

# MV-CS040-A0UM/UC

#### 4 MP 1" CMOS USB3.0 Area Scan Camera









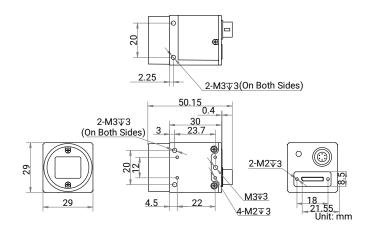
#### Introduction

MV-CS040-A0UM/UC camera adopts CMOS sensor to provide high-quality images. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 90.1 fps in full resolution.

## **Key Feature**

- Adopts global shutter CMOS sensor providing high signal-to-noise ratio, wide dynamic range and high quality images.
- Resolution of 2048 × 2048, pixel size of 5.5 μm × 5.5 μm.
- Supports hardware trigger, software trigger, free run.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.

### Dimension



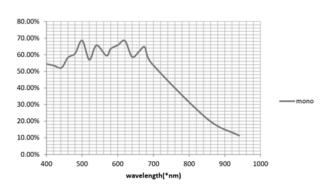
#### **Available Model**

- Mono camera: MV-CS040-A0UM
- Color camera: MV-CS040-A0UC

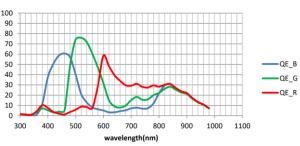
### **Applicable Industry**

Electronics and semiconductor, factory automation, medicine package, etc.

### **Sensor Quantum Efficiency**



MV-CS040-A0UM



MV-CS040-A0UC



## **Specification**

Model	MV-CS040-A0UM	MV-CS040-A0UC	
Performance			
Sensor type	CMOS, global shutter		
Pixel size	5.5 μm × 5.5 μm		
Sensor size	1"		
Resolution	2048 × 2048		
Max. frame rate	90.1 fps @2048 × 2048 Mono 8	90.1 fps @2048 × 2048 Bayer GB 8	
Dynamic range	59.7 dB		
SNR	39.6 dB		
Gain	0 dB to 12 dB		
Exposure time	30 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	Color	
Pixel format		Mono 8/10/12,	
	Mono 8/10/10Packed/12/12Packed	Bayer GB 8/10/10Packed/12/12Packed,	
	World by 10/101 deked/12/121 deked	YUV422Packed, YUV422_YUYV_Packed,	
		RGB 8, BGR 8	
Binning	Supports 1 × 1, 2 × 2	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output		
Electrical features			
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), bi-directional non-isolated I/O × 1 (Line 2).		
Power supply	9 VDC to 24 VDC, supports USB3.0 power supply		
Power consumption	Typ. 2.4 W@5 VDC (USB3.0 provides power supply)		
Mechanical			
Lens mount	C-mount		
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")		
Weight	Approx. 88 g (0.2 lb.)		
Ingress protection	IP40 (under proper lens installation and wiring)		
Temperature	Working temperature: -30 °C to 60 °C (-22 °F to 140 °F)		
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)		
Humidity	20% to 95% RH, non-condensing		
General			
Client software	MVS or third-party software meeting with USB3 Vision Protocol		
Operating system	32/64-bit Windows XP/7/10, 64-bit Windows 11, 32/64-bit Linux and 64-bit MacOS		
Compatibility	USB3 Vision, GenICam		
Certification	CE, RoHS, KC		



Hangzhou Hikrobot Co. Ltd. en.hikrobotics.com

⊕ shop.scorpion.vision 
♦ +44 (0) 1590 679333 
Ø sales@scorpion.vision