



OPT CL1 Series Line Scan Cameras

OPT-CL1-C16-XG3-02

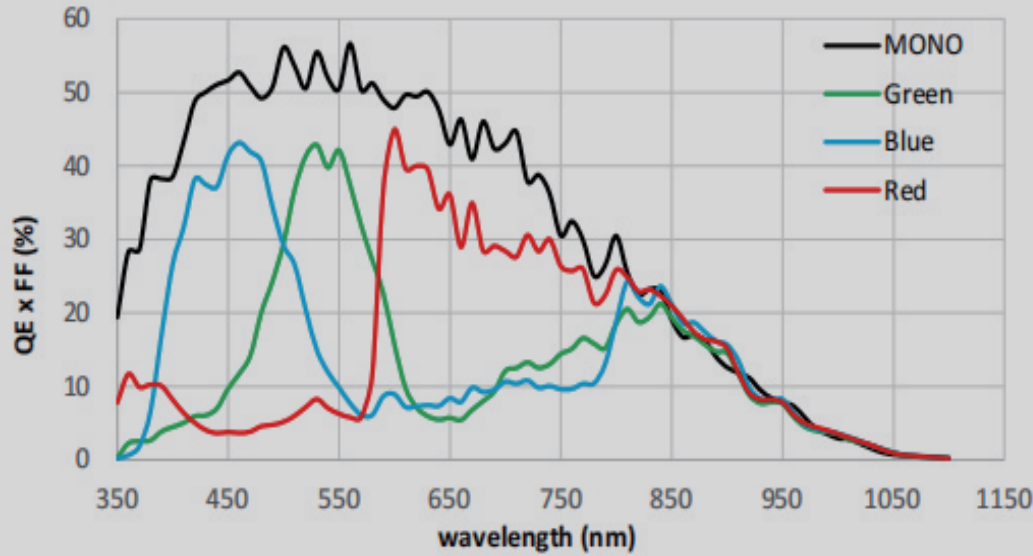
- Optical fiber transmission with a bandwidth of 10 Gbps, the transmission distance up to 300 meters.
- Support ISP functions including FFC, Black level, LUT, Gamma etc.
- Support Software Trigger, Hardware Trigger, Free Run Mode.
- Low power consumption and fanless design, no vibration, no dust accumulation.
- 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

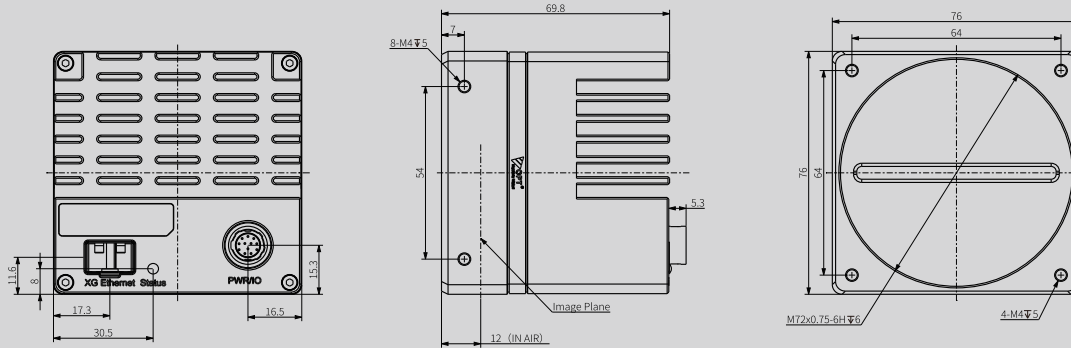
Model	Sensor type	Resolution	Line rate	Pixel size	Lens mount	Mono/Color
OPT-CL1-C16-XG3-02	CMOS	16384 × 2	36 kHz	3.5 μm × 3.5 μm	M72*0.75	Color

Name	16K Color 10GigE (SFP+) 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	23 kHz@RGB 8, 36 kHz@BayerRG 8
Dynamic range	60.2 dB
SNR	39.2 dB
Gain	1 dB ~ 15.5 dB
Exposure time	5 μs ~ 50 ms
Trigger mode	Internal Trigger, External Trigger
Binning	No Supports
Data interface	10 GigE (SFP+)
Power supply	12-pin Hirose interface power supply, Voltage range: 12 ~ 24 VDC
Power consumption	7.29 W@24 VDC
Dimension	76 mm(W) × 76 mm(H) × 69.8 mm(D)
Weight	≈ 535 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

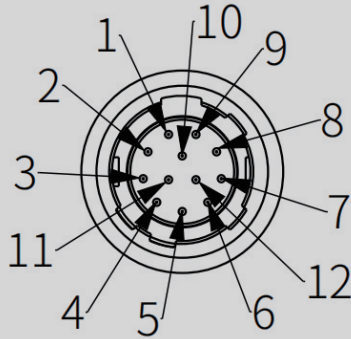
Spectral Response



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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