clear Imaging

- Good uniformity, effective pixel rate > 99.5%
- High thermal sensitivity

Guaranteed Continuous Supply

- Interchangeable standard interface
- Mass production, good consistency

Designed for Specific Application

- Wavelength can be customized
- Mounting surface can be customized
- F number can be customized
- Multiple cryocooler available



Specifications

Model	C615M MWIR		
Sensitive Material	HgCdTe/MCT		
Resolution	640x512		
Pixel Size	15 μ m		
Spectral Range	3.7 μ m \pm 0.2 μ m ~ 4.8 μ m \pm 0.2 μ m		
Working Mode	Snapshot; ITR/IWR Integration Modes; Windows Mode; Anti-blooming		
Charge Capacity	6.36Me-(ITR), 4.99Me-(IWR)		
Dynamic Range	\geq 75dB		
Number of Output	4; Up to 10MHz per Output		
Typical NETD	F2:16mK F4:18mK		
Effective Pixel Rate	\geq 99.76%		
Response Non-uniformity	\leq 8%		
Cryocooler	RS058	RS046	LS734
Cooler Type	Rotary Stirling Cooler	Rotary Stirling Cooler	Linear Stirling Cooler
Steady Power Consumption	\leq 6W	\leq 5W	\leq 10W
Max. Power Consumption	\leq 12W	\leq 11W	\leq 45W
Power Supply	24V DC	32V DC	24V DC
Cooling Time	\leq 6min	\leq 5min30s	\leq 5min
Weight	\leq 600g	\leq 350g	\leq 1.3kg
Maximum Size (mm)	145x58.5x71	120x47x81	Compressor Φ 46x122 Dewar Φ 40x88
Operating Temperature	-45 $^{\circ}$ C ~ +71 $^{\circ}$ C		

Specifications are subject to change without prior notice.

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