

MV-CH310-10GM/GC

31 MP CMOS GigE Area Scan Camera









Introduction

MV-CH310-10GM/GC camera adopts Sony[®] IMX342 sensor to • provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate • reaching 3.9 fps in full resolution.

Key Feature

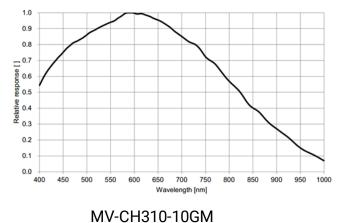
- Resolution of 6464 × 4852, pixel size of 3.45 μm × 3.45 μm.
- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Adopts GigE interface providing max. transmission distance of 100 meters without relay.
- Compact design with mounting holes on panels for flexible mounting.

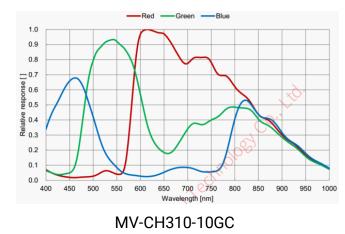
Available Model

- M58-mount with fan, mono: MV-CH310-10GM-M58S-NF
- F-mount with fan, mono: MV-CH310-10GM-F-NF
- M58-mount with fan, color: MV-CH310-10GC-M58S-NF
- F-mount with fan, color: MV-CH310-10GC-F-NF

Applicable Industry

FPD, PCB AOI, aerial photography, railway applications, document scanning, etc.





Sensor Quantum Efficiency

Specification

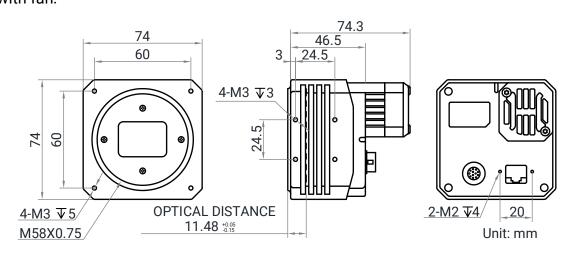
Model	MV-CH310-10GM	MV-CH310-10GC	
Performance			
Sensor type	CMOS, global shutter		
Sensor model	Sony® IMX342		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	22.3 mm × 16.7 mm		
Resolution	6464 × 4852		
Max. frame rate	3.9 fps @6464 × 4852 Mono 8	3.9 fps @6464 × 4852 Bayer RG 8	
Dynamic range	73 dB		
SNR	40 dB		
Gain	0 dB to 24 dB		
Exposure time	UltraShort exposure mode: 3 µs to 33 µs		
	Standard exposure mode: 36 µs to 2 sec	Standard exposure mode: 36 µs 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 RG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed RGB 8, BGR 8	
Binning	Supports 1 × 1, 2 × 2	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2	Supports 1×1 , 2×2 , 4×4	
Reverse image	rse image Supports horizontal and vertical reverse image output		
Electrical feature			
Data interface	Gigabit Ethernet, compatible with Fast Ethernet		
Digital I/O	12-pin P10 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), and RS-232 × 1.		
Power supply	9 VDC to 24 VDC		
Power consumption	Typ. 9 W@12 VDC		
Mechanical			
Lens mount	M58-mount: Flange focal length 11.48 mm (0.5") F-mount: Flange focal length 46.5 mm (1.8")		
Dimension	mension M58-mount with fan: 74 mm × 74 mm × 74.3 mm (2.9" × 2.9" × 2.9") F-mount with fan: 74 mm × 74 mm × 80.1 mm (2.9" × 2.9" × 3.2")		
WeightM58-mount with fan: Approx. 550 g (1.2 lb.)			
	F-mount with fan: Approx. 600 g (1.3 lb.)		
Ingress protection	IP40 (under proper lens installation and wiring)		
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)		
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °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, 64-bit Windows 11, 32/64-bit Linux, and 64-bit MacOS		
Compatibility	GigE Vision V2.0, GenlCam		
Certification	CE, RoHS, KC		



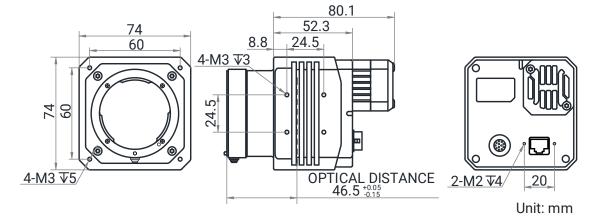
Dimension

HIKROBOT

M58-mount with fan:



F-mount with fan:



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.