

# MV-CH089-10UM/UC

8.9 MP 1" CMOS USB3.0 Area Scan Camera



GEN*i*CAM

US3<sup>TM</sup>  
VISION

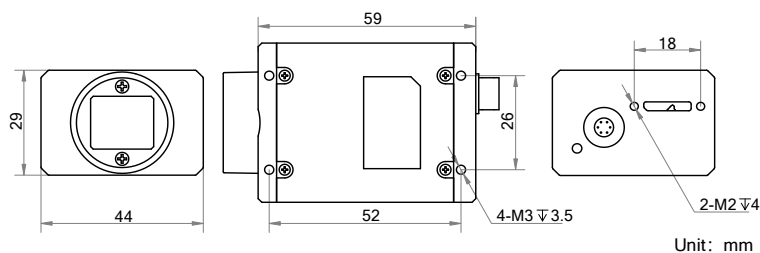
## Introduction

MV-CH089-10UM/UC camera adopts Sony® IMX267 sensor and provides high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 32 fps in full resolution.

## Key Feature

- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, 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, GenICam Standard, and the third-party software based on these protocol and standard.

## Dimension



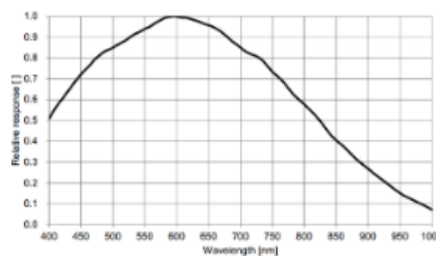
## Available Model

- Mono camera: MV-CH089-10UM
- Color camera: MV-CH089-10UC

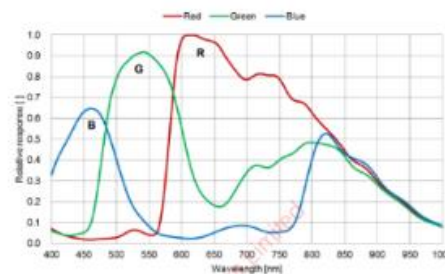
## Applicable Industry

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

## Sensor Quantum Efficiency



MV-CH089-10UM



MV-CH089-10UC

## Specification

Model	MV-CH089-10UM	MV-CH089-10UC
<b>Camera</b>		
Sensor type	CMOS, global shutter	
Sensor model	Sony® IMX267	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1"	
Resolution	4096 × 2160	
Max. frame rate	32 fps @ 4096 × 2160 Mono 8	32 fps @ 4096 × 2160 Bayer GR 8
Dynamic range	72.5 dB	
SNR	40.1 dB	
Gain	0 dB to 20 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 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, 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	
<b>Electrical feature</b>		
Data interface	USB 3.0, compatible with USB 2.0	
Digital I/O	6-pin Hirose 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	12 VDC, supports USB 3.0 power supply	
Power consumption	Typ. 3.27 W @ 5 VDC (USB 3.0 provides power supply)	
<b>Mechanical</b>		
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% RH to 80% RH (no condensation)	
<b>General</b>		
Client software	MVS or third-party software meeting with USB3.0 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, KC	