HIKROBOT®

MV-CH120-11UM/UC
12 MP 1.1" CMOS USB3.0 Area Scan Camera
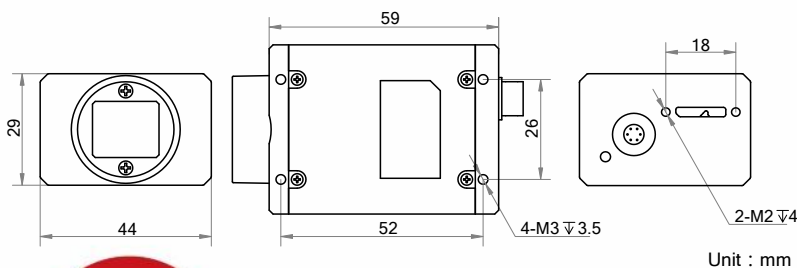
GEN<i>CAM

US3 VISION™

Introduction

MV-CH120-11UM/UC camera adopts Sony® IMX304 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 30.3 fps in full resolution.

Key Feature

- Supports auto or manual adjustment of gain, exposure time, and manual adjustment of Gamma correction, LUT, 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.

Dimension
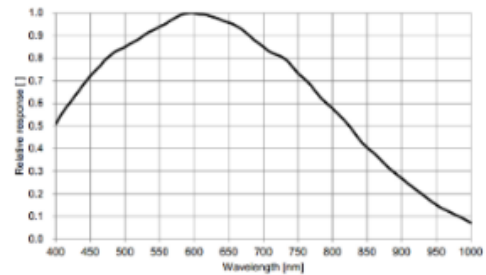

Unit : mm

en.hikrobotics.com

Available Model

- Mono camera: MV-CH120-11UM
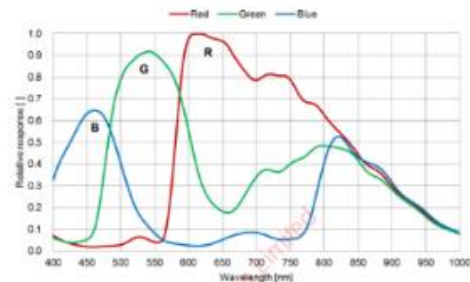- Color camera: MV-CH120-11UC

Applicable Industry

PCBA AOI, electronic semiconductor, factory automation, liquor and beverage, medicine packing, etc.

Sensor Quantum Efficiency

MV-CH120-11UM

Specification

Model	MV-CH120-11UM	MV-CH120-11UC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Sony® IMX304	
Pixel size	3.45 µm × 3.45 µm	
Sensor size	1.1"	
Resolution	4096 × 3000	
Max. frame rate	30.3 fps@4096 × 3000 Mono 8	30.3 fps@4096 × 3000 Bayer RG 8
Dynamic range	72.2 dB	
SNR	40.2 dB	
Gain	0 dB to 24 dB	
Exposure time	UltraShort exposure mode: 1 µs to 14 µs	
	Standard exposure mode: 15 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8/10/12, Bayer RG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_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	
Electrical feature		
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), and bi-directional non-isolated I/O × 1 (Line 2)	
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply	
Power consumption	Typ. 4.67 W@5 VDC (USB3.0 provides power supply)	Typ. 4.7 W@5 VDC (USB3.0 provides power supply)
Mechanical		
Lens mount	C-mount	
Dimension	44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP30 (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 USB3.0 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	USB3 Vision, GenlCam	
Certification	CE, RoHS, KC	

HIKROBOT

Hangzhou Hikrobot Co., Ltd.
en.hikrobotics.com

Aremak Bilişim Teknolojileri
Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi,
Mustafa Kemal Mahallesi, Dumlupınar Bulvarı No:280G,
İç Kapı No:1260, Çankaya, Ankara/Türkiye

W: www.aremak.com.tr
E: shop@aremak.com.tr
T: +908502551506