

MV-CS120-60UM/UC V5 12 MP USB3.0 Area Scan Camera

MV-CS120-60UM/UC V5 camera adopts Stacked BSI 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 26.8 fps.



USB
VISION

GEN<I>CAM

Key Features

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment for gain, exposure time, white balance, LUT, and Gamma correction.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

Typical Application

- Electronic semiconductor
- Factory automation
- Logistic code reading
- Liquor and beverage bottle inspection
- Pharmaceutical packaging



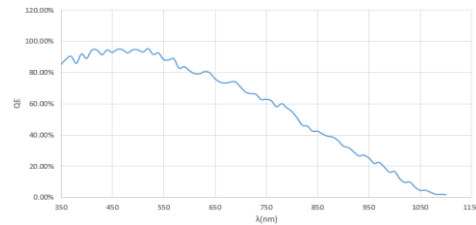
Specification

Model	MV-CS120-60UM V5	MV-CS120-60UC V5
Performance		
Sensor type	CMOS, rolling shutter	
Sensor model	Stacked BSI	
Pixel size	2.0 μm × 2.0 μm	
Sensor size	1/1.56"	
Resolution	4096 × 3024	
Max. frame rate	26.8 fps @ 4096 × 3024 Mono 8	26.8 fps @ 4096 × 3024 Bayer BG 8
SNR	68.5 dB	
Dynamic range	38.9 dB	
Gain	0 dB to 24 dB	
Exposure time	22 μs to 1.4 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8 Bayer BG 8/10/10Packed/12/12Packed YUV422Packed, YUV422_YUYV_Packed 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), and bi-directional non-isolated I/O × 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports USB 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. 80 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: −30 °C to 60 °C (32 °F to 122 °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, 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, RoHS, KC	

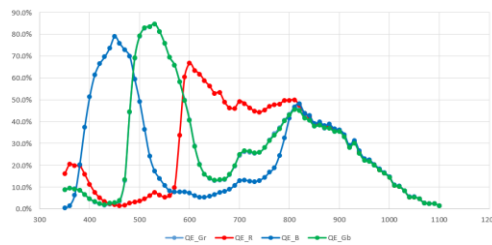
Available Model

- MV-CS120-60UM V5
- MV-CS120-60UC V5

Sensor Quantum Efficiency



MV-CS120-60UM V5



MV-CS120-60UC V5

Dimension

