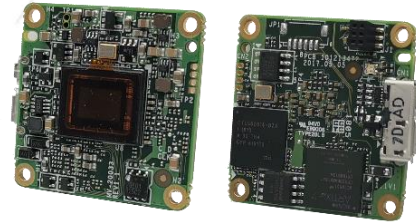# MV-CB060-10UM/UC-B
6 MP 1/1.8" CMOS USB3.0 Board Level Camera

Introduction

MV-CB060-10UM/UC-B camera adopts Sony IMX178 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
- Power supply and data transmission via USB3.0 interface
- Compatible with USB3 Vision Protocol, GenlCam standard, and the third-party software based on these protocol and standard
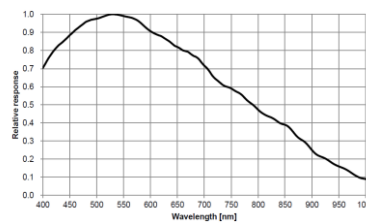
Available Model

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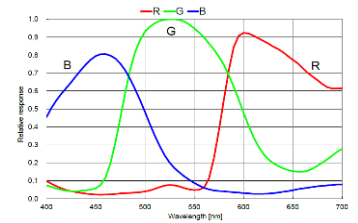- Color camera: MV-CB060-10UC-B

Applicable Industry

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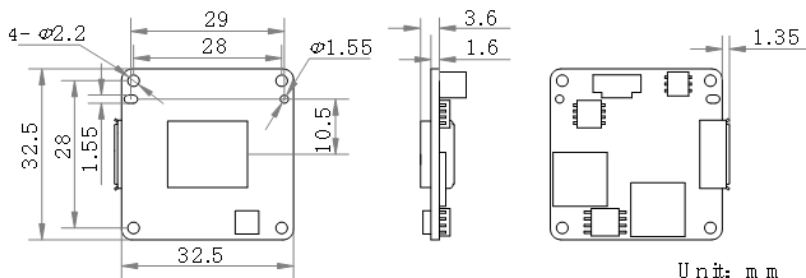
Sensor Quantum Efficiency

MV-CB060-10UM-B   MV-CB060-10UC-B

Dimension

Unit: mm

Specification

Model	MV-CB060-10UM-B	MV-CB060-10UC-B
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX178	
Pixel size	2.4 μm × 2.4 μm	
Sensor size	1/1.8"	
Resolution	3072 × 2048	
Frame rate	17 fps	29 fps
Dynamic range	71.3 dB	
SNR	41.3 dB	
Gain	0 dB to 20 dB	
Exposure time	27 μs to 2.5 s	24 μs to 2.5 s
Shutter mode	Supports 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 YUV422Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode and SingleFrame mode	
Binning	Supports 2 × 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 x 2 (Line 1, Line 2)	
Power supply	USB3.0 power supply	
Power consumption	< 1.5 W@5 VDC	
Structure		
Dimension	32.5 mm × 32.5 mm × 3.6 mm (1.3" × 1.3" × 0.1")	
Weight	Approx. 10 g (0.02 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 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	