

# AEGER-050024M/C

5 MP 1/2.5" CMOS GigE Area Scan Camera



GEN*i*CAM

GIG*E*  
VISION

## Introduction

AEGER-050024M/C camera adopts Aptina AR0521 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 24 fps in full resolution.

## Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Up to 128 MB local memory for burst transmission and retransmission.
- Supports auto exposure control, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

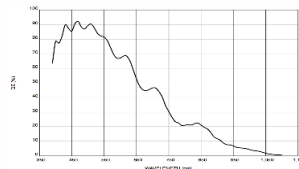
## Available Model

- Mono camera: AEGER-050024M
- Color camera: AEGER-050024C

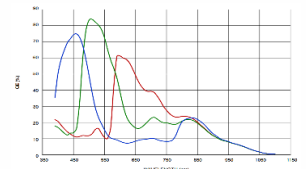
## Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, medical packing, quality inspection, etc.

## Sensor Quantum Efficiency

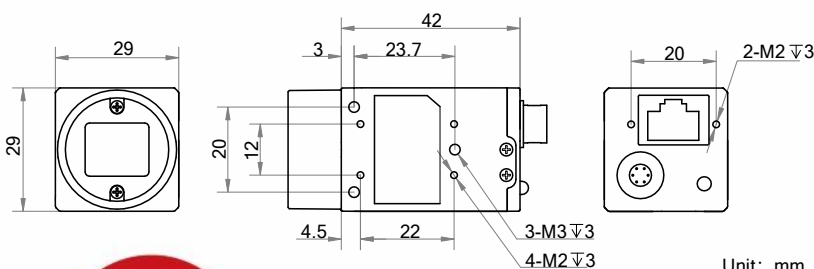


AEGER-050024M



AEGER-050024C

## Dimension



## Specification

| Model              | AEGER-050024M                                                                                                                                                               |                                                                                        | AEGER-050024C |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------|
| Camera             |                                                                                                                                                                             |                                                                                        |               |
| Sensor type        | CMOS, rolling shutter                                                                                                                                                       |                                                                                        |               |
| Sensor model       | Aptina AR0521                                                                                                                                                               |                                                                                        |               |
| Pixel size         | 2.2 μm × 2.2 μm                                                                                                                                                             |                                                                                        |               |
| Sensor size        | 1/2.5"                                                                                                                                                                      |                                                                                        |               |
| Resolution         | 2592 × 1944                                                                                                                                                                 |                                                                                        |               |
| Max. frame rate    | 24 fps @2592 × 1944                                                                                                                                                         |                                                                                        |               |
| Dynamic range      | 63 dB                                                                                                                                                                       |                                                                                        |               |
| SNR                | 37 dB                                                                                                                                                                       |                                                                                        |               |
| Gain               | 0 dB to 23 dB                                                                                                                                                               |                                                                                        |               |
| Exposure time      | 21 μs to 1 sec                                                                                                                                                              |                                                                                        |               |
| Exposure mode      | Off/Once/Continuous exposure mode                                                                                                                                           |                                                                                        |               |
| Mono/color         | Mono                                                                                                                                                                        | Color                                                                                  |               |
| Pixel format       | Mono 8/10/10p/12/12p                                                                                                                                                        | Mono 8/10/12, Bayer GB 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, BGR 8, RGB 8 |               |
| 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                                                                                                                       |                                                                                        |               |
| Image buffer       | 128 MB                                                                                                                                                                      |                                                                                        |               |
| Electrical feature |                                                                                                                                                                             |                                                                                        |               |
| Data interface     | Gigabit Ethernet, compatible with Fast Ethernet                                                                                                                             |                                                                                        |               |
| Digital I/O        | 6-pin Hirose 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, supports PoE                                                                                                                                               |                                                                                        |               |
| Power consumption  | Typ. 2.4 W@12 VDC                                                                                                                                                           |                                                                                        |               |
| Mechanical         |                                                                                                                                                                             |                                                                                        |               |
| Lens mount         | C-mount                                                                                                                                                                     |                                                                                        |               |
| Dimension          | 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")                                                                                                                                  |                                                                                        |               |
| Weight             | Approx. 68 g (0.15 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 70 °C (-22 °F to 158 °F)                                                             |                                                                                        |               |
| Humidity           | 20% to 80% RH, non-condensing                                                                                                                                               |                                                                                        |               |
| General            |                                                                                                                                                                             |                                                                                        |               |
| Client software    | MVS or 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                                                                                                                                                           |                                                                                        |               |

**HIKROBOT**

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