HIKROBOT

MV-CH050-60UM/UC V5

5 MP USB3.0 Area Scan Camera

MV-CH050-60UM/UC 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 79 fps in full resolution.



GENICAM USB3 VISION

Key Features

- 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.

Typical Application

- Electronics and semiconductor
- Factory automation
- Medicine package

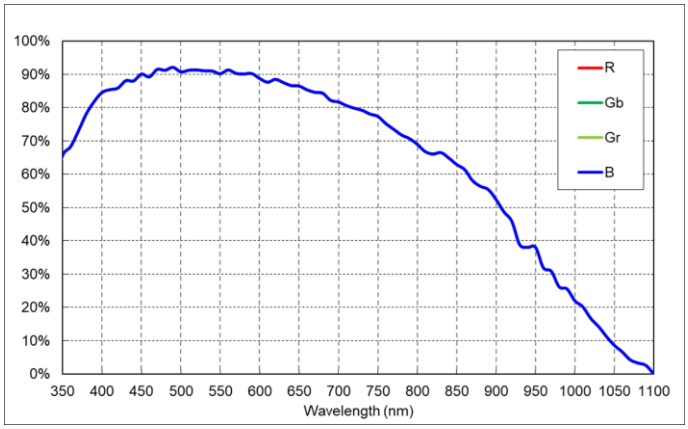
Available Model

- Mono camera: MV-CH050-60UM V5
- Color camera: MV-CH050-60UC V5

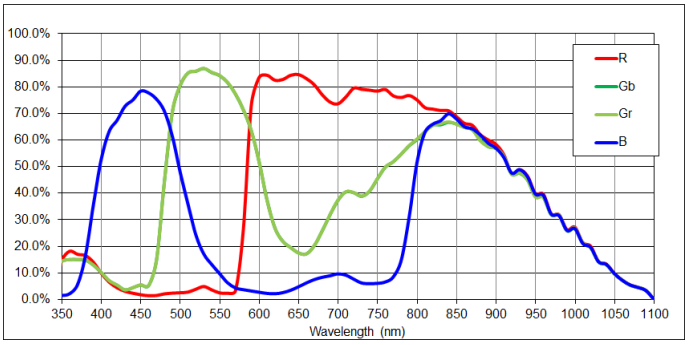
Specification

Model	MV-CH050-60UM V5	MV-CH050-60UC 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	79 fps @ 2448 × 2048 Mono 8	79 fps @ 2448 × 2048 Bayer GR 8
Dynamic range	73.9 dB	
SNR	42.4 dB	
Gain	High full well capacity: 0 dB to 12.8 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, supports TriggerWidth	
Mono/color	Mono	Color
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
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 feature		
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)	
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: –10 °C to 50 °C (14 °F to 122 °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	

Sensor Quantum Efficiency

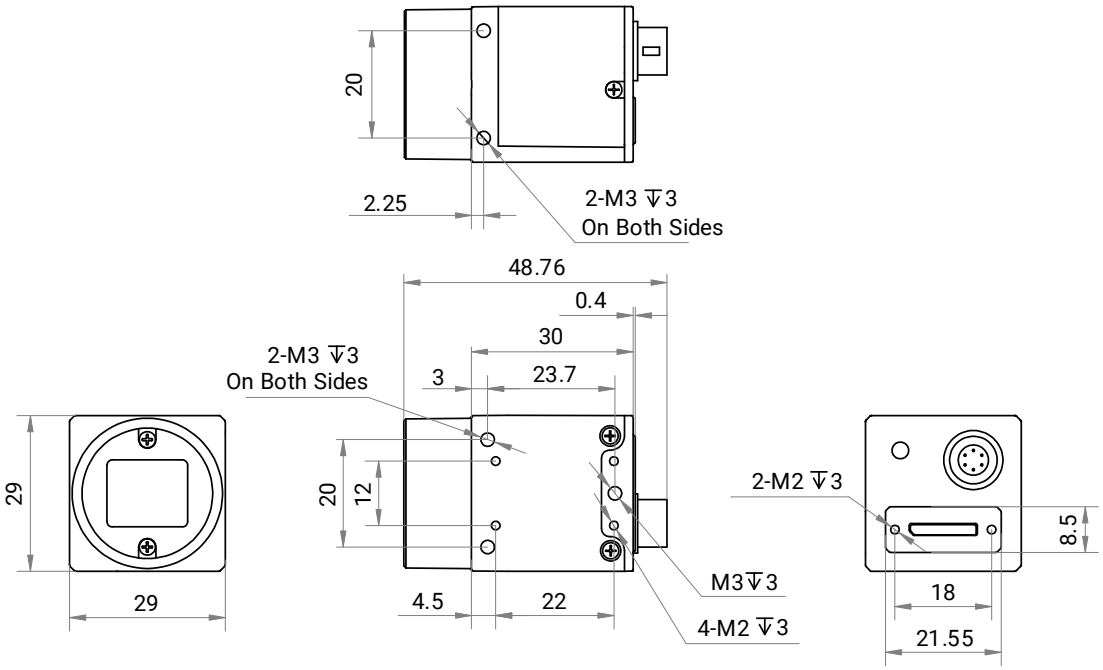


MV-CH050-60UM V5



MV-CH050-60UC V5

Dimension



Unit: mm

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