

## C330M-G Cooled Infrared Detector

Visualize VOCs Gas Leakage



### Description

C330M-G cooled infrared detector is specially developed for VOCs gas leak detection with the function of converting infrared radiation of target with 3.2~3.5 $\mu$ m wavelength into electrical signal. Its external mechanical interface, optical interface and electronic interface are commonly used and can be expanded. C330M-G can be widely used in atmospheric environment monitoring and gas leakage detection, pollutant discharge, chemical gas detection in petrochemical plants and refineries.

### Optical Gas Imaging

- Long range non-contact detection
- High efficient, secure and wide range of gas leak detection

### High Sensitivity

- High sensitive cooled infrared detector, quite efficient in application of low gas concentration and slow gas flow
- Effective leak detection includes Alkanes, Alkenes, Alcohols, Benzenes, Ketones and other gases

### Designed for Requirements of Users

- Support 12V power supply for explosion-proof certification
- Various cryocoolers available for light weight, low power, long life and high reliability
- Customizable spectral range: 3 $\mu$ m~5 $\mu$ m MWIR (for more gas detection types: CO, CO<sub>2</sub> etc.)



## Specifications

Model	C330M-G		
Sensitive Material	HgCdTe/MCT		
Resolution	320×256		
Pixel Size	30μm		
Spectral Range	3.2μm±0.1μm~3.5μm±0.1μm (Cusomizable Range: 3μm~5μm)		
Working Mode	Snapshot; ITR Integration Mode; Windows Mode; Anti-blooming		
Charge Capacity	36Me-/12Me-		
Dynamic Range	≥80dB		
Number of Output	1 or 4; Up to 6.6MHz/per Output		
Typical NETD	10mK (F1.5)		
Effective Pixel Rate	≥99.5%		
Response Non-uniformity	≤8%		
Cryocooler	RS058	RS058I	LS734
Cooler Type	Integral Rotary Stirling Cooler	Integral Rotary Stirling Cooler	Linear Rotary Stirling Cooler
Stable Power Consumption	≤7W	≤7W	≤10W
Max. Power Consumption	≤15W	≤15W	≤45W
Power Supply	24V DC	12V DC	24V DC
Cooling Time	≤6min30s	≤7min	≤5min
Weight	≤600g	≤600g	≤1.2kg
Size (mm)	142×58.5×71mm	142×58.5×71mm	Compressor Φ46×122 Dewar Φ40×114
Working Temperature	-45°C ~ +71°C		

Specifications are subject to change without prior notice.

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