

MV-CA020-10UM/UC

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









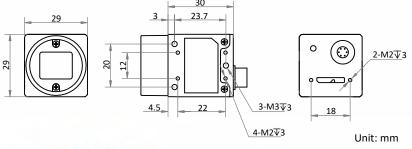
Introduction

MV-CA020-10UM/UC adopts Sony® IMX430 sensor and provides • high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 89.1 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Supports hardware triggering, software triggering and free run mode.
- Adopts M2 screw holes for securing cable that connects USB3.0 interface.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on these protocol and standard.

Dimension



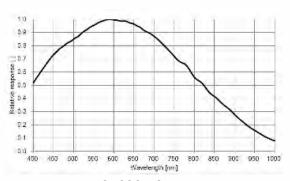
Available Model

Mono camera: MV-CA020-10UMColor camera: MV-CA020-10UC

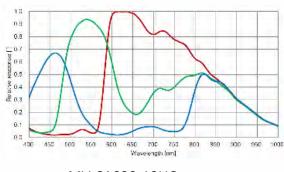
Applicable Industry

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

Sensor Quantum Efficiency



MV-CA020-10UM



MV-CA020-10UC



Specification

Censor 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 89.1 fps @1624 × 1240 Dynamic range 75.4 dB SNR 40 dB Gain 0 dB to 24 dB Exposure mode Off/Once/Continuous exposure mode Mono/color Mono Mono 8/10/12/12p Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUVV_Packed, RGB R, BGR 8 Binning Not support Decimation Supports 1 × 1, 2 × 2 Reverse image Supports 1 × 1, 2 × 2 Reverse image Supports horizontal and vertical reverse image output Electrical feature Data interface USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output x 1 (Line 1), and bi-directional non-isolated I/O × 1 (Line 2) Power supply 9 VDC to 24 VDC, supports USB3.0 power supply (USB3.0 provides power supply) Power supply 9 VDC	Model	MV-CA020-10UM	MV-CA020-10UC	
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 Exposure time 1 μs to 10 sec Exposure mode Off/Once/Continuous exposure mode Mono/color Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422 Packed, YUV422_YUYV_Packed, RGB 8, BGR 8 Binning Not support Decimation Supports 1 × 1, 2 × 2 Reverse image Supports horizontal and vertical reverse us uptut Electrical feature USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), and bi-tirectimal non-isolated I/O × 1 (Line 2) Power supply 9VDC to 24 VDC, supports USB3.0 power supply Typ. 3.9 W@5 VDC (USB3.0 provides power supply) Power consumption C-Mount Typ. 3.9 W@5 VDC (USB3.0 provides power supply) Power formal construction Power formal construction Power formal construction Power formal construction	Camera			
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 sec Exposure mode Off/Once/Continuous exposure mode Mono/color Mono Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUVV_Packed, RGB R, BGR 8 Binning Not support Decimation Supports 1 × 1, 2 × 2 Reverse image Supports horizontal and vertical reverse image output Electrical feature Supports horizontal and vertical reverse image output Data interface USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose 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 consumption Typ. 3.2 W@S VDC (USB3.0 provides power supply) Power consumption Typ. 3.2 W@S VDC (USB3.0 provides power supply) Mechanical Lens mount C-Mount	Sensor type	CMOS, global shutter		
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Gain 0 dB to 24 dB Exposure time 1 μs to 10 sec Exposure mode Off/Once/Continuous exposure mode Mono/color Mono Color Pixel format Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUVY_Packed, RGB 8, BGR 8 Binning Not support Supports 1 × 1, 2 × 2 Reverse image Supports horizontal and vertical reverse image output Electrical feature USB3.0, compatible with USB2.0 Digital I/O 6-pin Hirose 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 USB3.0 power supply Typp 3.9 W@5 VDC (USB3.0 provides power supply) Mechanical Lens mount Lens mount C-Mount Dimension 29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2"	Dynamic range	75.4 dB		
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Digital I/O 6-pin Hirose 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 USB3.0 power supply Power consumption Typ. 3.2 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 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	Electrical feature			
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Lens mountC-MountDimension29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")WeightApprox. 80 g (0.2 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% RH, without condensationGeneralMVS or third-party software meeting with USB3 Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOSCompatibilityUSB3 Vision, GenICam		(USB3.0 provides power supply)	(USB3.0 provides power supply)	
Dimension29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")WeightApprox. 80 g (0.2 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% RH, without condensationGeneralClient softwareMVS or third-party software meeting with USB3 Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOSCompatibilityUSB3 Vision, GenlCam	Mechanical			
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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	Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")		
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	Weight	Approx. 80 g (0.2 lb.)		
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	Ingress protection	IP30 (under proper lens installation and wiring)		
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	Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)		
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		Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)		
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	Humidity	20% to 80% RH, without condensation		
Operating system 32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS Compatibility USB3 Vision, GenICam	General			
Compatibility USB3 Vision, GenICam	Client software	· · ·		
	Operating system	32/64-bit Windows XP/7/10, 32/64-bit Lir	nux and 64-bit MacOS	
Certification CE, FCC, RoHS, KC	Compatibility	USB3 Vision, GenlCam		
	Certification	CE, FCC, RoHS, KC		



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