

MV-CH120-10UM/UC

12 MP 1.1" CMOS USB3.0 Area Scan Camera







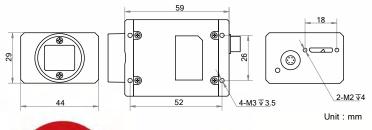
Introduction

MV-CH120-10UM/UC camera adopts Sony IMX304 sensor to Mono: MV-CH120-10UM provide high-quality image. It uses USB3.0 interface to Color: MV-CH120-10UC transmit non-compressed images in real time with max. frame rate reaching 23 fps.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, etc.
- Supports hardware triggering, software triggering and free run mode
- Adopts M2 screw holes for securing cable that connects USB3.0 interface
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on these protocol and standard

Dimension

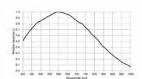


Available Model

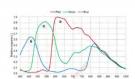
Applicable Industry

Electronic semiconductor, factory automation, bottle inspection, medical packaging, etc.

Sensor Quantum Efficiency



MV-CH120-10UM



MV-CH120-10UC



Specification

Model	MV-CH120-10UM	MV-CH120-10UC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Sony IMX304	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1.1"	
Resolution	4096 × 3000	
Max. frame rate	23 fps @4096 × 3000	
Dynamic range	72.2 dB	
SNR	40.2 dB	
Gain	0 dB to 20 dB	
Exposure time	50 μs to 10 s	
Shutter mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GB 8/10/10p/12/12p,
		YUV422Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode and SingleFrame mode	
Binning	Supports 1 x 2, 1 x 4, 2 x 1, 2 x 2, 2 x 4, 4 x 1, 4 x 2, 4 x 4	
Decimation	Supports 1 x 2, 1 x 4, 2 x 1, 2 x 2, 2 x 4, 4 x 1, 4 x 2, 4 x 4	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	USB 3.0	
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input x 1	
	(Line0), opto-isolated output x 1(Line1), bi-directional non-isolated I/O x 1 (Line2)	
Power supply	5 VDC to 15 VDC, supports USB3.0 power supply	
Power consumption	< 3.5 W@5 VDC	
Structure		
Lens mount	C-Mount	
Dimension	44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP30 (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 80% RH, without condensation	
General		
Client software	MVS or third-party software meeting with USB 3.0 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux	
Compatibility	USB 3.0 Vision, GenlCam	
Certification	CE, FCC, RoHS, KC	



MaxxVision®

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