

# C1212M

## Cooled Infrared Detector

**High Definition  
Thermal Imaging Solution**



### Description

C1212M cooled infrared detector has high resolution, high performance and high reliability. It offers four times as many pixels in the same active image area as conventional 640x512 products. Its reduced 12 $\mu$ m pixel size offers better spatial resolution and matches shorter optical lens focus to achieve the same range mission. C1212M is an ideal choice for applications that require superior long range performance and image details recognition.

### Outstanding Performance

- 1280x1024 resolution for wider FOV and longer distance
- 12 $\mu$ m pixel size for better spatial resolution

### Sharp & Clear Image

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

### Designed for Specific Applications

- F number can be customized
- Guarantee continuous supply



## Specifications

Model	C1212M MWIR
Sensitive Material	HgCdTe/MCT
Resolution	1280×1024
Pixel Size	12μm
Spectral Range	3.7μm±0.2μm ~ 4.8μm±0.2μm
Working Mode	Snapshot; ITR/IWR Integration Modes; Windows Mode; Anti-blooming
Charge Capacity	6.75Me-/4.8Me-(ITR) 5.25Me-/3.3Me-(IWR)
Dynamic Range	ITR Mode≥80dB IWR Mode≥76dB
Number of Output	4 or 8; Up to 20MHz per Output
Typical NETD	F2:16mK F4:18mK
Effective Pixel Rate	≥99.5%
Response Non-uniformity	≤8%
Cryocooler	RS058
Steady Power Consumption	≤7W
Max. Power Consumption	≤17W
Power Supply	24V DC
Cooling Time	≤6min
Weight	≤600g
Maximum Size (mm)	149×58.5×71
Operating Temperature	-45°C ~ +71°C

Specifications are subject to change without prior notice.

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