MV-CS050-60UM/UC/UN V5

5 MP USB3.0 Area Scan Camera



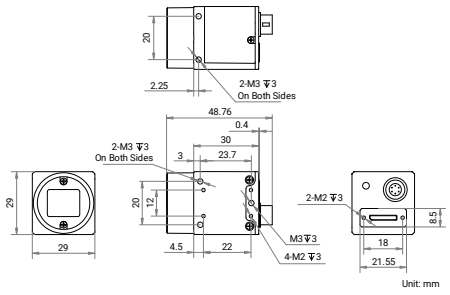
Introduction

MV-CS050-60UM/UC/UN V5 camera adopts stacked BSI sensor to provide high-quality images. It uses USB3.0 interface to transmit images in real time, and its max. frame rate can reach 60 fps in full resolution.

Key Feature

- Adopts brand new structure design and supports installation from four sides.
- Supports Super Palette and Super Bayer to provide high-quality images.
- Supports auto or manual adjustment of gain, exposure time, white balance, LUT, Gamma correction, etc., and supports Sequencer.
- Supports hardware trigger, software trigger, anyway mode, etc.
- Supports customized ROI, horizontal and vertical reverse image.
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

Dimension



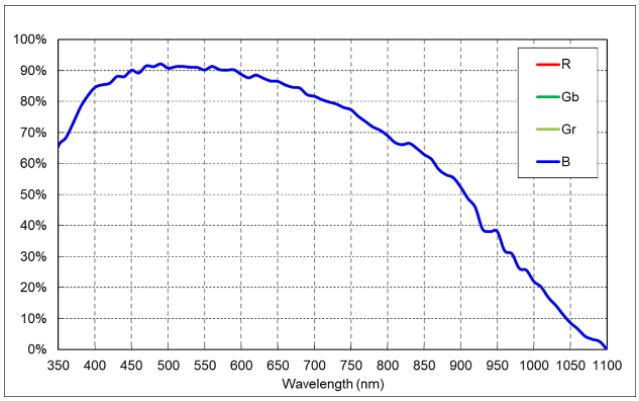
Available Model

- Mono camera: MV-CS050-60UM V5
- Color camera: MV-CS050-60UC V5
- Near-infrared camera: MV-CS050-60UN V5

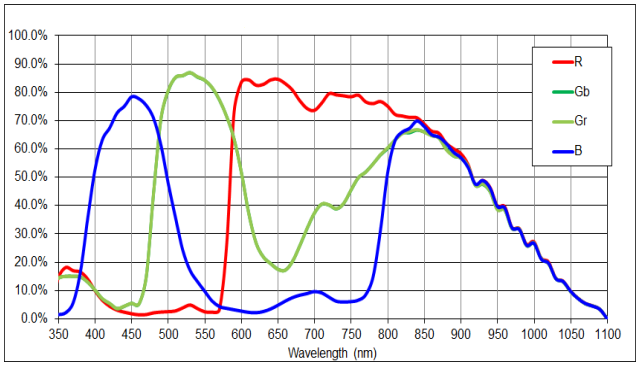
Applicable Industry

Electronics and semiconductor, factory automation, medicine package, etc.

Sensor Quantum Efficiency



MV-CS050-60UM/UN V5



MV-CS050-60UC V5

Specification

HIKROBOT

Model	MV-CS050-60UM V5	MV-CS050-60UC V5	MV-CS050-60UN V5
Performance			
Sensor type	CMOS, global shutter		
Sensor model	Stacked BSI		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	2/3"		
Resolution	2448 × 2048		
Max. frame rate	60 fps @ 2448 × 2048 Mono 8	60 fps @ 2448 × 2048 Bayer GR 8	59.1 fps @ 2448 × 2048 Mono 8
Dynamic range	73.9 dB		70 dB
SNR	42.4 dB		40.1 dB
Gain	High full well capacity: 0 dB to 12.8 dB High sensitivity: 0 dB to 24 dB		High full well capacity: 0 dB to 7.9 dB High sensitivity: 0 dB to 24 dB
Exposure time	High full well capacity: 30 μs to 10 sec High sensitivity: 5 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	Color	Near-infrared
Pixel format	Mono 8/10/10Packed/12 /12Packed	Mono 8 Bayer GR 8/10/10Packed/12 /12Packed YUV422Packed, YUV422_YUYV_Packed RGB 8, BGR 8	Mono 8/10/10Packed/12 /12Packed
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		
Electrical features			
Data interface	USB3.0, compatible with USB2.0		
Digital I/O	6-pin P7 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 USB3.0 power supply		
Power consumption	Typ. 1.5 W @ 5 VDC (USB3.0 provides power supply)		Typ. 1.6 W @ 5 VDC (USB3.0 provides power supply)
Mechanical			
Lens mount	C-mount		
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")		
Weight	Approx. 80 g (0.2 lb.)		
Ingress protection	IP40 (under proper lens installation and wiring)		
Temperature	Working temperature: –30 °C to 60 °C (–22 °F to 140 °F) Storage temperature: –30 °C to 80 °C (–22 °F to 176 °F)		
Humidity	20% RH to 95% RH (no condensation)		
General			
Client software	MVS or third-party software meeting with USB3 Vision Protocol		
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and Linux		
Compatibility	USB3 Vision, GenICam		
Certification	CE, RoHS, KC		

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