HIKROBOT

MV-CS020-10UM/UC

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



GEN**<i>**CAM

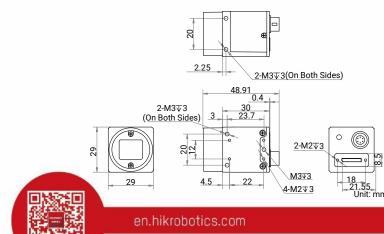
Introduction

MV-CS020-10UM/UC camera adopts Sony[®] IMX430 sensor to provide high-quality images. It uses USB3.0 interface to transmit images in real time, and its max. frame rate can reach 90 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports sequencer, passive transmission, etc.
- Color camera supports white balance, CCM, Super Palette, Super Bayer, etc.
- Supports hard trigger, software trigger, free run, etc.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.

Dimension



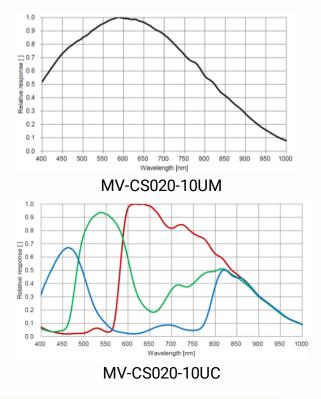
Available Model

- Mono camera: MV-CS020-10UM
- Color camera: MV-CS020-10UC

Applicable Industry

Electronics and semiconductor, factory automation, food and beverage, medicine package, etc.

Sensor Quantum Efficiency



Specification

Model	MV-CS020-10UM	MV-CS020-10UC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Sony® IMX430	
Pixel size	4.5 μm × 4.5 μm	
Sensor size	1/1.7"	
Resolution	1624 × 1240	
Max. frame rate	90 fps @1624 × 1240 Mono 8	90 fps @1624 × 1240 Bayer RG 8
Dynamic range	71.5 dB	
SNR	43.7 dB	
Gain	0 dB to 24 dB	
Exposure time	UltraShort exposure mode: 1 µs to 5 µs	
	Standard exposure mode: 6 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format		Mono 8/10/12,
	Mana 9/10/10 Decked /12/12 Decked	Bayer RG 8/10/10Packed/12/12Packed,
	Mono 8/10/10Packed/12/12Packed	YUV422Packed, YUV422_YUYV_Packed,
		RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2	
Decimation	Supports 1 × 1, 2 × 2	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
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 \times 1 (Line 1), bi-directional non-isolated I/O \times 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply	
Power consumption	Typ. 2.3 W@5 VDC	Typ. 2.4 W@5 VDC
	(USB3.0 provides power supply)	(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	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: -30 °C to 60 °C (-22 °F to 140 °F)	
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
Humidity	20% to 95% 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	
Certification	CE, RoHS, KC	MaxxVision®
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