

GAVIN1212 Cooled Thermal Module

Mega Pixel
Easy Integration



Description

GAVIN1212 high resolution thermal camera module integrates large array 1280x1024/12μm cooled MWIR detector. Various image processing algorithms are embedded in the GAVIN1212 electronics to output clear infrared images in the total darkness or bad weather conditions. It can detect and recognize risks and threats at long distance while present more target details at short distance.

Mega Pixel Images

- 1280x1024 high definition for wider FOV and longer distance
- 12μm pixel size for better spatial resolution

Sharp Clear Quality

- Good uniformity, effective pixel rate > 99.5%
- High sensitivity, NETD ≤ 20mK

Fast Integration

- Support Cameralink interface, RAW/YUV image data output
- Various continuous zoom optical configurations are optional

Specifications

Model	GAVIN1212
Performance	
Resolution	1280×1024
Pixel Size	12μm
Cryocooler	RS058
Spectral Range	3.7μm±0.2μm ~ 4.8μm±0.2μm
Cooling Time (20°C)	≤8min
Typical NETD	≤20mK
Image Processing	
Frame Rate	50Hz/100Hz
Dimming Mode	Linear/Histogram/Mixed
Digital Zoom	1~8X Continuous Zoom
Image Direction	Horizontally/Vertically/Diagonally Flip
Image Display	Non-uniformity Correction (NUC) Auto Gain Control (AGC) Image Detail Enhancement (IDE)
Electrical Specification	
Standard External Interface	J30JZ 25pin HDMI Special Output Interface
Analog Video	/
Digital Video	HDMI Output: YUV Cameralink Output: 16bit RAW/YUV
External Sync	Frame External Sync: RS422 Level
Communication	RS422, 115200bps
Power Supply	24V±1V
Stable Power Consumption	16W
Size (mm)	165×86×107
Weight	≤1600g
Operating Temperature	-40°C ~ +60°C
Vibration & Shock	Vibration: GJB Vehicle-mounted High Speed Transport; Shock: half-sine wave, 40g 11 ms, 3-axis 6-direction, 3 Times Each
Optics	
Optional Lens	Continuous Zoom: 37.5~750mm/F4 Fixed Zoom: 19mm/F2; 40mm/F2; 240mm/F2

Specifications are subject to change without prior notice.

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