

Product number

MV-XG51GC/M-T

With the wide application of machine vision in various industries, various high-speed and high-precision visual inspection requirements have emerged, and higher requirements have been placed on the resolution and frame rate of industrial cameras. In order to meet the market demand, MedVision has launched a variety of new products, such as 10GigE 10 Gigabit network cameras with 0.5-65 million pixels, to meet customers' needs for high-definition.



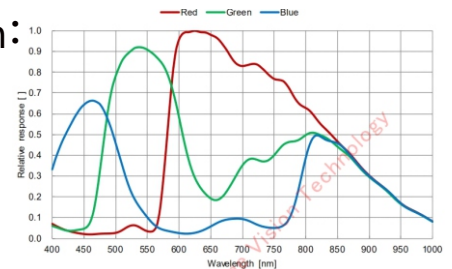
Application industry:

Suitable for PCB, screen inspection, lithium battery, railway.

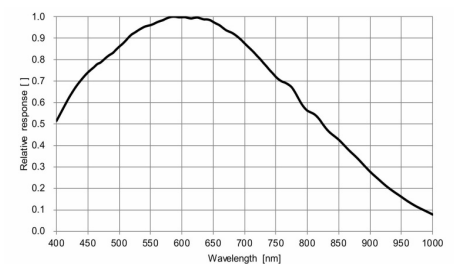
Feature of product:

- The fan interface is reserved to effectively control the camera temperature;
- The cost of the interface with the capture card is greatly reduced;
- Using standard 10 Gigabit network interface design, super six kinds of network cables can realize stable communication,
- Compared with the CameraLink interface with the capture card, the cost is greatly reduced;
- The longest transmission distance can reach 100 meters, and the industrial field wiring is no longer restricted; it is backward compatible with Gigabit Ethernet
- The effective bandwidth is 1200MByte, which is 10 times that of the Gigabit network, which greatly shortens the image transmission time and delay;
- Support GigEVision, GenICam standards and the same SDK as Gigabit cameras, shorten customer development cycle.

Spectrum:



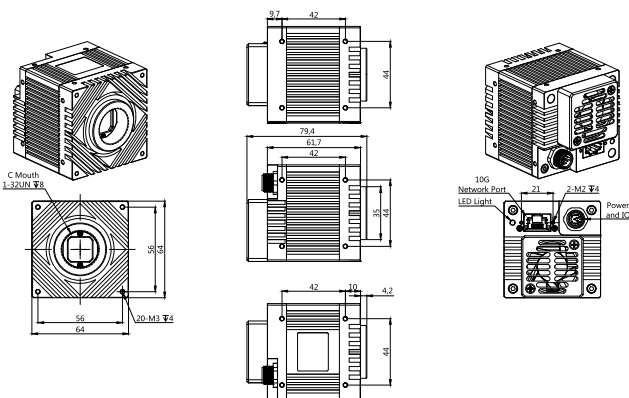
MV-XG51GC-T



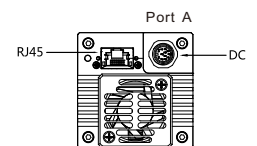
MV-XG51GM-T

Mechanical Specifications:

unit:mm



Line order definition:



Port	Pin No	Line color	Signal name	Description	Remarks
Port A	1	Black	PWRGND	Camera power input negative terminal	
	2	Red	PWR12V	Camera power input positive terminal	
	3	Gray	GP1+ /TRIG_IN+	GP11 or trigger input optocoupler positive terminal	Trigger by default
	4	Pink	GP1- /TRIG_IN-	GP11 or trigger input optocoupler negative terminal	Trigger by default
	5	Brown	GP12+	GP12 input optocoupler positive terminal	
	6	white	GP12-	GP12 input optocoupler negative terminal	
	7	Green	GP13+ /GPO3+	GP13 input or GPO3 output optocoupler positive terminal	Default output
	8	Yellow	GP13- /GPO3-	GP13 input or GPO3 output optocoupler negative terminal	Default output
	9	Blue	GPO1+ /STRB_OUT+	GPO1 or flash output positive terminal	Default flash
	10	Light purple	GPO1- /STRB_OUT-	GPO1 or flash output optocoupler negative terminal	Default flash
	11	Purple	GPO2+	GPO2 output optocoupler positive terminal	
	12	Orange	GPO2-	GPO2 output optocoupler negative terminal	

Parameter:

Parameter	Model	MV-XG51GC-T	MV-XG51GM-T
sensor		1/1.7" CMOS	
shutter type		Global shutter	
camera type		Color	Mono
Pixel size		9.0X9.0μm	
Effective Pixels		0.51MP	
Resolution@ Frame Rate		816X624@1594FPS	
pixel depth		12bit	
Sensitivity		4050mV 1/30s	
GPIO		2 inputs and 2 outputs, 1 configurable input and output, support trigger and flash sync mode	
Acquisition mode		Continuous/soft trigger/hard trigger	
Maximum gain (multiple)		125	
Exposure time range (ms)		0.0008~838	
Filter		Standard 650nm IR cut filter	Standard double-sided AR antireflection film
Frame buffer		256M Bytes	
User-defined data area		2K Bytes	
Video output format		Bayer8/Bayer12	Mono8/Mono12
Vision Standard Agreement		GigE Vision V1.2.GenICam	
Lens Mount		C-Mount	
Data interface		10 Gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G	
Power supply		External 12V power supply	
Power		<12W	
Dimensions		64x64x61.7mm(excluding lens mount and rear shell interface)	
Weight		<550g	
Operating temperature		0~50°C	
Operating humidity		20~80%(No condensation)	
storage temp		-30~60°C	
Storage humidity		20~95%(No condensation)	
Operating system		WIINXP/WIN7/8/10 32@64-bit system, Linux and ARM Linux driver (customizable), Android platform driver (customizable)Linux and ARM Linux driver (customizable), Android platform driver (customizable)	
Driver		Directshow component Halcon special component Labview special driver OCX component TWAIN component	
Programming language pack		C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Other functions		Support any 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, etc.	

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