MV-4701C/M-10G

HIFLY TECHNOLOGY

FEATURES

● Build in a fan interface to effectively control the camera temperature.

● The cost of the interface with the capture card is greatly reduced.

● With standard 10 Gigabit Ethernet interface design, the CAT6A network cable can realize more stable communication, and the cost is greatly reduced compared to a capture card with CameraLink interface.

● The furthest transmission distance is up to 100 meters, and the industrial field wiring is no longer restricted; it is also compatible with Gigabit Ethernet.

● The effective bandwidth is 1200MByet, which is 10 times of a Gigabit Ethernet, it greatly reduces the image transmission time and delay.

● Support GigEVision, GenICam standard and the same SDK as Gigabit camera, shorten the development time for customers.

SPECIFICATIONS

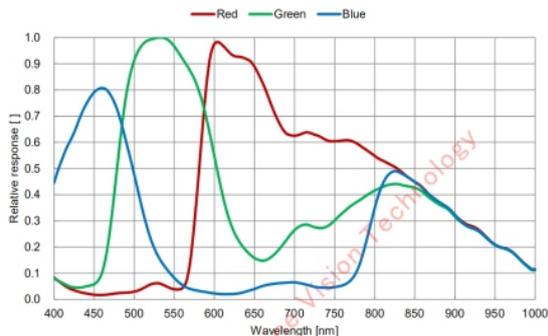| Model \ Specifications	MV-4701C-10G	MV-4701M-10G
Sensor	1.4" IMX492, CMOS	
Shutter	Rolling shutter	
Color/Mono	Color	Mono
Pixel Size	2.315X2.315µm	
Resolution	47MP	
Frame Rate	8240X5628@24FPS	
Pixel Bit Depth	12bit	
Sensitivity	87.69mV 1/30s	
I/O Port	2 inputs and 2 outputs, 1 configurable input and output, support trigger and flash sync mode	
Synchronization	Continuous/software trigger/hardware trigger	
Maximum Gain	22	
Exposure Time(ms)	0.007~5000	
Filter	Standard 650nm IR cut filter	Standard double-sided AR antireflection film
Frame Buffer	256M Bytes	
Camera Custom Data	2K Bytes	
Video Output Format	Bayer8/Bayer12	Mono8/Mono12
Visual Standard Protocol	GigE Vision V1.2, GenICam	
Lens Mount	M58-Mount, optional F-Mount adapter ring (flange distance 11.48mm)	
Data Interface	10 Gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G	
Power Requirements	External 12V power supply	
Power Consumption	<12W	
Dimensions	64x64x59.5mm(excluding lens mount and rear shell interface)	
Weight	＜500g	
Working Temperature	0~50℃	
Working Humidity	20~80%（Non-condensation）	
Storage Temperature	-30~60℃	
Storage Humidity	20~95%（Non-ccondensation）	
Support 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)	
Drivers	Directshow component Halcon special component Labview special driver OCX component TWAIN component	
Programming Language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Programmable Control	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.	

I/O Connector

10GigE series

Port A

RJ45 — DC
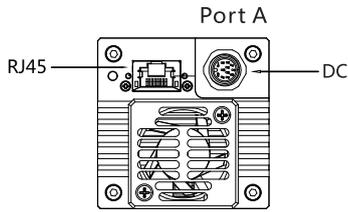
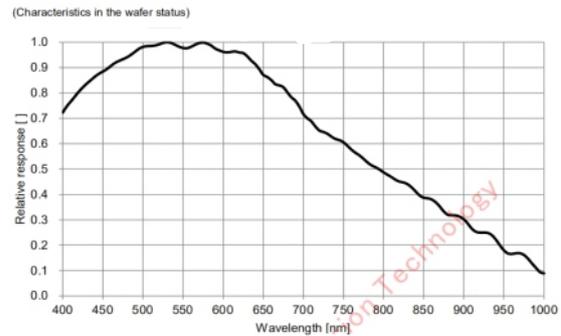| Port	Pin No	Line color	Signal name	Description	Remarks
Port A	1	Black	PWRGND	Camera power input negative terminal	
	2	Red	PWR12V	Camera power input positive terminal	
	3	Gray	GPI1+/ TRIG_IN+	GPI1 or trigger input optocoupler positive terminal	Trigger by default
	4	Pink	GPI1-/ TRIG_IN-	GPI1 or trigger input optocoupler negative terminal	Trigger by default
	5	Brown	GPI2+	GPI2 input optocoupler positive terminal	
	6	white	GPI2-	GPI2 input optocoupler negative terminal	
	7	Green	GPI3+/GPO3+	GPI3 input or GPO3 output optocoupler positive terminal	Default output
	8	Yellow	GPI3-/GPO3-	GPI3 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	

DIMENSIONS

Unit (mm)
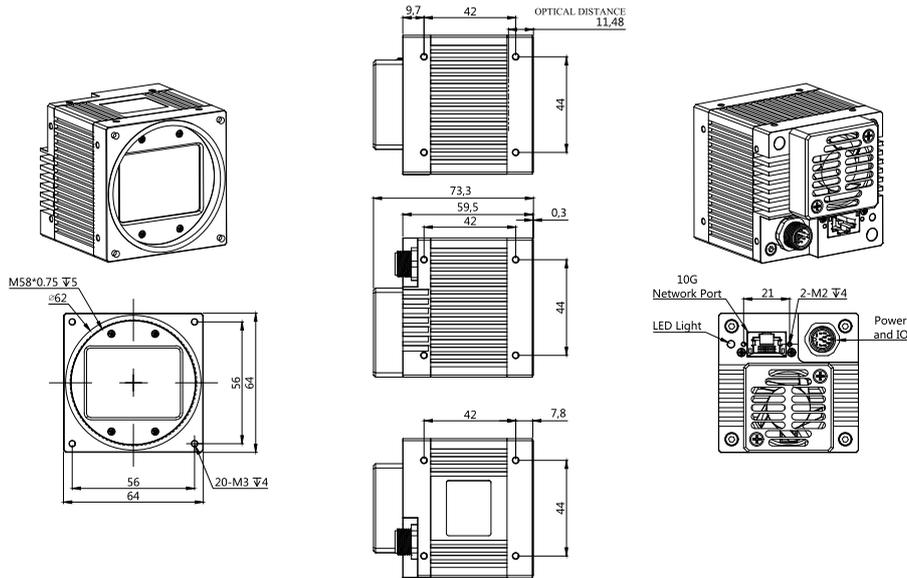
SPECTROGRAMS

MV-4701C-10G

MV-4701M-10G