

# MV-CH140-60UM

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







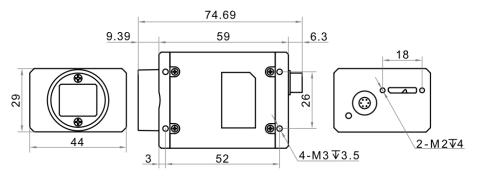
### Introduction

MV-CH140-60UM camera provides high-quality images. It uses USB3.0 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, GenlCam Standard, and the third-party software based on the protocol and standard.

#### **Dimension**



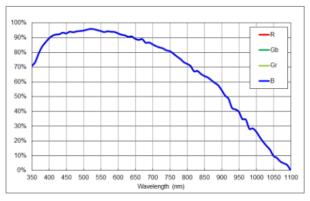
### **Available Model**

MV-CH140-60UM

## **Applicable Industry**

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

## **Sensor Quantum Efficiency**



Unit: mm



### 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



# **Specification**

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Performance	
Sensor type	CMOS, global shutter
Sensor model	Stacked BSI
Pixel size	3 μm × 3 μm
Sensor size	1"
Resolution	4708 × 2824
Max. frame rate	27 fps @4708 × 2824 Mono 8
Dynamic range	56.9 dB
SNR	41.9 dB
Gain	0 dB to 24 dB
Exposure time	80 µs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10Packed/12/12Packed
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 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. 4.0 W@5 VDC (USB3.0 provides power supply)
Mechanical	
Lens mount	C-mount
Dimension	29 mm × 44 mm × 59 mm (1.1" × 1.7" × 2.3")
Weight	Approx. 113 g (0.2 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -10 °C to 50 °C (14 °F to 122 °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



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