

MV-CB060-10UM/UC-S

6 MP 1/1.8" CMOS USB3.0 Board Level Camera



GEN*i*CAM

US3™
VISION

Introduction

MV-CB060-10UM/UC-S camera adopts Sony® IMX178 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.

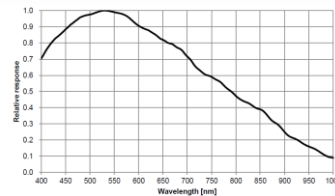
Available Model

- Mono camera: MV-CB060-10UM-S
- Color camera: MV-CB060-10UC-S

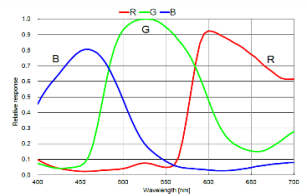
Applicable Industry

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

Sensor Quantum Efficiency

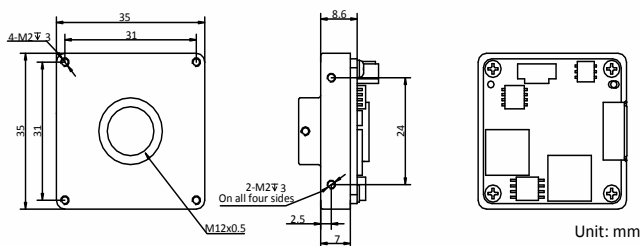


MV-CB060-10UM-S



MV-CB060-10UC-S

Dimension



Unit: mm



Specification

Model	MV-CB060-10UM-S	MV-CB060-10UC-S
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX178	
Pixel size	2.4 μm \times 2.4 μm	
Sensor size	1/1.8"	
Resolution	3072 \times 2048	
Max. frame rate	17 fps @3072 \times 2048	29 fps @3072 \times 2048
Dynamic range	71.3 dB	
SNR	41.3 dB	
Gain	0 dB to 20 dB	
Exposure time	27 μs to 2.5 s	16 μs to 2.5 s (Bayer) 24 μs to 2.5 s (other pixel formats)
Exposure mode	Supports Off/ Once/ Continuous exposure mode, and Global Reset	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV422Packed, YUV422_YUYV_Packed, RGB 8
Binning	Supports 1 \times 1, 2 \times 2	
Decimation	Not support	
Reverse image	Supports horizontal reverse image output	
Electrical features		
Data interface	USB3.0	
Digital I/O	Bi-directional non-isolated I/O \times 2 (Line 1, Line 2)	
Power supply	USB3.0 power supply	
Power consumption	Typ. 2.0 W@5 VDC	
Structure		
Lens mount	M12-Mount	
Dimension	35 mm \times 35 mm \times 8.6 mm (1.4" \times 1.4" \times 0.3")	
Weight	Approx. 30 g (0.07 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, non-condensing	
General		
Client software	MVS or third-party software meeting 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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