

MV-CA023-10UM/UC

2.3 MP, 1/1.2" CMOS, USB3.0 Camera

Introduction

MV-CA023-10UM/UC adopts IMX249 CMOS sensor and provides high quality image. The USB3.0 interface provides high-speed real-time transmission of uncompressed data.



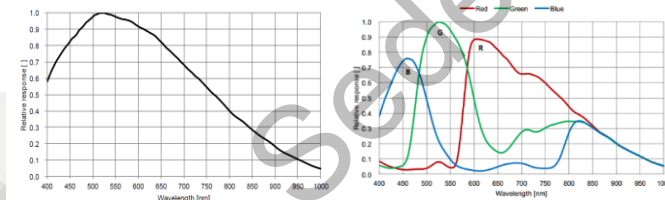
GEN*i*CAM

USB
VISION

Key Feature

- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, and etc.
- Compatible with USB3 Vision Protocol and third-party software meeting with the protocol and standard
- Supports hardware triggering and software triggering
- Power supply and data transmission via USB3.0 interface
- Compact design for flexible installation

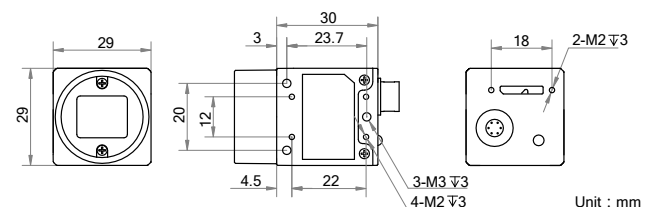
Sensor Quantum Efficiency



MV-CA023-10UC

MV-CA023-10UM

Dimension



Available Model

- Mono camera: MV-CA023-10UM
- Color camera: MV-CA023-10UC

Applicable Industry

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



Specification

Model	MV-CA023-10UM	MV-CA023-10UC
Parameters	2.3 MP 1/1.2" CMOS USB3.0 Camera	
Camera		
Sensor type	CMOS, global shutter	
Sensor model	IMX249	
Pixel size	5.86 μm \times 5.86 μm	
Sensor size	1/1.2"	
Resolution	1920 x 1200	
Frame rate	41 fps	40 fps
Dynamic range	70 dB	
SNR	40 dB	
Gain	0 dB to 20 dB	
Exposure time	34 μs to 10 s	
Shutter mode	Off/Once/Continuous exposure mode	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV 422 Packed, RGB8
Electrical features		
Data interface	USB3.0, compatible with USB2.0	
Digital I/O	Opto-isolated input x 1, Opto-isolated output x 1, Bi-directional non-isolated I/O x 1	
Power supply	5 VDC to 15 VDC, supports USB 3.0 power supply	
Power consumption	< 2.52 W@5 VDC	
Structure		
Lens mount	C-Mount	
Dimension	29 mm \times 29 mm \times 30 mm (1.14" \times 1.14" \times 1.18")	
Weight	< 56 g (0.12 lb.)	
Ingress protection	IP30 (under correct lens installation and wiring)	
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	
General		
Client software	MVS or third-party software compatible with USB3 Vision Protocol	
Operation system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	USB 3.0 Vision	
Certifications	CE, FCC, RoHS, KC	



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