

Product  
number

**MV-XGC1606GC/GM**

MV-XGC1606GC/GM has features of high definition, low noise, excellent performance, easy installation and usage and so on. It is suitable for industrial testing, biomedical, aerospace, scientific research, teaching education and other fields.

## Application industry:

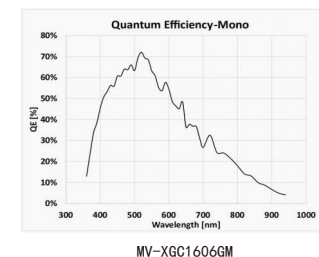
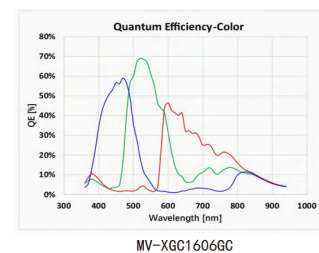
It is suitable for PCB, screen inspection, lithium battery, railway.



## Feature of product:

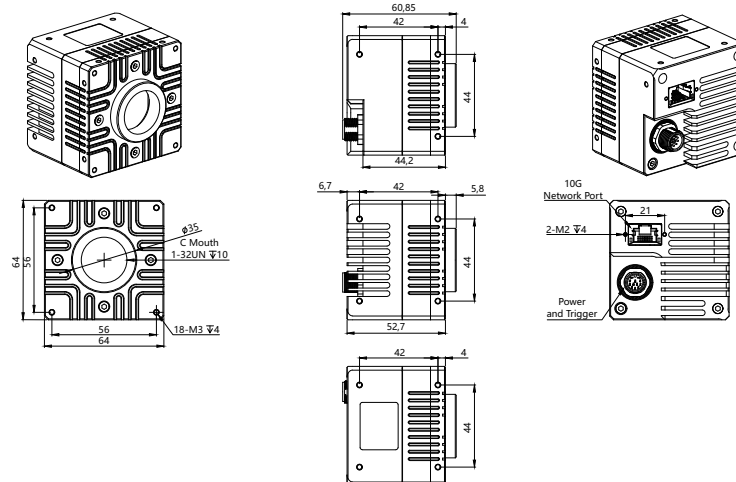
- Using standard 10 Gigabit network interface design, and CAT 6A cables can realize stable communication.
- Compared with the CameraLink interface with the capture card, the cost is greatly reduced.
- The longest transmission distance can reach 100 meters, and the industrial field wiring is no longer 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 have the same SDK as Gigabit cameras, shortening customer development cycle.

## Spectral response curve:



## Mechanical Specifications:

unit:mm



MV-XGC1606GC/GM-T-C

**TECHNICAL PARAMETER**

Specifications	Model	MV-XGC1606GC	MV-XGC1606GM
Sensor		4/3"	
Sensor type		CMOS	
Camera type		Color	Mono
Pixel size		3.5um x 3.5um	
Effective pixels		16MP	
Resolution @ frame rate		4096x4096 MAX@45.25fps	
Exposure mode		Global exposure	
Dynamic range		68dB	
Sensitivity		3.9V/lux·s	
GPIO		2 input and 2 output, 1 way configurable input and output, supports trigger and strobe sync modes	
Output pixel width		12bit	
AD width		14bit	
Frame buffer		1GB	
Time of exposure		0.0053~88919.2395ms	
Maximum gain (multiple)		16	
User EEPROM		2KB	
Frequency output format		Bayer GR 8/12bit、BGR 8bit、RGB 8bit、YUV422 16bit	Mono 8/12bit
Visual standard protocol		GigE Vision、GenICam	
Lens interface		C-Mount	
Data interface		10 Gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G	
Power supply		24V (±10%)	
Power		<10W	
Boundary dimension		64X64X52.7(mm) (Lens base and rear shell interface are not included)	
Weight		<350g	
Working temperature		0~50℃	
Working humidity		20~80%(No Condensation)	
Storage temperature		-30~60℃	
Storage humidity		20~95%(No Condensation)	
Operating system		WINXP, WIN7/8/10/11 32&64 bit system, Linux 32&64 bit system	
Drive program		Directshow components Halcon special components Labview dedicated drive OCX components TWAIN components	
Programming language		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.	

[www.mindvision.com.cn](http://www.mindvision.com.cn)

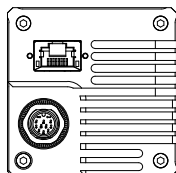

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## Line Sequence Definition



Port	Pin No.	Line Color	Signal name	Description	Remarks
Port A	1	Black	PWR-	Camera power input negative terminal	
	2	Red	PWR+	Camera power input positive terminal	
	3	Gray	GPI_1+/TRIG_IN+	GPI_1 or trigger input optocoupler positive terminal	Default is trigger
	4	Pink	GPI_1-/TRIG_IN-	GPI_1 or trigger input optocoupler negative terminal	Default is trigger
	5	Brown	GPI_2+	GPI_2 input optocoupler positive terminal	
	6	White	GPI_2-	GPI_2 input optocoupler negative terminal	
	7	Green	GPI_3+/GPO_3+	GPI_3 input or GPO_3 output positive terminal	Default is output
	8	Yellow	GPI_3-/GPO_3-	GPI_3 input or GPO_3 output negative terminal	Default is output
	9	Blue	GPO_1+/STRB_OUT+	GPO_1 or strobe output optocoupler positive terminal	Default is strobe
	10	Light green	GPO_1-/STRB_OUT-	GPO_1 or strobe output optocoupler negative terminal	Default is strobe
	11	Purple	GPO_2+	GPO_2 output optocoupler positive terminal	
	12	Orange	GPO_2-	GPO_2 output optocoupler negative terminal	

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