

Specification

Model	MV-CE050-30UM	MV-CE050-30UC
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Aptina AR0521	
Pixel size	2.2 μm \times 2.2 μm	
Sensor size	1/2.5"	
Resolution	2592 \times 1944	
Max. frame rate	44.7 fps @2592 \times 1944	
Dynamic range	60 dB	
SNR	40 dB	
Gain	0 dB to 15 dB	
Exposure time	28 μs to 0.6 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 GR 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV 422 Packed, RGB 8, BGR 8
Binning	Supports 1 \times 1, 2 \times 2, 4 \times 4	
Decimation	Supports 1 \times 1, 2 \times 2, 4 \times 4	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
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 \times 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	12 VDC, supports USB3.0 power supply
Power consumption	Typ. 2.5 W @5 VDC (USB3.0 provides power supply)	
Mechanical		
Lens mount	C-Mount	
Dimension	29 mm \times 29 mm \times 30 mm (1.1" \times 1.1" \times 1.2")	
Weight	Approx. 80 g (0.2 lb.)	Approx. 56 g (0.12 lb.)
Ingress protection	IP30 (under correct lens installation and wiring)	
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)	
Humidity	20% to 80% 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	
Certifications	CE, FCC, RoHS, KC	

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