

MV-CE050-30UM/UC

5.0MP1/2.5"CMOSUSB3.0AreaScanCamera



GEN*i*CAM

US3TM
VISION

Introduction

MV-CE050-30UM/UC camera adopts Aptina AR0521 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max.

frameratecanreach 44.7 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, GenICam Standard, and the third-party software based on these protocol and standard.

Available Model

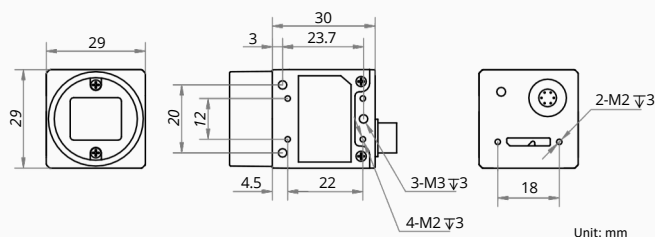
- ☐ Mono camera: MV-CE050-30UM
- ☐ Colcor camera: MV-CE050-30UC

Applicable Industry

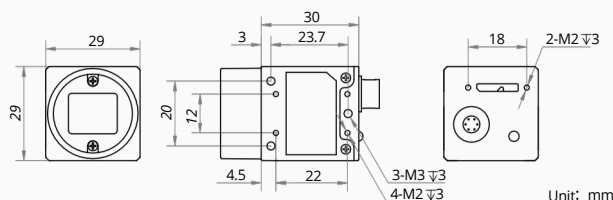
Electronic semiconductor, factory automation, liquorand beverage, medicine packing, etc.

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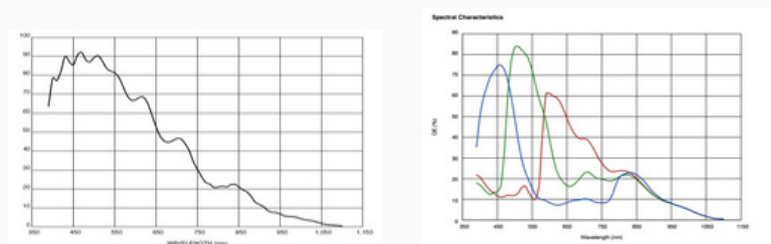
Mono camera:



Color camera:



Sensor Quantum Efficiency



MV-CE050-30UM/UC

Specification

Model	MV-CE050-30UM	MV-CE050-30UC
Camera		
Sensor type	CMOS, rolling shutter Aptina AR0521	
Sensor model	2.2 μm × 2.2 μm 1/2.5" 2592 × 1944	
Pixel size	44.7 fps @2592 × 1944 60 dB 40 dB 0	
Sensor size	dB to 15 dB 28 μs to 0.6 sec	
Resolution	Off/Once/Continuous exposure mode	
Max. frame rate	Mono	
Dynamic range		
SNR		
Gain		
Exposure time		
Exposure mode		
Mono/color		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 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 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 × 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	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 × 29 mm × 30 mm (1.1" × 1.1" × 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 °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, 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, RoHS, KC	

HIKROBOT

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