MV-CE050-30UM

5.0 MP 1/2.5" CMOS USB3.0 Area Scan Camera

GEN<i>CAM

US3 VISION

Introduction

MV-CE050-30UM camera adopts Aptina AR0521 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time with max. frame rate reaching 31 fps.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, 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
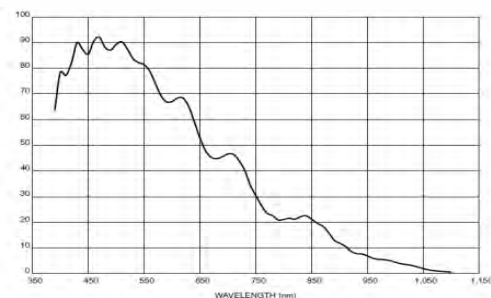
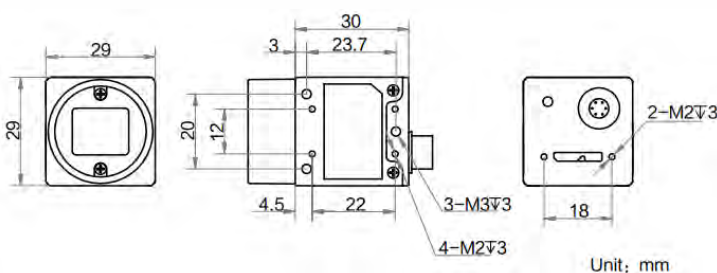## Available Model

Mono camera: MV-CE050-30UM

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

Unit: mm

Specification

Model	MV-CE050-30UM
Camera	
Sensor type	CMOS, rolling shutter
Sensor model	Aptina AR0521
Pixel size	2.2 μm × 2.2 μm
Sensor size	1/2.5"
Resolution	2592 × 1944
Max. frame rate	31 fps @2592 × 1944
Dynamic range	60 dB
SNR	40 dB
Gain	0 dB to 15 dB
Exposure time	28 μs to 1 s
Shutter mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Not support
Decimation	Supports 1 × 2, 2 × 1, 2 × 2
Reverse image	Supports horizontal and vertical reverse image output
Image buffer	128 MB
Electrical features	
Data interface	USB3.0
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input x 1 (Line0), opto-isolated output x 1(Line1), bi-directional non-isolated I/O x 1 (Line2)
Power supply	5 VDC to 15 VDC, supports USB3.0 power supply
Power consumption	< 2.5 W @5 VDC
Structure	
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 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, without condensation
General	
Client software	MVS or third-party software meeting with USB3 Vision Protocol
Operation system	32/64-bit Windows XP/7/10 and 32/64-bit Linux
Compatibility	USB3 Vision, GenlCam
Certifications	CE, FCC, RoHS, KC