



OPT CM1 Series Area Scan Cameras

OPT-CM1-S003-GG1-01



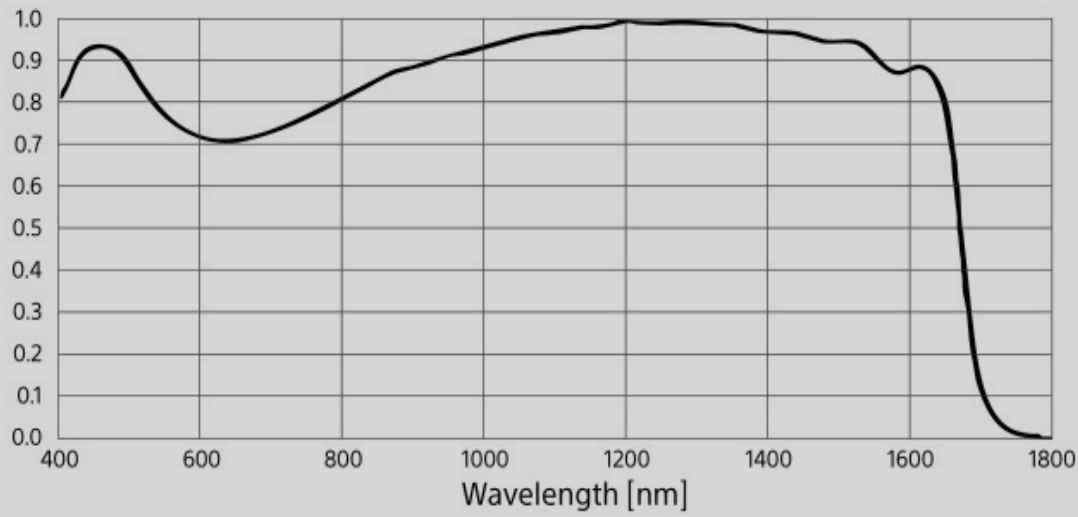
- Broad spectral range from 0.4 to 1.7 μm .
- Gigabit Ethernet interface, the maximum transmission distance of 100m without relay.
- Support ISP functions such as Gamma, LUT, Black level, Brightness, Contrast, etc.
- Support Hardware Trigger, Software Trigger, Free Run Mode.
- Built-in large buffer for burst mode data transmission or image retransmission.
- Support various image data formats output, ROI, Reverse, etc.
- Compatible with GigE Vision protocol and GenICam standard, seamlessly integrates with third-party software platforms.

Specification

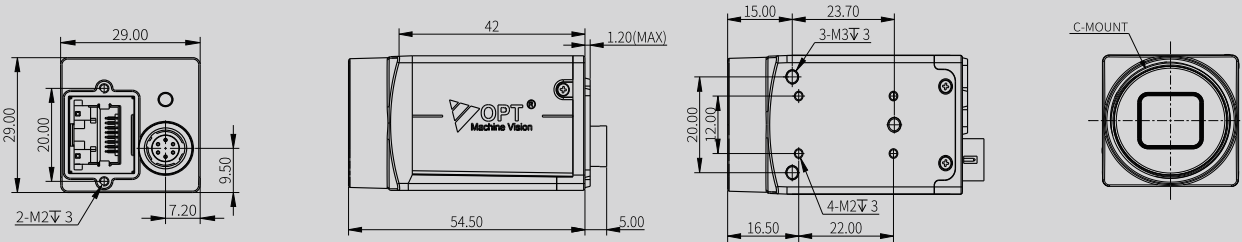
Model	Sensor model	Sensor type	Shutter type	Resolution	Frame rate	Pixel size	Sensor size	Mono/Color
OPT-CM1-S003-GG1-01	IMX991	InGaAs	Global	640 × 512	246 fps	5 μm ×5 μm	1/4"	Mono

Name	0.3 MP SWIR GigE Area Scan Camera
Spectral Response Range	400 ~ 1700nm
Pixel format	Mono 8 / 10 / 10Packed / 12 / 12Packed
Dynamic range	57 dB
SNR	50 dB
Gain	0 dB ~ 21 dB
Exposure time	7 μs ~ 10 s
Trigger mode	Software Trigger / Hardware Trigger / Free Run Mode
Reverse image	Horizontal Reverse, Vertical Reverse
Binning	No Support
Data interface	Gigabit Ethernet (1000Mbit/s)
I/O interface	6-pin Hirose connector: 1×Opto-isolated input, 1×Opto-isolated output, 1×bi-directional non-isolated I/O
Power supply	12 VDC to 24 VDC, supports PoE
Power consumption	2.47 W@12 VDC
Lens mount	C-Mount
Dimension	29 mm × 29 mm × 42 mm
Weight	≈ 90 g
Temperature	Working temperature: 0 °C to 50 °C, Storage temperature: 0 °C to 80 °C
Operating system	Windows 7/10/11 32/64bits, Linux 64bits, MacOS 64bits
Compatibility	GigE Vision V2.0, GenICam

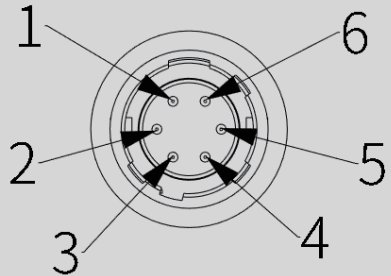
Spectral Response



Dimension (mm)



I/O Interface Description



PIN	Model	Description
1	Power	Power supply
2	Line1	Opto-isolated input
3	Line3	GPIO (I/O can be configured for non-isolated software)
4	Line2	Opto-isolated output
5	ISO_GND	Opto-isolated signal ground
6	GND	Power ground and GPIO signal ground (GND)



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