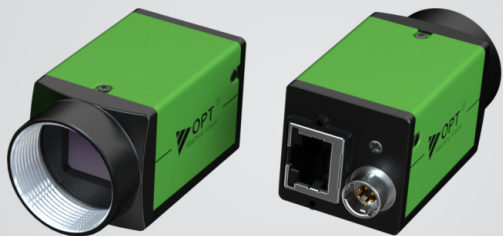




OPT CM1 Series Area Scan Cameras

OPT-CM1-S013-GG1-01



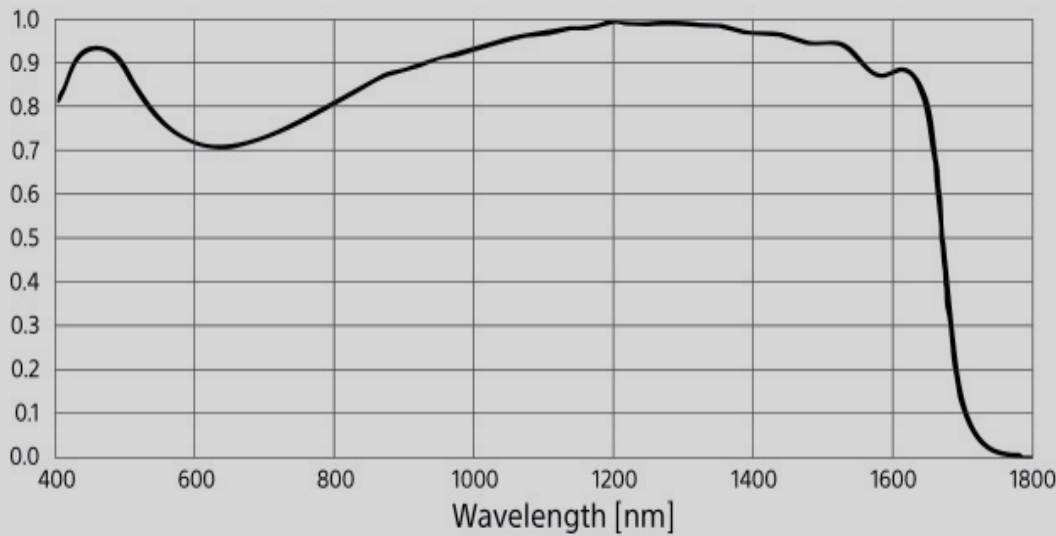
- Broad spectral range from 0.4 to 1.7  $\mu\text{m}$ .
- Gigabit Ethernet interface, the maximum transmission distance of 100m without relay.
- Support ISP functions such as Gamma, LUT, Black level, Brightness, Contrast, etc.
- Support Hardware Trigger, Software Trigger, Free Run Mode.
- Built-in large 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

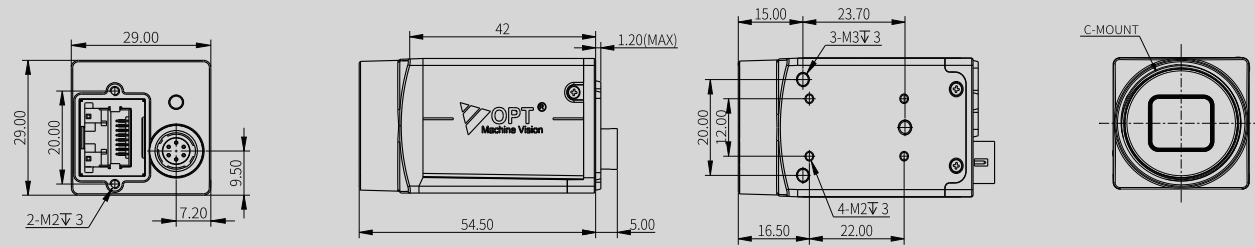
| Model               | Sensor model | Sensor type | Shutter type | Resolution  | Frame rate | Pixel size                       | Sensor size | Mono/Color |
|---------------------|--------------|-------------|--------------|-------------|------------|----------------------------------|-------------|------------|
| OPT-CM1-S013-GG1-01 | IMX990       | InGaAs      | Global       | 1280 × 1024 | 89.8 fps   | 5 $\mu\text{m}$ ×5 $\mu\text{m}$ | 1/2"        | Mono       |

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| Name                    | 1.3 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 $\mu\text{s}$ ~ 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       | 2.52 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                                                                                |

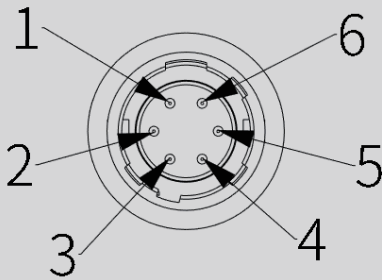
Spectral Response



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   |                                                        |
| 5   | ISO_GND | Opto-isolated signal ground                            |
| 6   | GND     | Power ground and GPIO signal ground (GND)              |



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