



OPT CL1 Series Line Scan Cameras

OPT-CL1-C4-G3-03

- Gigabit Ethernet interface, transmission distance of 100m without relay.
- Support ISP functions including FFC, Black level, LUT, Gamma etc.
- Support Software Trigger, Hardware Trigger, Free Run Mode.
- Built-in large cache for data transfer or image retransmission in burst mode.
- Support multiple image data formats output, ROI, Reverse, etc.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on these protocol and standard.

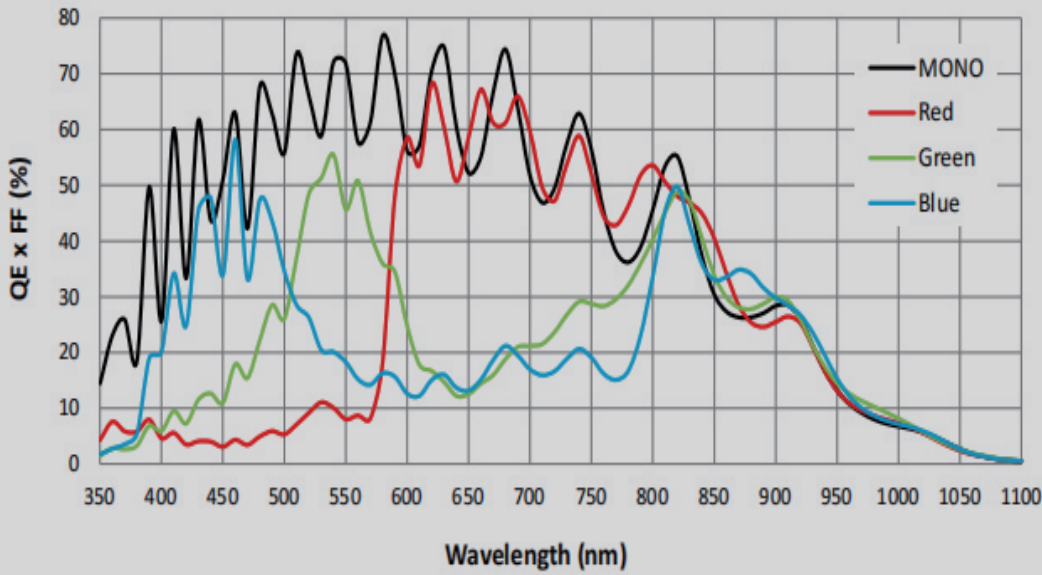


Specification

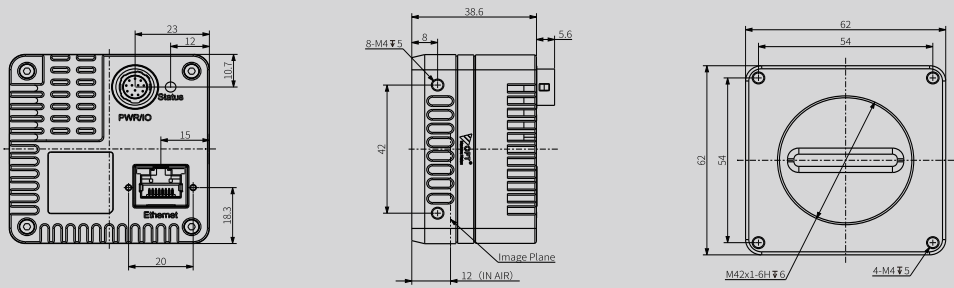
Model	Sensor type	Resolution	Line rate	Pixel size	Lens mount	Mono/Color
OPT-CL1-C4-G3-03	CMOS	4096 × 3	27 kHz	7 μm×7 μm	M42*1.0	Color

Name	4K Color GigE Line Scan Camera
Pixel format	Mono 8/10/10Packed/12/12Packed, BayerRG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Max. line rate	9 kHz@RGB 8, 27 kHz@BayerRG 8
Dynamic range	61.5 dB
SNR	40.2 dB
Gain	1 dB ~ 15.75 dB
Exposure time	4 μs ~30 ms
Trigger mode	Internal Trigger, External Trigger
Binning	No Supports
Data interface	GigE PoE
Power supply	12-pin Hirose interface power supply, Voltage range:12 ~ 24 VDC
Power consumption	3.7 W@24 VDC
Dimension	62 mm(W) × 62 mm(H) × 38.6 mm(D)
Weight	≈ 220 g
Temperature	Working temperature:0 ~ 50°C, Storage temperature:0 ~ 80°C
Operating system	Windows 7/10/11 32/64bits, Linux 64bits, MacOS 64bits
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, FCC

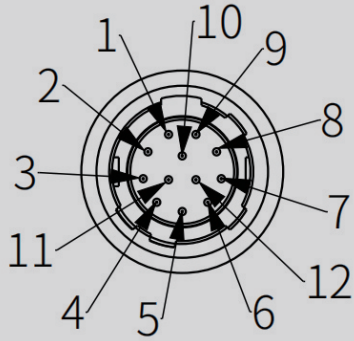
Spectral Response



Dimension (mm)



I/O Interface Description



PIN	Signal	Description
1	GND	Power Ground
2	Power	DC 24V Camera Power Supply
3	EncoderA+	Encoder Differential signal Input A+
4	EncoderA-	Encoder Differential signal Input A-
5	EncoderB-	Encoder Differential signal Input B-
6	EncoderB+	Encoder Differential signal Input B+
7	OUT_GND	Opto-isolated Output ground
8	Lineout1	Opto-isolated Output 1
9	Lineout2	Opto-isolated Output 2
10	IN_GND	Opto-isolated Input ground
11	Line2	Opto-isolated Input 2
12	Line1	Opto-isolated Input 1



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