

# MV-CB120-10UM/UC-B

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



GEN*i*CAM

US3™  
VISION

## Introduction

MV-CB120-10UM/UC-B camera adopts Sony IMX226 sensor to provide high-quality image. With single board design, it 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

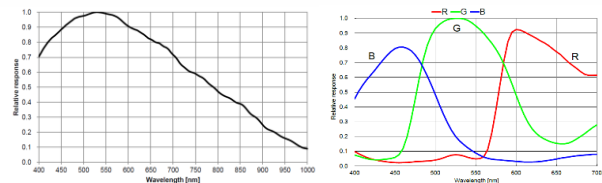
## Available Model

Mono camera: MV-CB120-10UM-B  
Color camera: MV-CB120-10UC-B

## Applicable Industry

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

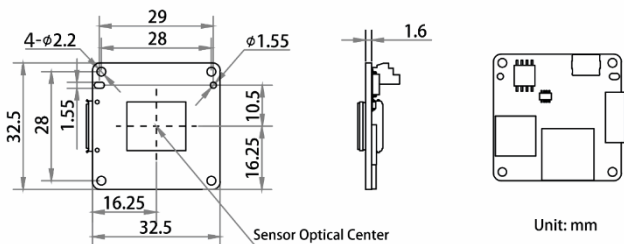
## Sensor Quantum Efficiency



MV-CB120-10UM-B

MV-CB120-10UC-B

## Dimension



## Specification

Model	MV-CB120-10UM-B	MV-CB120-10UC-B
<b>Camera</b>		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX226	
Pixel size	1.85 $\mu\text{m}$ $\times$ 1.85 $\mu\text{m}$	
Sensor size	1/1.7"	
Resolution	4032 $\times$ 3036	
Max. Frame rate	28 fps @4032 $\times$ 3036	21 fps @4032 $\times$ 3036
Dynamic range	70.5 dB	
SNR	40.5 dB	
Gain	0 dB to 20 dB	
Exposure time	11 $\mu\text{s}$ to 2 s	23 $\mu\text{s}$ 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 $\times$ 2, 2 $\times$ 1, 2 $\times$ 2	Not support
Reverse image	Supports horizontal and vertical reverse image output	
<b>Electrical features</b>		
Data interface	USB3.0	
Digital I/O	Bi-directional non-isolated I/O $\times$ 2 (Line1, Line2)	
Power supply	USB3.0 power supply	
Power consumption	< 2.45 W@5 VDC	
<b>Structure</b>		
Dimension	32.5 mm $\times$ 32.5 mm $\times$ 1.6 mm (1.3" $\times$ 1.3" $\times$ 0.1")	
Weight	Approx. 10 g (0.02 lb)	
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$ )	
Humidity	20% to 80% RH, without condensation	
<b>General</b>		
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	

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