

# EYAS Series Cooled AD Modules

Accelerator for Cooled  
Infrared Detector Integration



## Description

Equipped with high performance signal processing circuit, EYAS series cooled AD module is applicable to all MCT&T2SL cooled infrared detectors by GST. Standard cameralink interface could output 16 bits raw data. It is easy for OEM customers to start rapid secondary development and shorten their development period of thermal modules and infrared products based on cooled infrared detectors.

### High Performance Cooled Infrared Detector

- High thermal sensitivity with best NETD<9mK

### Easy to Develop & Integrate

- Cameralink interface output 16bit raw data, serial port control
- Integrated structure that has consistent dimension with detector
- 5V single-supply

### Capture High Speed Moving Target

- Output frame frequency is adjustable at 1~200Hz

# Specifications

Model	EYAS1212	EYAS615A	EYAS615B	EYAS330	EYAS615L
IR Detector Performance					
Resolution	1280×1024	640×512	640×512	320×256	640×512
Pixel Size	12μm	15μm	15μm	30μm	15μm
Cryocooler	RS058F	RS058	RS046	RS058	RS058
Spectral Range	3.7μm±0.2μm ~ 4.8μm±0.2μm				7.7μm±0.2μm~ 9.4μm±0.3μm
Cooling Time (25°C)	≤6min	≤6min	≤5.5min	≤6min	≤5.5min
Typical NETD	≤18mK	≤17mK	≤18mK	≤9mK	≤25mK
Working Mode					
Frame Rate	1~100Hz Adjustable	1~120Hz Adjustable	1~50Hz Adjustable	1~200Hz Adjustable	1~160Hz Adjustable
Working Mode	Snapshot ITR/IWR Integration Mode Windows Mode Anti-blooming		Snapshot ITR Integration Mode Windows Mode Anti-blooming		Snapshot ITR & Interlace Binning Integration Mode Windows Mode Anti-blooming
Electrical Specification					
Standard External Interface	QSH 60 pin				
Digital Video	Cameralink: Output 16bit Raw Data				
External Sync	CC1: INT/Frame External Sync CC2: MC External Sync				
Communication	Cameralink Serial Port: TFG+/-, TC+/-; 9600bps				
Power Supply	Channel 1 (Imaging Panel): 5V Channel 1 (Cryocooler): 24V	Channel 1 (Imaging Panel): 5V Channel 1 (Cryocooler): 12V	Channel 1 (Imaging Panel): 5V Channel 1 (Cryocooler): 24V	Channel 1 (Imaging Panel): 5V Channel 1 (Cryocooler): 24V	Channel 1 (Imaging Panel): 5V Channel 1 (Cryocooler): 24V
Stable Power Consumption	9W	7W	8W	7W	9W
Size (mm)	149×58.5×71	145×58.5×71	122×88×59	142×58.5×71	148×58.5×71
Weight	≤680g	≤680g	≤400g	≤680g	≤680g
Operating Temperature	-40°C ~ +60°C				
Vibration Magnitude	Vibration: GJB Vehicle-mounted High Speed Transport; Shock: Half-sine Wave, 40g 11 ms, 3-axis 6-direction, 3 Times Each				

Specifications are subject to change without prior notice.

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