

# CK-U40MI/CI-126GS V2

0.4 MP 1/2.9" GigE Area Scan Camera



GEN*<i>i>*CAM

*GiG***E**

## Introduction

CK-U40MI/CI-126GS V2 camera adopts Sony® IMX297 sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 126.5 fps in full resolution.

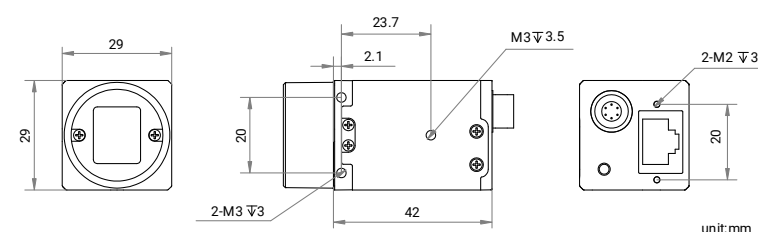
## Key Features

- Adopts low consumption design with stable performance.
- Supports auto and manual adjustment of gain, exposure time, etc.
- Supports hardware trigger, software trigger, and free run, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

## Applicable Industry

Electronics and semiconductor, factory automation, logistics and code reading, medicine package, etc.

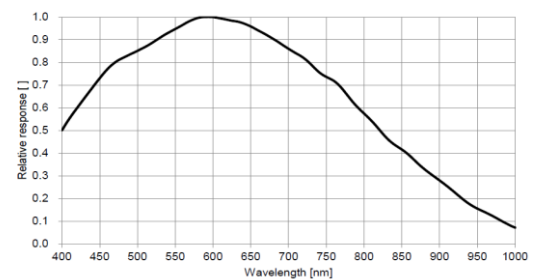
## Dimension



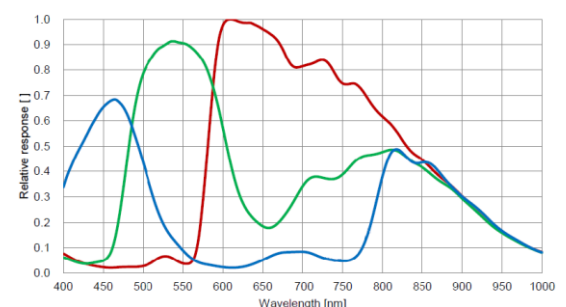
## Available Model

- Mono camera: CK-U40MI-126GS V2
- Color camera: CK-U40CI-126GS V2

## Sensor Quantum Efficiency



CK-U40MI-126GS V2



CK-U40CI-126GS V2

## Specification

|                    |                                                                                                                                                                         |                                    |                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------|
| Model              | CK-U40MI-126GS V2                                                                                                                                                       |                                    | CK-U40CI-126GS V2 |
| Performance        |                                                                                                                                                                         |                                    |                   |
| Sensor type        | CMOS, global shutter                                                                                                                                                    |                                    |                   |
| Sensor model       | Sony® IMX297                                                                                                                                                            |                                    |                   |
| Pixel size         | 6.9 μm × 6.9 μm                                                                                                                                                         |                                    |                   |
| Sensor size        | 1/2.9"                                                                                                                                                                  |                                    |                   |
| Resolution         | 720 × 540                                                                                                                                                               |                                    |                   |
| Max. frame rate    | 126.5 fps @ 720 × 540 Mono 8                                                                                                                                            | 126.5 fps @ 720 × 540 Bayer RG 8   |                   |
| Dynamic range      | 74 dB                                                                                                                                                                   |                                    |                   |
| SNR                | 41 dB                                                                                                                                                                   |                                    |                   |
| Gain               | 0 dB to 24 dB                                                                                                                                                           |                                    |                   |
| Exposure time      | Ultrashort exposure mode: 1 μs to 14 μs<br>Standard exposure mode: 15 μs to 10 sec                                                                                      |                                    |                   |
| Exposure mode      | Off/Once/Continuous exposure mode                                                                                                                                       |                                    |                   |
| Mono/color         | Mono                                                                                                                                                                    | Color                              |                   |
| Pixel format       | Mono 8/10/10Packed/12/12Packed                                                                                                                                          | Bayer RG 8/10/10Packed/12/12Packed |                   |
| Binning            | Supports 1 × 1, 2 × 2, 4 × 4                                                                                                                                            |                                    |                   |
| Decimation         | Supports 1 × 1, 2 × 2, 4 × 4                                                                                                                                            |                                    |                   |
| Reverse image      | Supports horizontal and vertical reverse image output                                                                                                                   |                                    |                   |
| Electrical feature |                                                                                                                                                                         |                                    |                   |
| Data interface     | Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)                                                                                              |                                    |                   |
| Digital I/O        | 6-pin P7 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2). |                                    |                   |
| Power supply       | 9 VDC to 24 VDC, PoE is optional                                                                                                                                        |                                    |                   |
| Power consumption  | Typ. 2 W @ 12 VDC                                                                                                                                                       |                                    |                   |
| Mechanical         |                                                                                                                                                                         |                                    |                   |
| Lens mount         | C-mount                                                                                                                                                                 |                                    |                   |
| Dimension          | 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")                                                                                                                              |                                    |                   |
| Weight             | Approx. 100 g (0.2 lb.)                                                                                                                                                 |                                    |                   |
| Ingress protection | IP30 (under proper lens installation and wiring)                                                                                                                        |                                    |                   |
| Temperature        | Working temperature: 0 °C to 50 °C (32 °F to 122 °F)<br>Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)                                                         |                                    |                   |
| Humidity           | 20% RH to 95% RH (no condensation)                                                                                                                                      |                                    |                   |
| General            |                                                                                                                                                                         |                                    |                   |
| Client software    | CKVisionBuilder or third-party software meeting with GigE Vision Protocol                                                                                               |                                    |                   |
| Operating system   | 32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux                                                                                                              |                                    |                   |
| Compatibility      | GigE Vision V2.0, GenICam                                                                                                                                               |                                    |                   |
| Certification      | CE, RoHS, KC                                                                                                                                                            |                                    |                   |