

# iGS Series Infrared Camera Core (Shutterless)

| Fluent and Stable



## Description

The iGS series shutterless infrared camera core does not require shutter correction during operation. It can adapt to 1500g@0.4ms strong impact environment and solve problems of jamming or noise encountered by observers. In order to meet the personalized needs of integrators, iGS series infrared camera core is equipped with multiple functions such as a reticle, external OLED, keypads and provides various video interfaces and lenses for easy integration. The outer diameter does not exceed  $\phi 36$  and bare weight is no more than 28.6g. Such a powerful performance infrared camera core truly provides first-class observation experience under limited space and load conditions.

### Shutterless Solution

- No need shutter correction during use
- Mute operation for good concealment

### Strong Impact Resistance, High Reliability

- Impact resistance up to 1500g, duration 0.4ms

### Tiny and Light

- Max outer diameter  $\leq \phi 36$
- Weight  $\leq 28.6g$  (bare module)

### Powerful Features, Easy Integration

- Support reticle, picture in picture, keypads etc
- Support to drive various Micro OLEDs
- Support various video interfaces
- Various lenses are available:  
manual focus/motorized lens/continuous zoom

Model	iGS412	iGS612
<b>IR Detector Performance</b>		
Resolution	384x288/12μm	640x512/12μm
Spectral Response	8~14μm	
Typical NETD	≤30mk@f1.0/25°C	
<b>Image Display Performance</b>		
Digital Video Format	RAW/YUV	
Frame Rate	25Hz/30Hz/50Hz	
Image Algorithm	NUC/3DNR/DNS/DRC/EE	
Pseudo Color	10 Types (White Hot/Lava/Iron Red/Hot Iron/Medical/Arctic/Rainbow 1/Rainbow 2/Tint/Black Hot)	
Digital Zoom	1x/2x/4x	1x/2x/4x/8x
Mirror Image	Horizontal/Vertical/Diagonal	
Reticle	10 Types	
Reticle Brightness	10 Levels	
Reticle Color	Red, Blue, Yellow, Black, White	
Picture in Picture	Support Upper Left/Upper Middle/Upper Right/Picture-in-Picture with Reticle	
Zero Calibration	Support	
Approximate Ranging	Support	
Ranging Calibration	Support	
<b>System Function</b>		
Peripheral Drive	Support I2C, 16bit Parallel Port, Datavalid and Other Drive Screen Signals Direct Drive MicroOLED MDP03/MicroOLED MDP02/Ored SVGA060/Sony ECX334A	
<b>Electrical Characteristics</b>		
Standard External Interface	50pin: BP040SB-50-0114-B-R0	
Digital Video Interface	DVP8/DVP16/USB2.0/LVDS/BT.656	
Communication Interface	RS232-TTL/USB2.0	
Working Voltage	DC: 2.7-5.3v	
Power Consumption	0.5W@23±3°C	
Keypads	≥3	
Extension Components	CameraLink / HDMI / USB3.0 / USB2.0 / GigE / VPC / MIPI / XGA / HD-SDI/AHDL	
<b>Physical Characteristics</b>		
Size (Bare Module)	≤ φ36 (Max Outer Diameter)	
Weight (Bare Module)	≤28.6g	
Environmental Protection	ROHS2.0/REACH	
<b>Environmental Adaptability</b>		
Operating Temperature	-40°C ~ + 70°C (Imaging)	
Storage Temperature	-45°C~+85°C	
Vibration	Random Vibration, 5.35grms, 3-axis	
Shock	1500g@0.4ms	
<b>Optics</b>		
Optional Lens	Manual Focus: 25mm/35mm/50mm Fixed Focus Athermal: 19mm/25mm/35mm/50mm/70mm/100mm	Motorized Lens: 75mm/100mm/150mm Continuous Zoom: 28~90mm/30~180mm

Specifications are subject to change without prior notice

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