OPT® Machine Vision

OPT CC1 Series Area Scan Cameras

OPT-CC1-M050-UG1-12

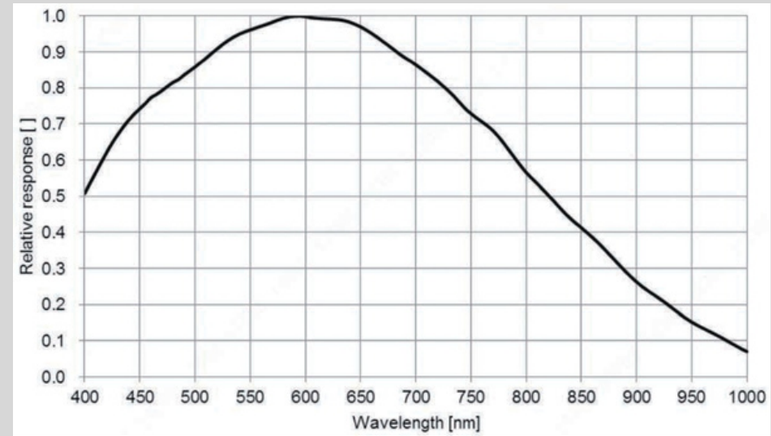
- USB3.0 interface, theoretical transmission bandwidth of 5Gbps, supports power supply via USB interface.
- Support ISP functions including Gamma, LUT, Black level, Brightness and Contrast etc.
- Support Hardware Trigger, Software Trigger, Free Run Mode.
- Built-in large-capacity frame cache, used for data transmission or image retransmission in burst mode.
- Support multiple image data formats output, ROI, Reverse and AutoFunction etc.
- Compatible with USB3 Vision Protocol and GenICam Standard, convenient for third-party connection.

Specification

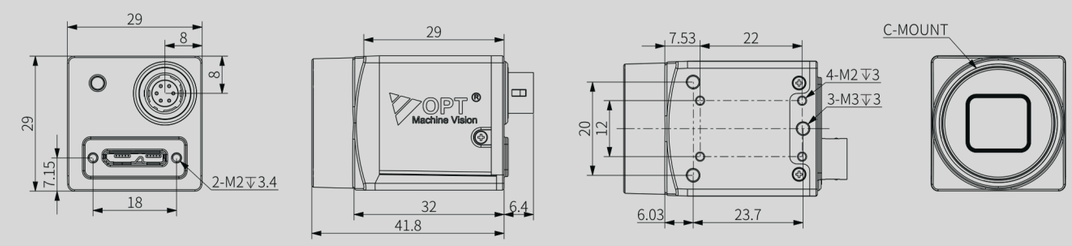
Model	Sensor model	Sensor type	Shutter type	Resolution	Frame rate	Pixel size	Sensor size	Mono/Color
OPT-CC1-M050-UG1-12	**IMX250**	CMOS	**Global**	**2448 × 2048**	**77.3 fps**	**3.45 µm×3.45 µm**	**2/3"**	**Mono**

Name	5 MP Mono USB3.0 Area Scan Camera
Pixel format	Mono 8/10/10Packed/12/12Packed
Max Frame rate	**77.3** fps @**2448 × 2048 Mono** 8
Dynamic range	71 dB
SNR	40 dB
Gain	0 dB ~24 dB
Exposure time	1 µs ~ 10 s
Trigger mode	Software Trigger/Hardware Trigger/Free Run Mode
Reverse image	Horizontal Reverse, Vertical Reverse
Binning	No Support
Data interface	USB 3.0
I/O interface	6-pin Hirose connector provides power and I/O: 1 × Opto-isolated input (Line 1), 1 × Opto-isolated output (Line 2), 1 × bi-directional non-isolated I/O (Line 3)
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply
Power consumption	2.5 W@5 VDC
Lens mount	C-Mount
Dimension	29 mm × 29 mm × 29 mm
Weight	≈ 75 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	USB3 Vision, GenICam
Certification	CE, RoHS, FCC, UL

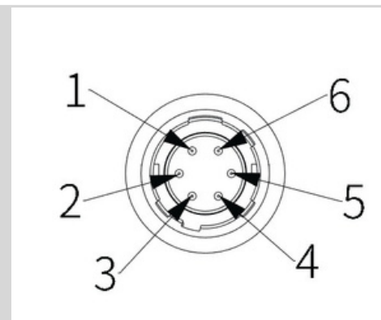
Spectral Response



Dimension (mm)



I/O Interface Description



PIN	Signal	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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