



OPT CC1 Series Area Scan Cameras



### OPT-CC1-M120-UG3-00

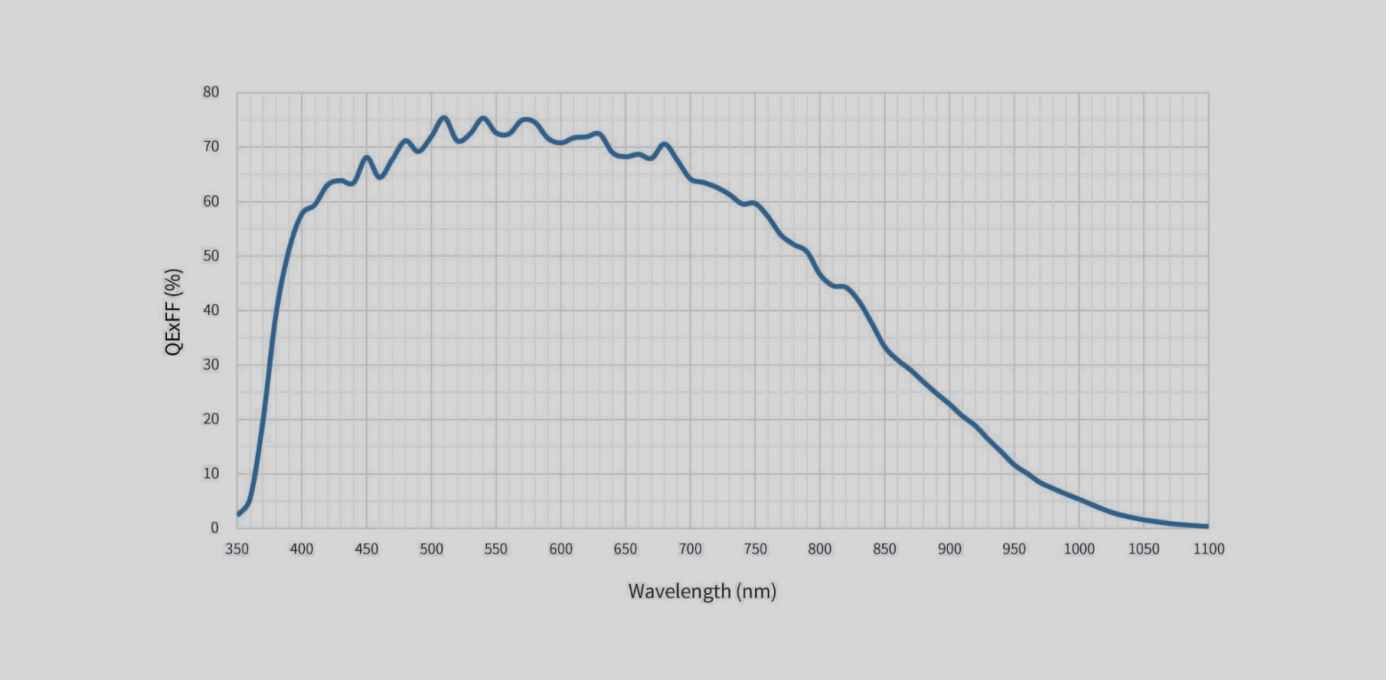
- USB3.0 interface, theoretical transmission bandwidth of 5Gbps, supports power supply via USB interface.
- Support ISP functions including Gamma, LUT, Black level, Brightness and Contrast etc.
- Support Hardware Trigger, Software Trigger, Free Run Mode.
- Built-in large-capacity frame cache, used for 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

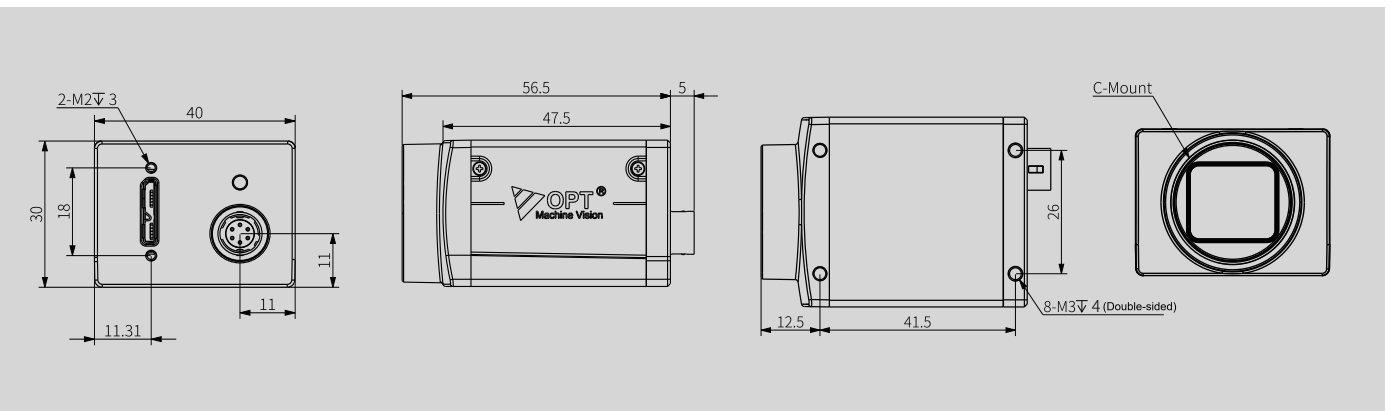
| Model               | Sensor model | Sensor type | Shutter type | Resolution  | Frame rate | Pixel size    | Sensor size | Mono/Color |
|---------------------|--------------|-------------|--------------|-------------|------------|---------------|-------------|------------|
| OPT-CC1-M120-UG3-00 | GMAX3412     | CMOS        | Global       | 4096 × 3072 | 30.8 fps   | 3.4 μm×3.4 μm | 1.1"        | Mono       |

|                   |                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | 12 MP Mono USB3.0 Area Scan Camera                                                                                                                               |
| Pixel format      | Mono 8/10/10Packed/12/12Packed                                                                                                                                   |
| Max Frame rate    | 30.8 fps @4096 × 3072 Mono 8                                                                                                                                     |
| Dynamic range     | 68.9 dB                                                                                                                                                          |
| SNR               | 39 dB                                                                                                                                                            |
| Gain              | 1 dB ~17.59 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    | 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 | 3.38 W@5 VDC                                                                                                                                                     |
| Lens mount        | C-Mount                                                                                                                                                          |
| Dimension         | 40 mm × 30 mm × 47.5 mm                                                                                                                                          |
| Weight            | ≈ 105 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                                                                                                                                                |

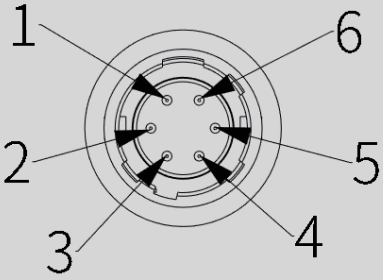
Spectral Response



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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