

# MV-CH050-60NM/NC

5 MP 2.5 GigE Area Scan Camera



GEN<i>i>CAM

GIG<i>i>VISION

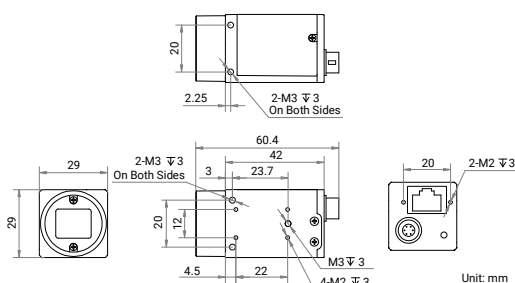
## Introduction

With 2.5 GigE interface, MV-CH050-60NM/NC camera adopts CMOS global sensor to provide high-quality images and transmit images in real time, and its max. frame rate can reach 60 fps in full resolution.

## Key Feature

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment of gain, exposure time, white balance, LUT, Gamma correction, etc., and supports HDR function.
- Supports ISP functions like CCM and Super Palette to provide high-quality images.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Adopts 2.5 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.

## Dimension



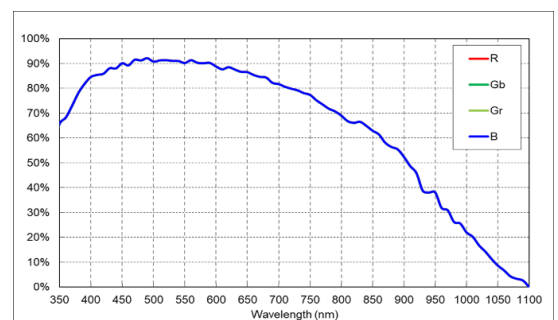
## Available Model

- Mono camera: MV-CH050-60NM
- Color camera: MV-CH050-60NC

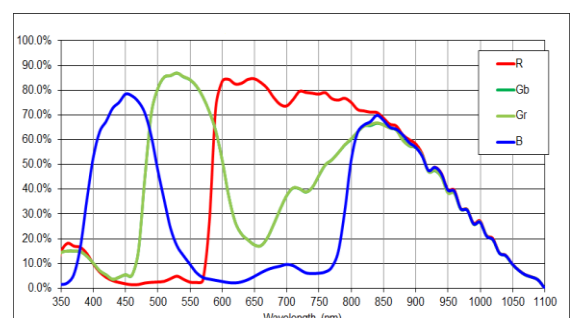
## Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medicine packaging, etc.

## Sensor Quantum Efficiency



MV-CH050-60NM



MV-CH050-60NC

# Specification

Model	MV-CH050-60NM	MV-CH050-60NC
<b>Performance</b>		
Sensor type	CMOS, global shutter	
Sensor model	Stacked BSI	
Pixel size	3.45 $\mu\text{m}$ $\times$ 3.45 $\mu\text{m}$	
Sensor size	2/3"	
Resolution	2448 $\times$ 2048	
Max. frame rate	60 fps @ 2448 $\times$ 2048 Mono 8	60 fps @ 2448 $\times$ 2048 Bayer GR 8
Dynamic range	69.6 dB	
SNR	44.1 dB	
Gain	0 dB to 24 dB	
Exposure time	5 $\mu\text{s}$ to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8/10/12, Bayer GR 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4	
Decimation	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4	
Reverse image	Supports horizontal and vertical reverse image output	
<b>Electrical features</b>		
Data interface	2.5 Gigabit Ethernet (2500 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)	
Digital I/O	6-pin P7 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports PoE	
Power consumption	Typ. 3.6 W @ 12 VDC	Typ. 3.7 W @ 12 VDC
<b>Mechanical</b>		
Lens mount	C-mount	
Dimension	29 mm $\times$ 29 mm $\times$ 42 mm (1.1" $\times$ 1.1" $\times$ 1.7")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: $-10$ $^{\circ}\text{C}$ to $45$ $^{\circ}\text{C}$ ( $-14$ $^{\circ}\text{F}$ to $113$ $^{\circ}\text{F}$ ) Storage temperature: $-30$ $^{\circ}\text{C}$ to $80$ $^{\circ}\text{C}$ ( $-22$ $^{\circ}\text{F}$ to $176$ $^{\circ}\text{F}$ )	
Humidity	20% RH to 95% RH (no condensation)	
<b>General</b>		
Client software	MVS 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	