

# HC-CL042-90GM/GC

## 4096 P CMOS GigE Line Scan Camera



GEN*i*CAM

**GigE**  
VISION

### Introduction

HC-CL042-90GM/GC camera adopts Gpixel GL0402 sensor to provide high-quality image, and uses GigE interface to transmit images in real time. It adopts multiple ISP image algorithms, and supports single-frame trigger, multiple-frame trigger, trigger-width exposure, etc.

### Key Feature

- Supports auto and manual adjustment for exposure time, and manual adjustment for Gamma correction, LUT, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports high bandwidth image compression mode.
- Compact design and flexible installation.
- Compatible with GigE Vision Protocol V2.0 and GenICam Standard.

### Available Model

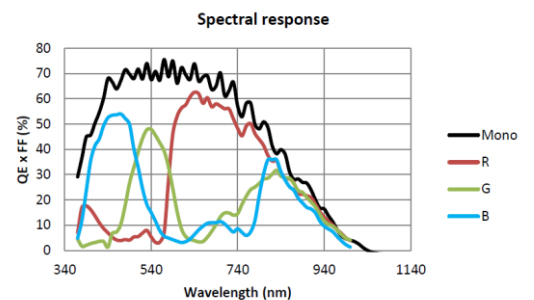
Mono camera: HC-CL042-90GM

Color camera: HC-CL042-90GC

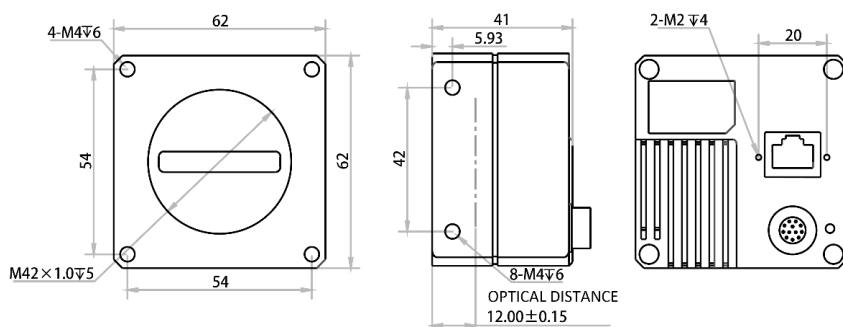
### Applicable Industry

Printing, textiles, railway, logistics, metallurgy, food, pharmaceutical manufacturing, material sorting, etc.

### Sensor Quantum Efficiency



### Dimension



# Specification

| Model                 | HC-CL042-90GM  | HC-CL042-90GC   |
|-----------------------|--|---|
| Camera                |  |   |
| Sensor type           | CMOS   |   |
| Pixel size            | 7 μm   |   |
| Resolution            | 4096 × 2   |   |
| Image mode            | Supports 1-line/2-TDI  | Standard mode   |
| Max. line rate        | 29 kHz @4096 × 2 mono 8  | 9 kHz @4096 × 2 RGB 8   |
|                       | 80 kHz @4096 × 2 mono 8<br>(high bandwidth function enabled)   | 29 kHz @4096 × 2 RGB 8<br>(high bandwidth function enabled)                               |
| Pixel format          | Mono 8/10/12, mono 10/12 Packed  | Mono 8/10/12, Bayer RG 8/10/10p/12/12p,<br>YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8 |
| Dynamic range         | 65.6 dB  |   |
| SNR                   | 40 dB  |   |
| Gain                  | Supports × 1.0/× 1.4/× 1.6/× 2.4/× 3.2   |   |
| Exposure time         | 5 μs to 10 ms  |   |
| Exposure mode         | Off/ Once/ Continuous, supports timed and trigger-width exposure   |   |
| Mono/color            | Mono   | Color   |
| Binning               | Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4   |   |
| Reverse image         | Supports horizontal reverse image output   |   |
| Trigger mode          | External trigger, internal trigger   |   |
| External trigger mode | Line trigger, frame trigger, line + frame trigger  |   |
| Image buffer          | 512 MB   |   |
| Electrical feature    |  |   |
| Data interface        | Gigabit Ethernet   |   |
| Digital I/O           | 12-pin Hirose connector provides power and I/O, including configurable differential input or single input × 2 (Line 0/3), bi-directional I/O × 1 (Line 2), and differential output × 2 (Line 1/4). |   |
| Power supply          | 12 VDC to 24 VDC   |   |
| Power consumption     | < 6.3 W@12 VDC   | < 7.0 W@12 VDC  |
| Mechanical            |  |   |
| Lens mount            | M42 *1.0, back focal length: 12 mm (0.5"), applicable to F-mount, C-mount and lens of other types via lens adapter   |   |
| Dimension             | 62 mm × 62 mm × 41 mm (2.4" × 2.4" × 1.6")   |   |
| Weight                | Approx. 280 g (0.62 lb.)   |   |
| Ingress protection    | IP40 (under proper lens installation and wiring)   |   |
| Temperature           | Working temperature: -20 °C to 55 °C (-4 °F to 131 °F)<br>Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)  |   |
| Humidity              | 5% to 95% RH, non-condensing   |   |
| General               |  |   |
| Client software       | MVS or the third-party software meeting with GigE Vision protocol  |   |
| Operating system      | 32/64-bit Windows XP/7/10, 32/64-bit Linux, and 64-bit MacOS   |   |
| Compatibility         | GigE Vision V2.0, GenICam  |   |
| Certification         | CE, FCC, RoHS, KC  |   |