# ContrasTech

GigE VISION | **12MP GigE Camera**

- 12MP @up to 10 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	iCt9PMG120A-SE	iCt9PCG120A-SE	iCt90MG120A-SE	iCt90CG120A-SE
Resolution [H*V]	4000 × 3000			
Sensor	Sony IMX226			
Sensor Size	1/1.7"			
Sensor Tecchnology	Rolling, CMOS			
Pixel Size	1.85 μm × 1.85 μm			
Frame Rate	10 fps			
Data Bit	12 bit			
Exposure Time	16 μs~1 s		28.4 μs~1 s	
S/N Ratio	38 dB		40 dB	
Dynamic Range	60 dB		73 dB	
Mono/Color	Mono	Color	Mono	Color
Image Format	Mono8/10/10P/12/12P	Mono8,BayerRG8/10/10P/12/12P, YUV422_8_UYVY,YUV422_8	Mono8/10/10P/12/12P	BayerRG8/10/12/10P/12P
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	
Power Input	DC 9-24V, (PoE power supply optional)			
Power Consumption	12V @ ≈ 3.1W	12V @ ≈ 3.5W	12V @ ≈ 2.5W	
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
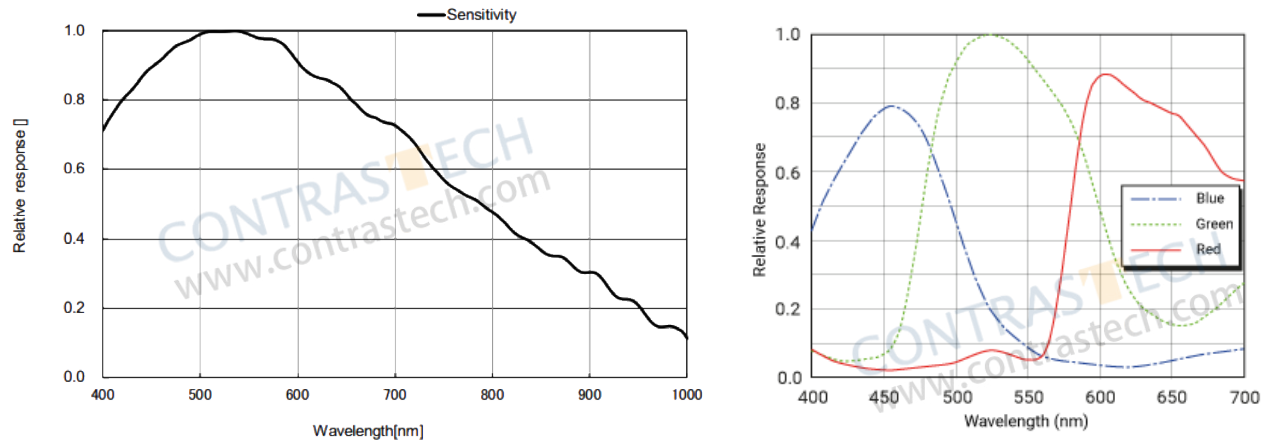
Dimensions
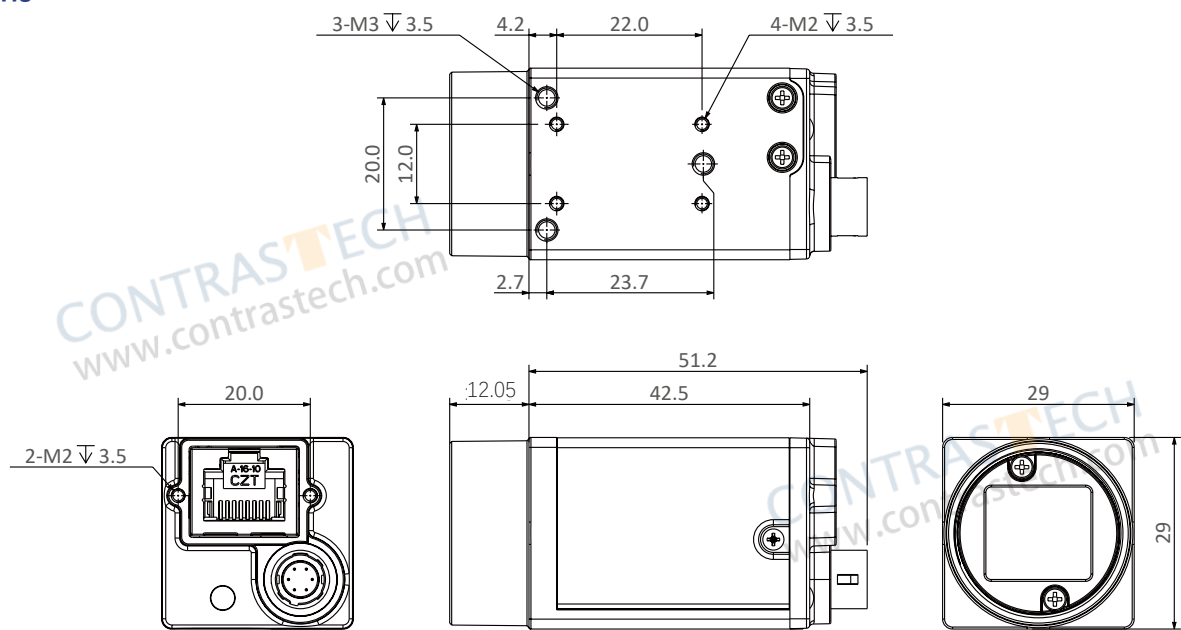
IO Interface Definitions
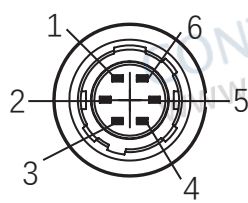
Color	Pin	Signal	Description
Red	1	-	+9~24VDC Camera Power
Green	2	Line1	Opto-coupler Isolated Input
White	3	Line2	GPIO(Non-isolated software configurable input and output I/O)
Blue	4	Line0	Opto-coupler Isolated Output
Brown	5	GND	Opto-coupler Isolation Signal Ground (ISO_GND)
Black	6	-	DC Camera Power 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.