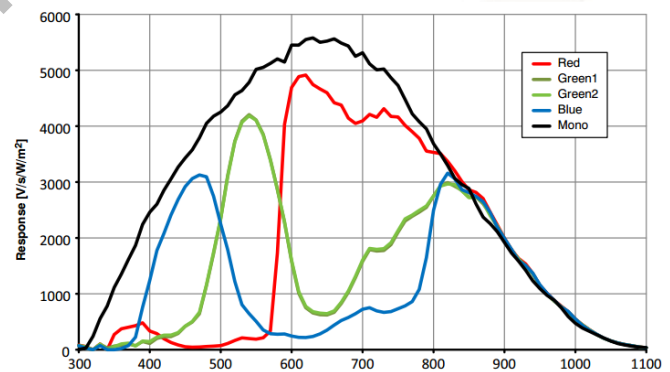# MV-CA050-20UM/UC
5MP, 1" CMOS, USB 3.0 Camera

The Hikvision MV-CA050-20UM/UC 5 MP 1" CMOS USB 3.0 Camera is a high quality device that can be used in a variety of applications, including electronic semiconductor fabrication, factory automation, logistics code reading, bottle inspection and medical packaging.

Key Features

- Supports auto exposure control, user defined LUT and gamma correction.
- Cameras can be synchronized with hard trigger and soft trigger. Different exposure modes supported.
- Compact structure with the size of 29mm×29mm×30mm, suitable for tight mounting requirement.
- The USB3.0 interface is tightly locked to prevent accidental unplugging and dropping.
- Compatible with USB 3.0 Vision V1.0.

Spectral Response

MV-CA050-20UM/UC Quantum Efficiency

Application Scenarios

- Electronic semiconductor
- Factory automation
- Logistics code reading
- Bottle inspection
- Medical packaging

Order Models
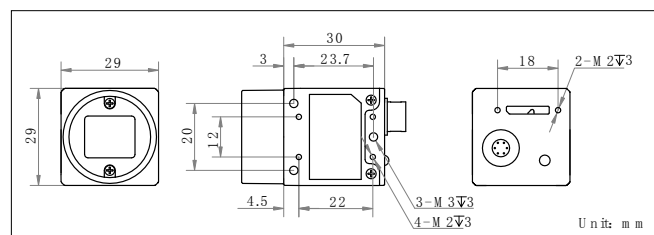
Mono: MV-CA050-20UM
Color: MV-CA050-20UC

www.hikrobotics.com

Specifications

Model Parameters	MV-CA050-20UM	MV-CA050-20UC
	5MP, 1" CMOS, USB 3.0 Camera	
Camera		
Sensor	PYTHON 5000	
Pixel Size	4.8μmx4.8μm	
Sensor Size	1"	
Resolution	2592x2048	
Frame Rate	60fps	30fps
Dynamic Range	>60dB	
SNR	>40dB	
Gain Range	0-15dB	0-10dB
Exposure Time	59μs-10sec	
Shutter Mode	Global shutter. Auto-exposure, Manual exposure, and One-key exposure	
Data Interface	USB 3.0	
General Purpose I/O	Opto-isolated input x1, Opto-isolated output x1, Bi-directional non-isolated I/O x1	
Data Format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer BG 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV422_Packed, RGB8
General		
Power	<3.5W@12VDC, Voltage 5~15VDC, USB 3.0 power supply supported	
Temperature	Working Temperature 0~50℃, Storage Temperature -30~70℃	
Humidity	20%-80% RH without condensation	
Dimension	29mm×29mm×30mm	
Weight	<56g	
Lens Interface	C-Mount	
Software	MVS or Third-Party Software supporting USB 3.0 Vision Protocol	
Operating System	Windows XP/7/10 32/64bits	
Compliance	USB 3.0 Vision	
Certification	CE, FCC, RoHS	

Recommended Accessories
- **Power:** 12VDC @1A power adapter
- **Cable:** Micro USB 3.0 cable (B Type) recommended

Dimensions

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