MV-CH120-10UM/UC
12MP, 1.1" CMOS, USB 3.0 Camera

USB3™
VISION

The Hikvision MV-CH120-10UM/UC 12 MP 1.1" 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, bottle inspection and medical packaging.
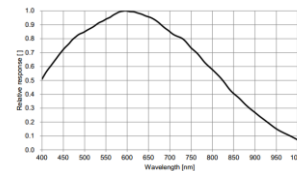
Key Features

- 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.
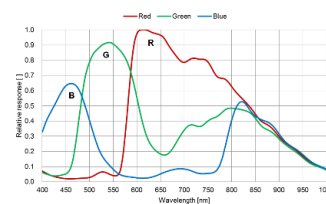- Compatible with USB 3.0 Vision V1.0.

Spectral Response

MV-CH120-10UM Quantum Efficiency

MV-CH120-10UC Quantum Efficiency

Application Scenarios

- Electronic semiconductor
- Factory automation
- Bottle inspection
- Medical packaging

Order Models

Mono: MV-CH120-10UM
Color: MV-CH120-10UC

Specifications

Model Parameters	MV-CH120-10UM	MV-CH120-10UC
	12MP, 1.1" CMOS, USB 3.0 Camera	
Camera		
Sensor	IMX304	
Pixel Size	3.45μmx3.45μm	
Sensor Size	1.1"	
Resolution	4096x3000	
Frame Rate	23fps	
Dynamic Range	>65dB	
SNR	>40dB	
Gain Range	0-20dB	
Exposure Time	50μs-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	
Image Buffer	128MB	
Data Format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 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	44mm×29mm×60mm	
Weight	< 100g	
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

Unit : mm