HIFLY TECHNOLOGY

FEATURES

- High sensitivity and high resolution infrared detector is used to provide clear infrared image and temperature measurement accuracy.
- Using RJ45 gigabit Ethernet interface, 100 meters long distance stable transmission.
- The plug and play driver design is simple and easy to use, which has the stability of network communication and the convenience of using USB devices.
- 400X300 resolution with up to 50HZ frame rate.
- The thermal sensitivity is less than 55mK and the thermal response time is less than 15ms.
- Support multi-camera work at the same time, the number is not limited, can be any network, long time work not dropped, not lost frames.
- Built-in hardware image processing acceleration, reduce the CPU occupation rate of the host side.
- Designed using GigE Vision1.2 visual standard protocol and supports Halcon, Visionpro and other software.

SPECIFICATIONS

Parameter / Model	MV-GF120
Sensor	6.8mmx5.1mm
Sensor type	Thermal Imaging
Sensor Model	GST417M
Pixel Size	17um
Resolution	0.12MP(400x300)
Exposure mode	Automatic
SNR	75dBFS
DR	80dBc
Sensitivity	NETD≤55mK
AD width	14bit
Output pixel width	14bit
Preset resolution and frame rate	400x300 50Hz
Video Output format	RGB24/MONO16
Exposure time range (ms)	1~6
Maximum gain (multiple)	0~7
Frame buffer	128MB
User-defined data area	2KB
Vision standard protocol	GigE Vision V1.2 GenICam
Data interface	Gigabit
Power supply	12V(8PIN aviation connector)
Power	3W
Lens mount	M34x0.75(customizable)
Dimension	66mmx50mmx50mm(excluding lens)
Weight	<300g
Temperature	Operating:0~50° Storage:-30~60°
Humidity	Operating:20~80% (no condensation) Storage:20~95%(no condensation)
Spectral region	8μm -14μm
Image display	Black hot/white hot/rainbow

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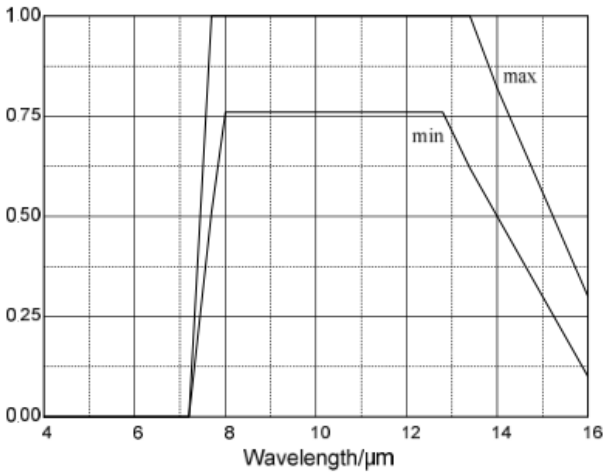
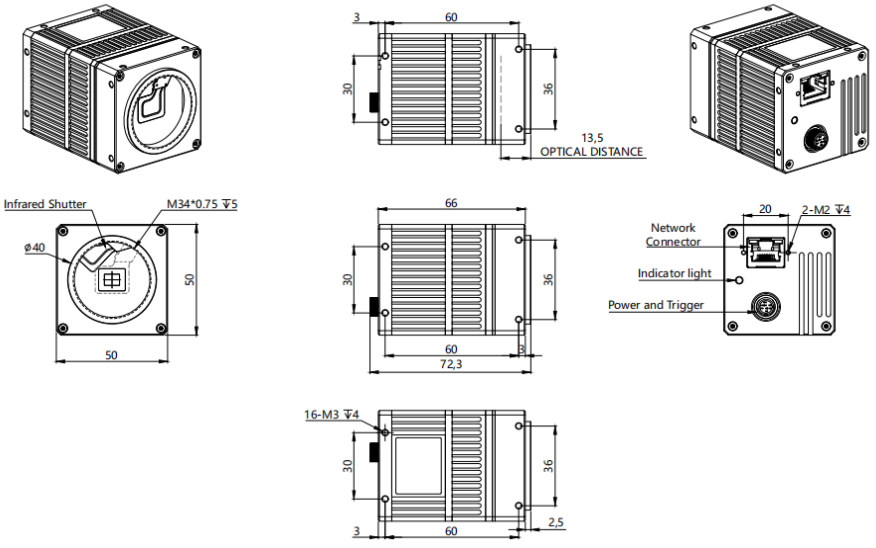
Image mirroring	Horizontal/vertical
Focus mode	Manual focus
Measuring Range	Gear 1: -20°C~150°C; Gear 2:50 °C~400°C, temperature measurement accuracy ±1°C or ±2% (maximum value)
Temperature measuring mode	1. Ambient temperature and human body temperature measurement (20°C-50°C) 2. Medium temperature mode (-40°C-170°C) 3. High temperature mode (-40°C-800°C)
Color Mode	Rainbow color encoding (this encoding mode is used by default) Hot metal, white hot, black hot
Response rate nonuniformity	≤5%
Operating system	WINXP, WIN7/8/10 32&64 bit system, Linux and ARM Linux driver, Android platform driver, MAC OS system
Driver	Directshow component Halcon special component Labview special drive OCX component TWAIN component
Programming language ackages	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java
Other functions	Support arbitrary size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction, ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, and more

SPECTROGRAMS



DIMENSIONS(Unit: mm)



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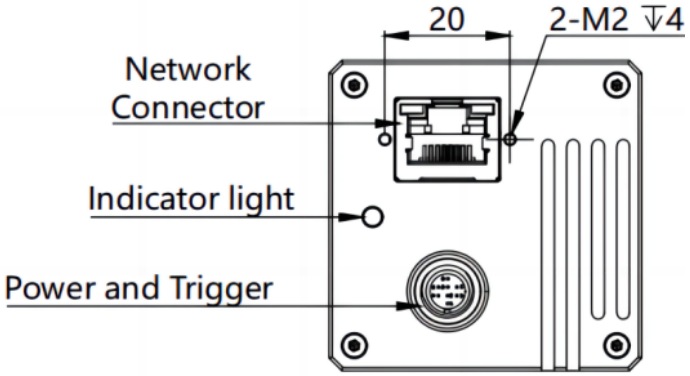
Linear order definition:



Port	Pin	Line Color	Signal Name	Signal Description	Remark
PortA	1	white	GPI1+/TRIG_IN+	GPI1 positive end/Trigger input positive end	Default to trigger input
	2	green	GPO1+/STRB_OUT +	GPO1 positive end/flash output positive end	Default flash output
	3	yellow	GPO1-/STRB_OUT-	GPO1 negative end/flash output negative end	Default flash output
	4	Empty foot			
	5	black	PWRGND	Camera power input negative end	
	6	brown (High soft blue)	GPI1-/TRIG_IN-	GPI1 negative end/Trigger input negative end	Default to trigger input
	7	red	PWR12V	Camera power input positive end	
	8	Empty foot			