

MV-CB120-10UM/UC-S

12 MP 1/1.7" CMOS USB3.0 Board Level Camera



GEN*i*CAM

US3™
VISION

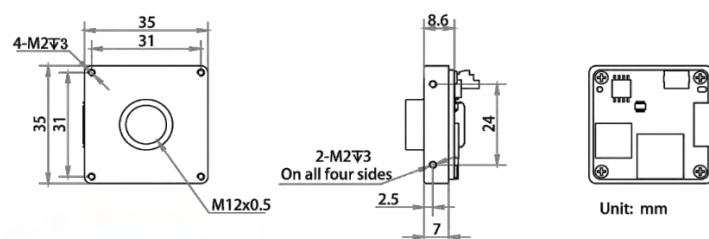
Introduction

MV-CB120-10UM/UC-S camera adopts Sony IMX226 sensor to provide high-quality image. It adopts M12-mount and is small in size, which can meet different spatial requirements.

Key Feature

- Single board design for flexible installation
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, etc.
- Adopts image interpolation algorithm for color camera to have better color correction
- Compatible with USB3 Vision Protocol, GenICam standard, and the third-party software based on these protocol and standard

Dimension



Available Model

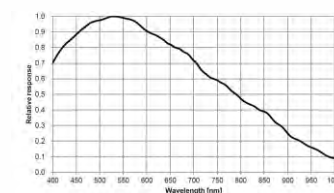
Mono camera: MV-CB120-10UM-S

Color camera: MV-CB120-10UC-S

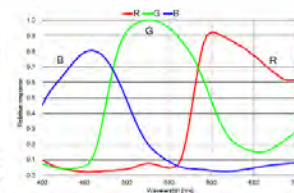
Applicable Industry

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

Sensor Quantum Efficiency



MV-CB120-10UM-S



MV-CB120-10UC-S



Specification

Model	MV-CB120-10UM-S	MV-CB120-10UC-S
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX226	
Pixel size	1.85 μm × 1.85 μm	
Sensor size	1/1.7"	
Resolution	4032 × 3036	
Max. Frame rate	28 fps @4032 × 3036	21 fps@4032 × 3036
Dynamic range	70.5 dB	
SNR	40.5 dB	
Gain	0 dB to 20 dB	
Exposure time	11 μs to 2 s	23 μs to 2 s
Shutter mode	Off/ Once /Continuous exposure mode	
Mono/Color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV 422 Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode and SingleFrame mode	
Binning	Not support	
Decimation	Supports 1 × 2, 2 × 1, 2 × 2	Not support
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
Data interface	USB3.0	
Digital I/O	Bi-directional non-isolated I/O x 2 (Line1, Line2)	
Power supply	USB3.0 power supply	
Power consumption	< 2.45 W@5 VDC	
Structure		
Lens mount	M12-Mount	
Dimension	35 mm x 35 mm x 8.6 mm (1.4" x 1.4" x 0.3")	
Weight	Approx. 30 g (0.07 lb)	
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 with USB3 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, FCC, RoHS, KC	

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

MaxxVision®

Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com