

MCT Cooled Infrared Detector

Cooled Thermal Imaging Stepping into **HD Times**



C1212 MWIR

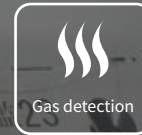
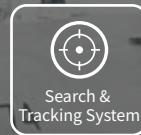


C615 MWIR



C330 MWIR

GST mastered the complete routine technology of MCT cooled detectors, covering more than 300 technique and 4000 procedures in element purification, substrate, epitaxy, FPAs, ROIC, coolers, package and testing etc. GST MCT cooled infrared detectors obtained the certificate of Chinese nationally recognized scientific and technological achievements.



“Sharp and clear imaging”



- Good uniformity, effective pixel rate >99.5%.
- High sensitivity, the best NETD as low as 8mK.

“Guaranteed continuous supply”



- Interchangeable standard interface.
- Mass production, good consistency.

“Designed for specific applications”



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





Model	C1212M MWIR	C615M MWIR	C330M MWIR
Material	MCT		
Resolution	1280×1024	640×512	320×256
Pixel Pitch	12μm	15μm	30μm
Spectral Range	3.7μm~4.8μm MW		
Working Mode	Snapshot; Two modes of integration ITR/IWR; windows mode; anti-blooming	Snapshot; Two modes of integration ITR/IWR; windows mode; anti-blooming	Snapshot; ITR integration mode; windows mode; anti-blooming
Charge Capacity	6.75Me-/4.8Me-(ITR) 5.25Me-/3.3Me-(IWR)	9.1Me-/6.5Me-(ITR) 7.8Me-/5.2Me-(IWR)	36Me-/12Me-
Dynamic Range	ITR mode ≥80dB IWR mode ≥76dB	≥75dB	≥80dB
Number of Output	4 or 8; up to 20Mpixel/s per output	4; up to 10Mpixel/s per output	1 or 4; up to 6.6Mpixel/s per output
NETD	≤20mK(F2/F4)	F2: ≤17mK F4: ≤18mK	F2: ≤9mK F4: ≤15mK
Effective Pixel Rate	≥99.5%		
Response non-uniformity	≤8%		
Cooler Type	RS058F	RS058/RS046	RS058/RS046H
Steady Power Consumption	≤7W	≤6W @ RS058 ≤5W @ RS046	≤6W @ RS058 ≤6W @ RS046H
Max Power Consumption	≤17W	≤12W @ RS058 ≤11W @ RS046	≤12W @ RS058 ≤11W @ RS046H
Power Supply	24V DC	RS058: 24V DC RS046: 32V DC	RS058: 24V DC RS046H: 32V DC
Cool Down Time	≤6min	≤6min @ RS058 ≤5min30s @ RS046	≤6min @ RS058 ≤5min30s @ RS046H
Weight	≤600g	≤600g @ RS058 ≤350g @ RS046	≤600g
Dimension(mm)	149x58.5x71	RS046: 122x46.3x82 RS058: 147x58.5x71	142x58.5x71
Working Temperature	-45°C ~ +71°C		

Specifications are subject to change without notice.

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