

MV-CS020-60UM/UC V5 2 MP USB3.0 Area Scan Camera

MV-CS020-60UM/UC V5 camera adopts CMOS global sensor to provide high-quality images. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 180 fps in full resolution.



Key Features

- Adopts brand new design to reduce power consumption.
- Supports sequencer, contrast ratio, white balance, Gamma correction, etc.
- Supports hardware trigger, software trigger, and free run.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with USB3.0 Vision Protocol, GeniCam Standard, and the third-party software based on the protocol and standard.

Typical Application

- Electronics and semiconductor
- Factory automation
- Food and beverage
- Medicine package



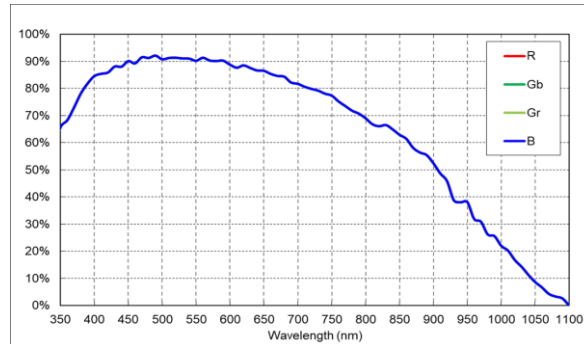
Specification

Model	MV-CS020-60UM V5		MV-CS020-60UC V5
Performance			
Sensor type	CMOS, global shutter		
Sensor model	Stacked BSI		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	1/2.53"		
Resolution	1624 × 1240		
Max. frame rate	180 fps @ 1624 × 1240 Mono 8	180 fps @ 1624 × 1240 Bayer GB 8	
Dynamic range	67.5 dB	67.8 dB	
SNR	44.1 dB	44.2 dB	
Gain	0 dB to 24 dB		
Exposure time	23 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	Color	
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8, Bayer GB 8/10/10Packed/12/12Packed, YUV422_YUYV_Packed, YUV422Packed RGB 8, BGR 8	
Binning	Supports 1 × 1, 2 × 2, 4 × 4		
Decimation	Supports 1 × 1, 2 × 2, 4 × 4		
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), bi-directional non-isolated I/O × 1 (Line 2).		
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply		
Power consumption	Typ. 1.5 W @ 5 VDC (USB3.0 provides power supply)	Typ. 1.6 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. 85 g (0.2 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 80 °C (−22 °F to 176 °F)		
Humidity	20% RH to 95% RH (no condensation)		
General			
Client software	MVS or third-party software meeting with USB3.0 Vision Protocol		
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux		
Compatibility	USB3.0 Vision, GenICam		
Certification	CE, RoHS, KC		

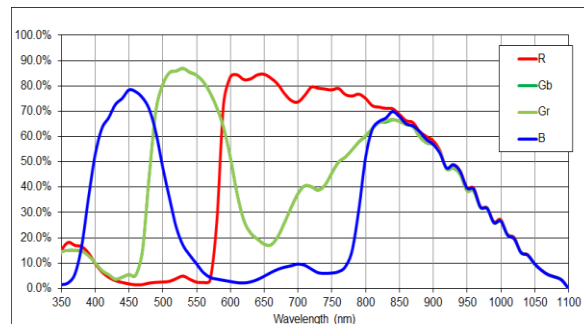
Available Model

- Mono camera: MV-CS020-60UM V5
- Color camera: MV-CS020-60UC V5

Sensor Quantum Efficiency



MV-CS020-60UM V5



MV-CS020-60UC V5

Dimension

