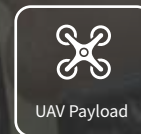
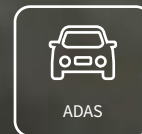
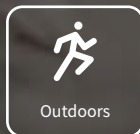


# PLUG Series Uncooled Thermal Modules (Imaging Only)

Plug and Play, Stable and Reliable



GST metal package infrared detector + professional hardware platform + unique image processing algorithm = PLUG Series Uncooled Thermal Modules. High performance IR detector captures more target information. Professional hardware platform and image algorithm ensure image clarity and details. The Plug series come with various common industrial interface and IR lens options, which caters for all specific integration requirements.



## “Plug and play for easy integration”



- DVP/LVDS multiple image output interfaces.
- Standard optical interface with complete lens options.

## “High quality IR images”



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



## “Adapt to a variety of harsh environments”

- Good reliability.



Model	PLUG617	PLUG417	PLUG1212	PLUG612	PLUG412
IR Detector Performance					
Resolution	640×512	400×300	1280×1024	640×512	400×300
Pixel Pitch	17μm		12μm		
Spectral Range	8~14μm				
NETD	<30mK				
Image Processing					
Frame Rate	9Hz/25Hz/30Hz/50Hz/60Hz				
Start-up Time	<10s		<25s	<10s	
Analog Video	PAL/NTSC		/	PAL/NTSC	
Digital Video	Y16/YUV/BT656/LVDS		HDMI/Y16/YUV/BT1120	Y16/YUV/BT656/LVDS	
Extension Component	USB/Camerlink				
Dimming	Linear/Histogram/Mixed three modes				
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);Intelligent Detail Enhancement (IDE)				
Electrical Specification					
Standard External Interface	50pin_HRS interface				
Communication Mode	RS232-TTL, 115200bps				
Supply Voltage	4~6V				
Typical Power Consumption	<1.2W	<1.1W	<2.0W	<1.2W	<1.1W
Physical Characteristic					
Dimension(mm)	44.5×44.5×36.6		56×56×40.2	44.5×44.5×36.6	
Weight	<90g		<120g	<90g	
Environmental					
Operation 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: 7.5mm/13mm/19mm/25mm/ 35mm/50mm/60mm/100mm Motorized lens: 75mm/100mm/150mm Continuous optical zoom: 30-150mm		Fixed focus athermal: 19mm/25mm	Fixed focus athermal: 13mm/19mm/24mm	

Specifications are subject to change without notice.

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