HIKROBO

MV-CA020-10UM/UC

2 MP 1/1.7" CMOS USB3.0 Area Scan Camera



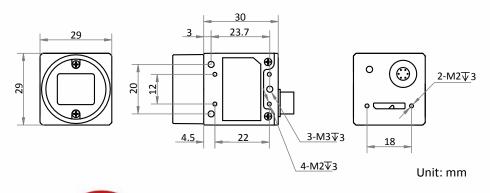
Introduction

MV-CA020-10UM/UC camera adopts Sony[®] IMX430 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time with max. frame rate reaching 89.1 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, etc.
- Supports Off, Once, Continuous exposure mode.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.

Dimension



Available Model

• Mono Camera: MV-CA020-10UM

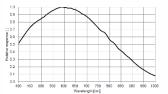
GEN**(i)**CAM

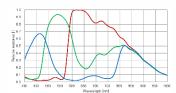
• Color Camera: MV-CA020-10UC

Applicable Industry

SMT/ PCB AOI, FPD, etc.

Sensor Quantum Efficiency





MV-CA020-10UM

MV-CA020-10UC

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Model	MV-CA020-10UM	MV-CA020-10UC
Camera	·	
Sensor type	Global shutter CMOS	
Sensor model	Sony® IMX430	
Pixel size	4.5 μm × 4.5 μm	
Sensor size	1/1.7"	
Resolution	1624 × 1240	
Max. frame rate	89.1 fps @1624 × 1240	
Dynamic range	75.4 dB	
SNR	40 dB	
Gain	0 dB to 24 dB	
Exposure time	1 µs to 10 s	
Shutter mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format		Mono 8/10/12, RGB 8, BGR 8,
	Mono 8/10/10p/12/12p	Bayer RG 8/10/10p/12/12p, YUV422Packed,
		YUV422_YUYV_Packed
Binning	Not support	
Decimation	Supports 1 x 1, 2 x 2	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	USB3.0	
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input x 1 (Line 0),	
	opto-isolated output x 1 (Line 1), bi-directional non-isolated $I/O \ge 1$ (Line 2).	
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply	
Power consumption	Approx. 3.2 W@5 VDC	Approx. 3.9 W@5 VDC
Structure		
Lens mount	C-Mount	
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")	
Weight	Approx. 80 g (0.2 lb.)	
Ingress protection	IP30 (under proper 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, 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 and 64-bit MacOS	
Compatibility	USB3 Vision, GenICam	
Certification	CE, FCC, RoHS, KC	

HIKROBOT

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