MV-CH100-60UM/UC

10MP1"CMOSUSB3.0AreaScanCamera

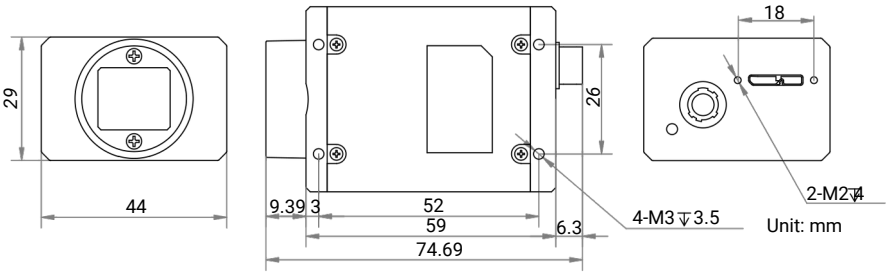
Introduction

MV-CH100-60UM/UC camera adopts CMOS global sensor to provide high-quality images. It uses USB 3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 36 fps in full resolution.

Key Feature

- Supports auto or manual adjustment of gain, exposure time, white balance, LUT, Gamma correction, etc.
- Supports customized ROI, horizontal and vertical reverse image output. Supports hardware trigger, software trigger, free run, etc. Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on these protocol and standard.

Dimension



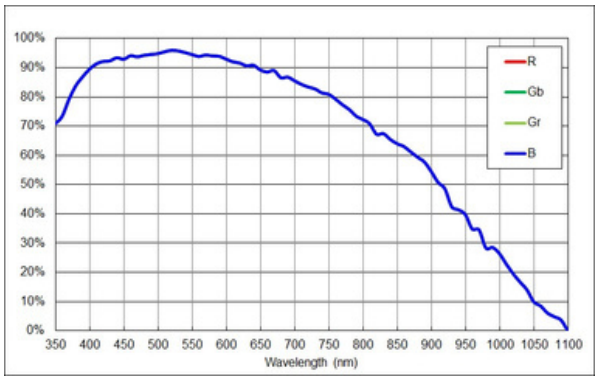
Available Model

- Mono camera: MV-CH100-60UM
- Color camera: MV-CH100-60UC

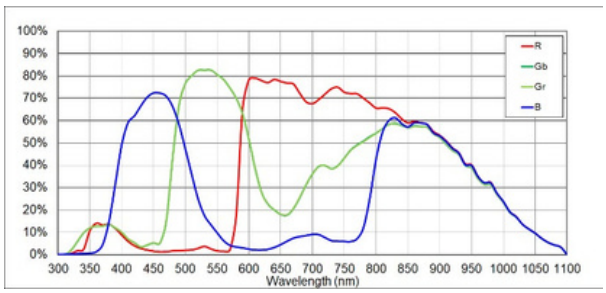
Applicable Industry

Electronic semiconductor, factory automation, liquor and beverage, medicine packing, screen AOI detection, etc.

Sensor Quantum Efficiency



MV-CH100-60UM



MV-CH100-60UC

HIKROBOT

Specification

Model	MV-CH100-60UM	MV-CH100-60UC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Stacked BSI	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1"	
Resolution Max.	4096 × 2460	
frame rate	36 fps @ 4096 × 2460 Mono 8	36 fps @ 4096 × 2460 Bayer GR 8
Dynamic range	58.2 dB	
SNR Gain	43 dB	
Exposure time	0 dB to 24 dB	
Exposure mode	80 μs to 10 sec	
Mono/color	Off/Once/Continuous exposure mode	
Pixel format	Mono	Color
	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 × 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	USB 3.0, compatible with USB 2.0	
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 USB power supply	
Power consumption	Typ. 3.6 W @ 5 VDC (USB 3.0 provides power supply)	Typ. 4.0 W @ 5 VDC (USB 3.0 provides power supply)
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 44 mm × 59 mm (1.1" × 1.7" × 2.3")	
Weight	Approx. 113 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 70 °C (−22 °F to 158 °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 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, RoHS, KC	

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