MV-CU050-60UM

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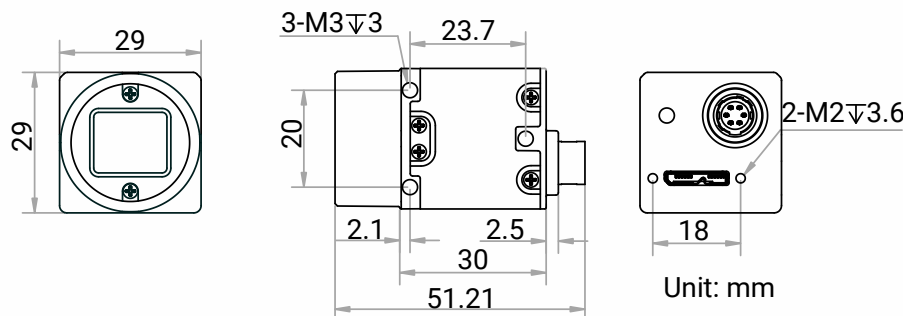

GEN<i>CAM

US3 VISION

Introduction

MV-CU050-60UM camera adopts CMOS 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 48.2 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports increasing frame rate via ROI, and supports binning, horizontal and vertical reverse image output.
- Supports hardware trigger, software trigger, and free run.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.

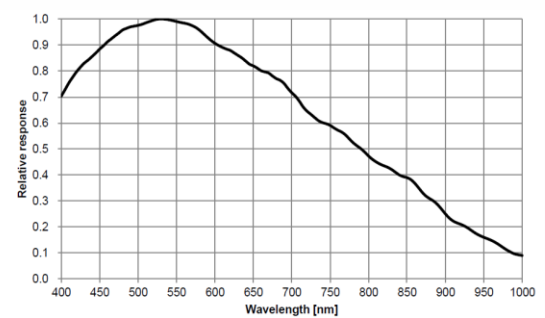## Available Model

MV-CU050-60UM

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

Unit: mm

Specification

Model	MV-CU050-60UM
Performance	
Sensor type	CMOS, rolling shutter
Sensor model	HK
Pixel size	2.2 µm × 2.2 µm
Sensor size	1/2.5"
Resolution	2592 × 1944
Max. frame rate	48.2 fps @2592 × 1944 Mono 8
Dynamic range	65.4 dB
SNR	40.7 dB
Gain	0 dB to 24 dB
Exposure time	12 µs to 1.25 sec
Exposure mode	Off/Once/Continuous exposure mode, supports Global Reset, Rolling, and Trigger Rolling.
Mono/color	Mono
Pixel format	Mono 8/10/10Packed/12/12Packed
Binning	Supports 1 × 1, 2 × 2
Decimation	Supports 1 × 1, 2 × 2, 4 × 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
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), bi-directional non-isolated I/O × 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply
Power consumption	Typ. 2.7 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. 76 g (0.2 lb.)
Ingress protection	IP40 (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, 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
Certification	CE, RoHS, KC