MV-501RC/M-GE

FEATURES

● 100 meter distance stable transmission, supports POE power supply.

● Compatible with VISION standards, the free drive directly supports software such as Halcon and VisionPro.

● Support external trigger and flash sync, up to 7 GPIO, all optoelectronic isolation.

● The built-in image processing hardware acceleration, reduce the host CPU occupancy rate.

● The special packet retransmission technology, to ensure reliable data transmission.

● Excellent SDK ,like USB cameras, plug and play.

● Support multiple cameras work at the same time, the network can be arbitrary.
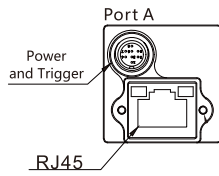
SPECIFICATIONS

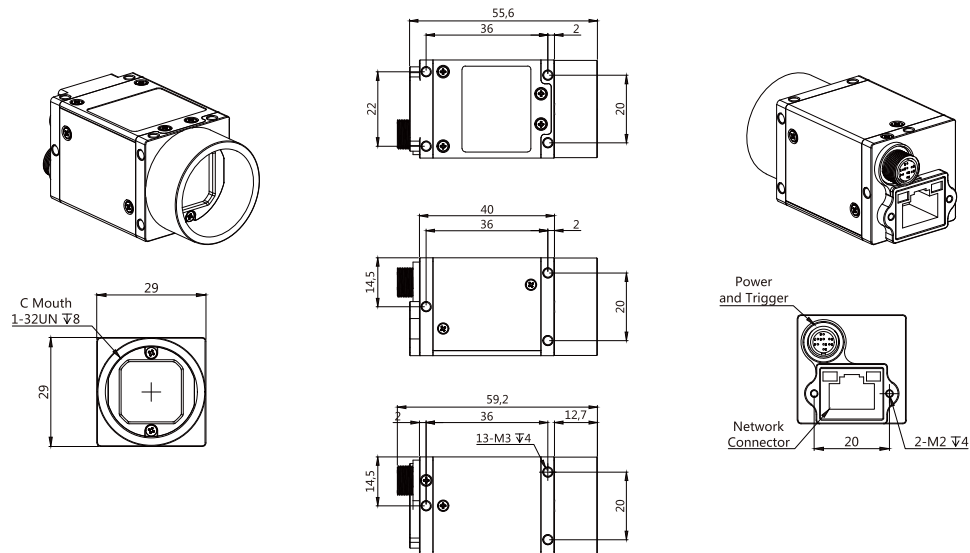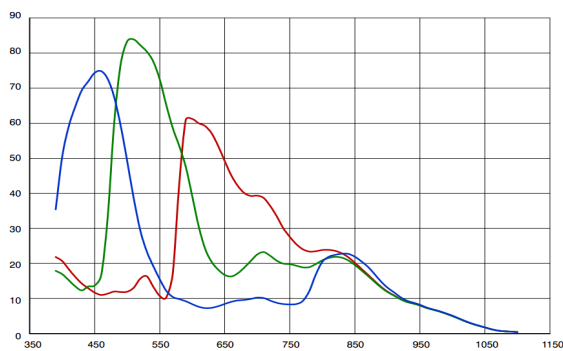| Model / Specifications	MV-501RC-GE	MV-501RM-GE
Sensor	1/2.5″ CMOS, AR0521	
Shutter	Rolling	
Color/Mono	Color	Mono
Pixel Size	2.2X2.2μm	
Resolution	5MP	
Frame Rate	2592X1944@24FPS	
Pixel Bit Depth	10bit	
Sensitivity	18.8 ke-/lux*sec	36 ke-/lux*sec
I / O Port	1 way optical isolation input, one way optical isolation output; Optional 3 input 4 output	
Synchronization	Continuous / software trigger / hardware trigger	
Maximum Gain	15	
Exposure Time(ms)	0.02~155.5	
Filter	Standard 650nm Infrared Cut-off Filter	Standard double-sided AR-enhanced film
Frame Buffer	32M Bytes	
Camera Custom Data	2K Bytes	
Video Output Format	Bayer8/Bayer12	Mono8/Mono12
Visual Standard Protocol	GigE Vision V1.2, GenICam	
Lens Mount	C-mount is default, optional C or CS interface (can provide M12 lens transfer interface accessories)	
Data Interface	RJ45 Gigabit Ethernet interface, backward compatible with 100M network standard	
Power Requirements	9-24V/POE(POE is optional)	
Power Consumption	<2.5W	
Dimensions	29(mm)X29(mm)X40(mm) (excluding lens base and rear housing ports)	
Weight	<75g	
Working Temperature	0~50℃	
Working Humidity	20-80% (Non-condensing)	
Storage Temperature	-30-60°C	
Storage Humidity	20-95% (Non-condensing)	
Support System	WINXP, WIN7/8/10 32&64-bit systems, Linux and ARM Linux drivers and Android platform drivers (customizable)	
Drivers	DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components	
Programming Language	C / C++ / C# / VB6 / VB.NET / Delphi / BCB / Python	
Programmable Control	Image size (ROI), camera, exposure time, GAMMA, contrast, brightness, custom LUT, mirror flip, RGB color gain, saturation, sharpness, color to mono, color temperature correction, anti-color, Color.trigger mode, frame rate control	

I/O Connector

Single connector

Port A

Power and Trigger

RJ45

Double connector

Port A   Port B

Power and Trigger

GPIO Connector

RJ45
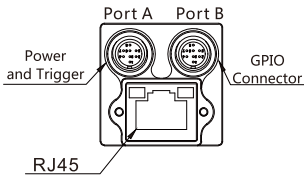
Port	Pin No	Line color	Signal name	Description	Remarks
Port A	1	white	GPI1+/TRIG_IN+	GPI1 positive/trigger input positive	Default is trigger input
	2	Green	GPO1+/STRB_OUT+	Positive GPO1/Flash Output Positive	The default is flash output
	3	Yellow	GPO1-/STRB_OUT-	GPO1 Negative/Flash Output Negative	The default is flash output
	4				
	5	Black	PWRGND	Camera power input negative	
	6	Brown High soft blue	GPI1-/TRIG_IN-	Camera power input negative	Default is trigger input
	7	Red	PWR12V	Positive camera power input	
	8				
Port B	1	white	GPO4+	GPO4 positive output	
	2	Green	GPO2+	GPO2 positive output	
	3	Yellow	GPO3+	GPO3 positive output	
	4				
	5	Black	GPIO_COM	GPIO common negative	
	6	Brown	GPI2+	GPI2 positive input	
	7	Red	GPI3+	GPI3 positive input	

DIMENSIONS (Unit: mm)

C Mouth
1-32UN ▽8

29
29

55,6
36
2
22
20

40
36
2
14,5
20

59,2
36
12,7
13-M3 ▽4
14,5
20

Power and Trigger

Network Connector

20   2-M2 ▽4

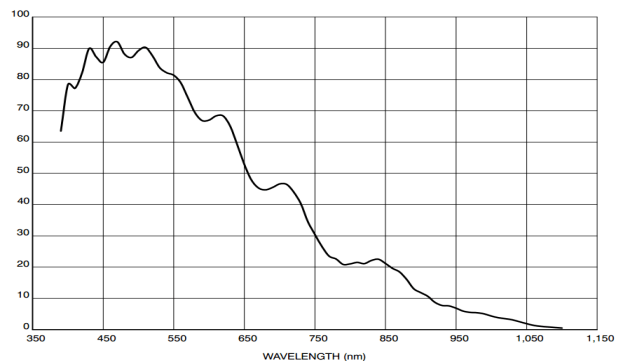## SPECTROGRAMS

MV-501RC-GE

MV-501RM-GE

Figure 20. AR0521 Mono Quantum Efficiency vs. Wavelength

WAVELENGTH (nm)