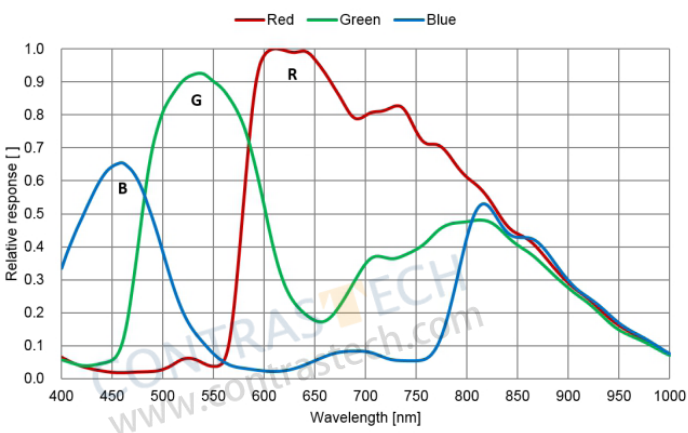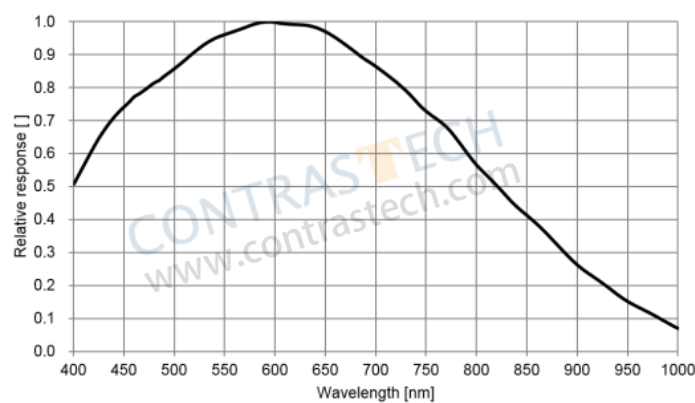# ContrasTech

GiGE VISION 5MP GigE Camera

- 5MP @up to 24 fps
- Adopts GigE interface, POE power supply optional
- Compatible with GigE Vision Protocol, GenICam Standard, and the third-party software based on these protocol and standard
- Support Windows、Linux
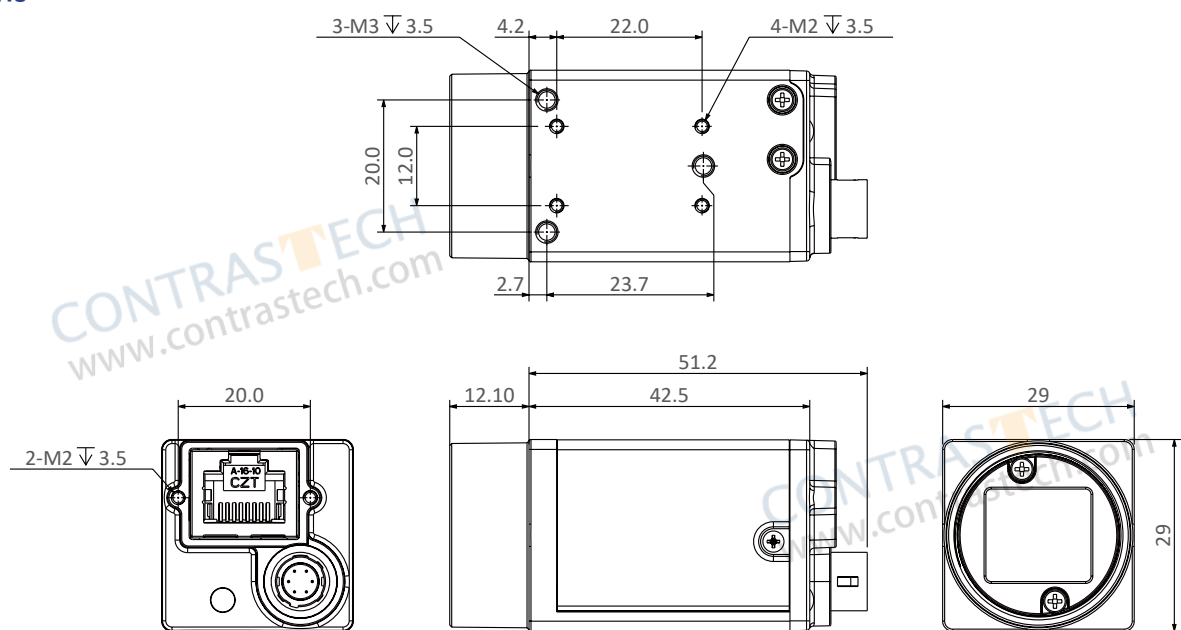- Up to 256MB local memory for burst transmission and retransmission

Applied range • Defect Detection • Surface Patch Detection • Visual Positioning • Size Measuring • QR Code Reading • VR/AR • Logistics

Camera	iCt9PMG50A-SE	iCt9PCG50A-SE	iCt90MG50A-SE	iCt90CG50A-SE	iCt9SMG50A-SE	iCt9SCG50A-SE
Resolution [H*V]	2448 × 2048					
Sensor	Sony IMX264					
Sensor Size	2/3"					
Sensor Tecchnology	Global, CMOS					
Pixel Size	3.45 μm × 3.45 μm					
Frame Rate	24 fps					
Data Bit	12 bit					
Exposure Time	1μs ~ 1s					
S/N Ratio	38 dB		40 dB		38 dB	
Dynamic Range	60 dB		73 dB		60 dB	
Mono/Color	Mono	Color	Mono	Color	Mono	Color
Image Format	Mono8/10/10P/Mono12/Mono12P	Mono8, BayerRG8/10/10P/12/12P, YUV422_8_UYVY, YUV422_8	Mono8/10/10P/Mono12/Mono12P	BayerRG8/10/12/BayerRG10/12P	Mono8/10/10P/Mono12/Mono12P	Mono8, BayerRG8/10/10P/12/12P, YUV422_8_UYVY, YUV422_8
Interface	GigE					
Synchronization	Via hardware trigger、software trigger or free run mode					
Housing Size	29.0 × 29.0 × 42.0 mm (98g)(not including lens mount and rear case connector)					
Operating Temperature	-30~80 ° C (Storage), 0~50° C (Working)					
Lenses Mount	C-Mount					
Digital I/O	6Pin：Opto-isolated input x 1, opto-isolated output x 1, and bi-directional custom non-isolated I/O x 1					
Image Buffer	256MB		128MB		256MB	
Power Input	DC 9-24V, (PoE power supply optional)					
Power Consumption	12V @ ≈ 3.5W	12V @ ≈ 3.8W	12V @ ≈ 2.8W		12V @ ≈ 2.8W	
Driver	Mars Series Camera Software Suite (iCentral) or 3rd party GigE Vision Software					
Operating System	Windows, Linux					
Conformity	GigE Vision V2.0, GenICam					

Spectral Response

Dimensions

IO Interface Definitions
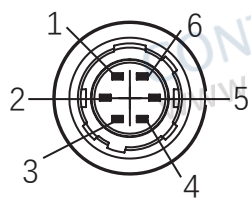
Color	Pin	Signal	Description
Red	1	-	+9~24VDC Camera Power
Green	2	Line1	Opto-coupler Isolated Input
White	3	Line2	GPIO(Non-isolated software configurable input and output I/O)
Blue	4	Line0	Opto-coupler Isolated Output
Brown	5	GND	Opto-coupler Isolation Signal Ground (ISO_GND)
Black	6	-	DC Camera Power Ground and GPIO Signal Ground (GND)

The wire color of this user manual is the color of ContrasTech. If you use other manufacturers' cable color definitions may be different, random connection may cause the camera to burn out, please connect according to the I/O port type and pin definition or contact our technical staff for advise.

ContrasTech offers suitable cables. contact your sales representative to order cables.