

MV-CH120-10UM/UC

12 MP 1.1" CMOS USB3.0 Area Scan Camera







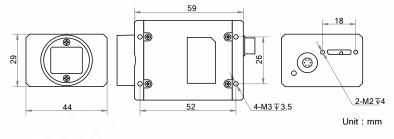
Introduction

MV-CH120-10UM/UC camera adopts Sony® IMX304 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 23.1 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, 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



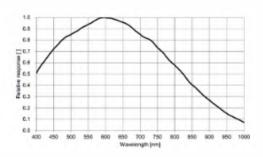
Available Model

- Mono camera: MV-CH120-10UM
- Color camera: MV-CH120-10UC

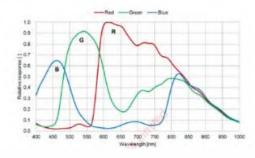
Applicable Industry

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

Sensor Quantum Efficiency



MV-CH120-10UM



MV-CH120-10UC



Specification

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 23.1 fps @4096 × 3000 Dynamic range 72.2 dB SNR 40.2 dB Exposure time UltraShort exposure mode: 1 µs to 14 µs Standard exposure mode: 15 µs to 10 sec Exposure mode Off/Once/Continuous exposure mode Mono B/10/10p/12/12p Mono 8/10/12, Bayer GB 8/10/10p/12/12p, YUV4222-PUVY_Packed, RGB 8, BGR 8 Binning Supports 1 x 1, 2 x 2, 4 x 4 Decimation Supports 1 x 1, 2 x 2, 4 x 4 Reverse image Supports horizontal and vertical reverse image output Image buffer 1 28 MB Electrical Feature USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input x 1 (Line 2), opto-isolated output x 1 (Line 1), and bi-directional non-isolated I/O x 1 (Line 2) Power supply 12 VDC, supports USB3.0 power supply Power consumption 7pp. 3.5 W@5 VDC (USB3.0 provides power supply)	Model	MV-CH120-10UM	MV-CH120-10UC	
Sensor type CMOS, global shutter Sensor mode Sony® IMX304			cc	
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Exposure 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, YUV422_Packed, YUV422_YUYV_Packed, RGB 8, BGR 8 Binning Supports 1 × 1, 2 × 2, 4 × 4 RGB 8, BGR 8 Decimation Supports horizontal and vertical reverse image output Image buffer 128 MB Electrical feature Data interface Data interface USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1(Line 1), and bi-directional non-isolated I/O × 1 (Line 2) Power supply 12 VDC, supports USB3.0 power supply Power consumption Typ. 3.5 W@5 VDC (USB3.0 provides power supply) Mechanical 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, non-condensing General				
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Compatibility USB 3.0 Vision, GenlCam	Client software	MVS or third-party software meeting v	vith USB 3.0 Vision Protocol	
	Operating system	32/64-bit Windows XP/7/10, 32/64-bi	t Linux and 64-bit MacOS	
CE, RoHS, KC		USB 3.0 Vision, GenlCam		
	Certification	CE, RoHS, KC		



Hangzhou Hikrobot Co., Ltd. en.hikrobotics.com