



Plug and Play Stable and Reliable



















Description

The PLUG Series uncooled thermal modules integrate GST metal package infrared detector, unique image processing algorithm and professional hardware platform. With high performance IR detector, the thermal module can provide superior performance, clear images, edge sharpening and enhanced details at any harsh environments. The PLUG series thermal modules are equipped with various common industrial interfaces and optical lenses, which cater for all specific integration requirements.

Plug & Play for Easy Integration

- DVP/LVDS multiple image output interfaces
- Standard optical interface; a full set of lenses

Good Stability

Adapt to various harsh environments

Clear Images & Rich Details

- High thermal sensitivity, NETD < 30mK
- IDE/AGC intelligent algorithm

Various Expansion Components

USB3.0/VPC/Cameralink/HDMI/Gig-E network port

Model	PLUG1212	PLUG612		PLUG617	PLUG417	
	IR Detector Performance					
Resolution	1280×1024	640×512		640×512	384×288	
Pixel Size	12µm			17μm		
Spectral Range	8~14μm					
Typical NETD	<50mK <40mK <30mK					
	Image Processing					
Frame Rate	25Hz	9Hz/25Hz/30Hz/50	0Hz	9Hz/25Hz/30Hz/50Hz	9Hz/25Hz/30Hz/50Hz/60Hz	
Start-up Time	25s	10s		10s		
Analog Video	/	PAL/NTSC		PAL/NTSC		
Digital Video	RAW/YUV/BT1120	RAW/YUV/BT656/L	_VDS	RAW/YUV/BT656/LVDS		
Extension Component	USB/Camerlink/HDMI	USB/VPC/Cameralink	/Gig-E	USB/VPC/Cameralink/Gig-E		
Dimming Mode	Linear/Histogram/Mixed					
Digital Zoom	1~8X Continual Zoom, Step Size 1/8					
Image Display	Black Hot/White Hot/Pseudo Color					
Image Direction	Horizontally/Vertically/Diagonally Flip					
Image Algorithm	Non-uniformity Correction (NUC) Auto Gain Control (AGC) Image Detail Enhancement (IDE)					
	Electrical Specification					
Standard External Interface	50pin_HRS					
Communication Mode	RS232-TTL, 115200bps					
Supply Voltage	5±0.3V	4~6V		4~6V	4.5~6V	
Typical Power Consumption	2.0W	1.4W		1.4W	1.4W	
	Physical Characteristics					
Size (mm)	56×56×44	44.5×44.5×36.6		44.5×45.95×37.3	44.5×44.5×36.6	
Weight	220g±5g	85g±3g		90g±3g	85g±3g	
	Environmental Adaptability					
Operating Temperature	-40°C ~ +70°C					
Storage Temperature	-45°C ~ +85°C					
Humidity	5%~95%, Non-condensing					
Vibration	Random Vibration 5.35grms, 3-axis					
Shock	Half-sine Wave, 40g/11ms, 3-axis 6-direction					
	Optics					
Optional Lens	Fixed Focus Athermal: 14mm/19mm/25mm Continuous Zoom: 30-90mm, 30-180mm		Fixed Focus Athermal: 7.5mm/13mm/19mm/25mm/ 35mm/50mm/60mm/100mm Motorized Lens: 75mm/100mm/150mm Continuous Zoom: 30-150mm			

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Specifications are subject to change without prior notice.







