

MV-CH250-90GM/GC/GN

25 MP 1.1" CMOS GigE Area Scan Camera



GEN*i*CAM

GIG*E* VISION

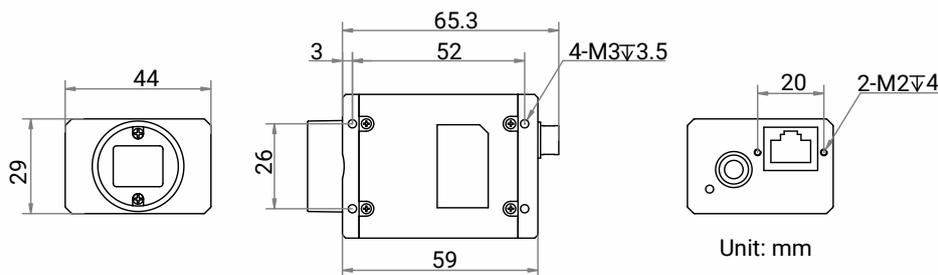
Introduction

MV-CH250-90GM/GC/GN camera adopts Gpixel GMAX0505 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 4.5 fps in full resolution.

Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Supports increasing frame rate via ROI, and supports binning, reverse image output and LSC.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports hardware trigger, software trigger, free run, etc.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Dimension



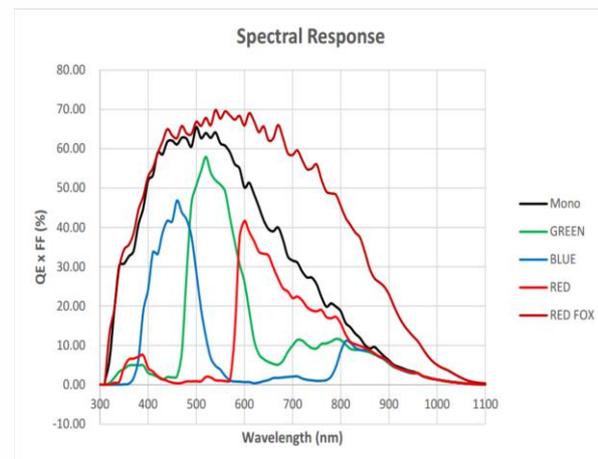
Available Model

- Mono camera: MV-CH250-90GM
- Color camera: MV-CH250-90GC
- NIR camera: MV-CH250-90GN

Applicable Industry

SMT/ PCB AOI, FPD, railway related applications, etc.

Sensor Quantum Efficiency



Specification

Model	MV-CH250-90GM	MV-CH250-90GN	MV-CH250-90GC
Performance			
Sensor type	CMOS, global shutter		
Sensor model	Gpixel GMAX0505		
Pixel size	2.5 μm \times 2.5 μm		
Sensor size	1.1"		
Resolution	5120 \times 5120		
Max. frame rate	4.5 fps @5120 \times 5120 Mono 8	4.5 fps @5120 \times 5120 Bayer BG 8	
Dynamic range	63 dB		
SNR	36 dB		
Gain	0 dB to 24 dB		
Exposure time	12 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	NIR	Color
Pixel format	Mono 8/10/10Packed/12/12Packed		Mono 8/10/12, Bayer BG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Supports 1 \times 1, 2 \times 2		
Decimation	Supports 1 \times 1, 2 \times 2, 4 \times 4		
Reverse image	Supports horizontal and vertical reverse image output		
Electrical feature			
Data interface	Gigabit Ethernet, compatible with Fast Ethernet		
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. 3.1 W@12 VDC	Typ. 3.2 W@12 VDC	
Mechanical			
Lens mount	C-mount		
Dimension	29 mm \times 44 mm \times 59 mm (1.1" \times 1.7" \times 2.3")		
Weight	Approx. 100 g (0.2 lb.)		
Ingress protection	IP40 (under proper lens installation and wiring)		
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)		
Humidity	20% to 95% 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, RoHS, KC		

HIKROBOT

Hangzhou Hikrobot Co., Ltd.
en.hikrobotics.com

© Hangzhou Hikrobot Co., Ltd. All Rights Reserved.

Hangzhou Hikrobot does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.