MV-CA050-12UM/UC

5.0MP2/3"CMOSUSB3.0AreaScanCamera

Introduction

MV-CA050-12UM/UC camera adopts Sony® IMX264 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 47 fps (mono camera) or 60 fps (color camera)in full resolution.

Available Model

- Mono camera: MV-CA050-12UM
- Color camera: MV-CA050-12UC

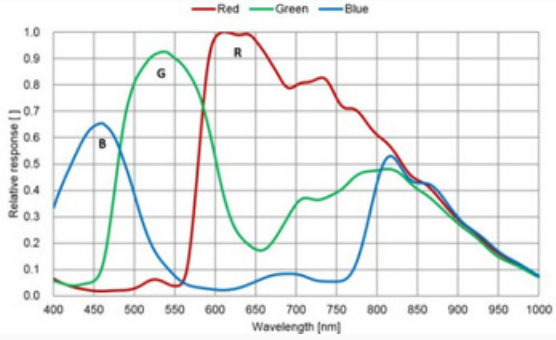
Applicable Industr

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

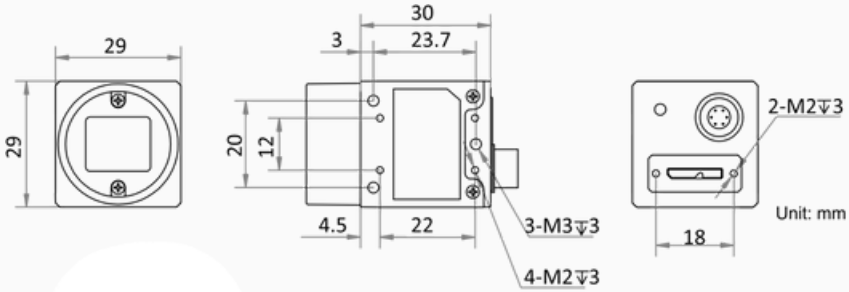
Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, etc.
- Supports hardware trigger, software trigger, free run, etc.
- Adopts M2 screw holes for securing cable that connects USB3.0 interface.
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on theseprotocol and standard.

Sensor Quantum Efficiency



Dimension



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Specification

Model *Camera*	MV-CA050-12UM	MV-CA050-12UC
Sensor type		
Sensor model	CMOS, global shutter	
Pixel size	Sony® IMX264	
Sensor size	3.45 μm × 3.45 μm	
Resolution Max.	2/3"	
frame rate	2448 × 2048	
Dynamic range	47 fps @2448 × 2048	60 fps @2448 × 2048
SNR Gain	72 dB	
Exposure time	40.2 dB	
	0 dB to 24 dB	0 dB to 20 dB
	UltraShort exposure mode: 1 μs to 14 μs	
	Standard exposure mode: 15 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical feature		
Data interface	USB3.0, compatible with USB2.0	
Digital I/O	6-pin P7 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	9 VDC to 24 VDC, supports USB3.0 power supply	
Power consumption	Typ. 2.9 W @5 VDC (USB3.0 provides power supply)	Typ. 3.3 W @5 VDC (USB3.0 provides power supply)
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")	
Weight	Approx. 80 g (0.18 lb.)	
Ingress protection	IP30 (under correct 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		
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 and 64-bit MacOS	
Compatibility	USB3 Vision, GenICam	
Certifications	CE, RoHS, KC	

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