

GAVIN Series Cooled Thermal Modules

See Through
the Darkness Far Away



Description

GAVIN series cooled thermal module utilizes GST MCT & T2SL cooled IR detectors and integrates various image processing algorithms 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.

Meet Long Range Detection

- High thermal sensitivity with best NETD < 9mK
- Long range detection, aircraft can be detected at 60km away
- Wide field of view, resolution up to 1280×1024

Easy Integration into the System

- Cameralink/DVP/USB/Gig-E interface, RAW/YUV image output
- A variety of continuous optical zoom lenses are available

Model	GAVIN1212	GAVIN615A	GAVIN615B	GAVIN330	GAVIN615L
IR Detector Performance					
Resolution	1280×1024	640×512	640×512	320×256	640×512
Pixel Size	12μm	15μm	15μm	30μm	15μm
Cryocooler	RS058	RS058	RS046	RS058	RS058
Spectral Range	3.7μm±0.2μm ~ 4.8μm±0.2μm				7.7μm±0.2μm~ 9.4μm±0.3μm
Cooling Time (20°C)	≤8min	≤7min	≤7min	≤7min	≤7min
Typical NETD	≤20mK	≤15mK	≤20mK	≤10mK	≤25mK
Image Processing					
Frame Rate	50Hz/100Hz	50Hz/100Hz	50Hz/100Hz	50Hz/100Hz/200Hz	50Hz/100Hz
Dimming Mode	Linear/Histogram/Mixed				
Digital Zoom	1~8X Continuous Zoom				
Image Direction	Horizontally/Vertically/Diagonally Flip				
Image Algorithm	NUC/AGC/IDE				
Electrical Specification					
Standard External Interface	J30JZ 25pin HDMI Special Output Interface	J30JZ 25pin	J30JZ 25pin	J30JZ 25pin	J30JZ 25pin
Analog Video	/	PAL	PAL	PAL	PAL
Digital Video	HDMI Output: YUV Cameralink Output: 16bit RAW/YUV	16bit RAW/YUV: Cameralink/ 16bit DVP Output/ USB Module (Optional)/Gig-E Network Module (Optional)			
External Sync	Frame External Sync: RS422 Level				
Communication	RS422, 115200bps				
Power Supply	24V±1V	20~28VDC	20~28VDC	20~28VDC	20~28VDC
Stable Power Consumption	16W	12W	12W	12W	14W
Size (mm)	165×86×107	155×67×80	125×92×67	150×67×80	155×67×80
Weight	≤1600g	≤900g	≤650g	≤900g	≤900g
Operating Temperature	-40°C ~ +60°C				
Vibration Magnitude	Vibration: GJB Vehicle-mounted High Speed Transport; Shock: Half-sine Wave, 40g 11ms, 3-axis 6-direction, 3 Times Each				
Optics					
Optional Lens	Continuous Zoom: 37.5~750mm/F4 Fixed Zoom: 19mm/F2 40mm/F2 240mm/F2	Continuous Zoom: 30~240mm/F4 15~300mm/F4 21~420mm/F4 35~690mm/F4	Continuous Zoom: 60~240mm/F4 15~300mm/F4 21~420mm/F4 35~690mm/F4	Continuous Zoom: 30~240mm/F4 15~300mm/F4 21~420mm/F4 35~690mm/F4	Fixed Zoom: 25mm/F2