

MV-CH140-60UM

14MP1"CMOSUSB3.0AreaScan Camera



GEN*i*CAM

US*3*
VISION

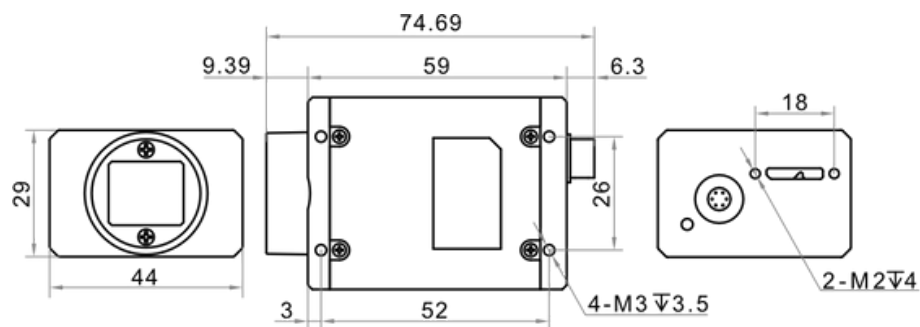
Introduction

MV-CH140-60UM camera provides high-quality images. It uses USB 3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 27 fps in full resolution.

Key Feature

- Supports auto or manual adjustment of gain, exposure time, Gamma correction, LUT correction, etc. Supports customized ROI, horizontal and vertical reverse image output. Supports hardware trigger, software trigger, free run. Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

Dimension



Unit: mm

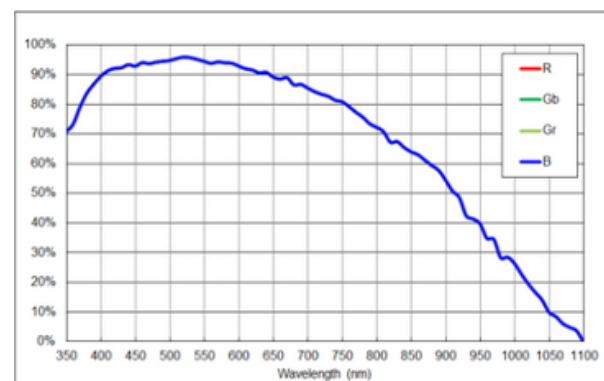
Available Model

MV-CH140-60UM

Applicable Industry

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

Sensor Quantum Efficiency



MV-CH140-60UM



Specification

Model	MV-CH140-60UM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Stacked BSI
Pixel size	3 μm $\times$ 3 μm
size Resolution	1"
Max. frame rate	4708 $\times$ 2824
Dynamic range	27 fps @ 4708 $\times$ 2824 Mono 8
SNR Gain	56.9 dB
Exposure time	41.9 dB
Exposure mode	0 dB to 24 dB
Mono/color Pixel format	80 μs to 10 sec
Binning	Off/Once/Continuous exposure mode
Decimation	Mono
Reverse image	Mono 8/10/10Packed/12/12Packed
Electrical features	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
Data interface	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
Digital I/O	Supports horizontal and vertical reverse image output
	USB 3.0, compatible with USB 2.0
	6-pin P7 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports USB 3.0 power supply
Power consumption	Typ. 4.0 W @ 5 VDC (USB 3.0 provides power supply)
Mechanical	
Lens mount	C-mount
Dimension	29 mm $\times$ 44 mm $\times$ 59 mm (1.1" $\times$ 1.7" $\times$ 2.3")
Weight	Approx. 113 g (0.2 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or third-party software meeting with USB3 Vision Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux
Compatibility	USB3 Vision, GenICam
Certification	CE, RoHS