

MV-CM2020C-0H

HDMI Microscope Camera



Introduction

MV-CM2020C-0H microscope camera adopts 2MP CMOS sensor to provide high-quality images, and has an embedded operating system to support multi-image processing. It can be directly connected to a monitor without a computer, providing image acquisition in real time.

Available Model

MV-CM2020C-0H

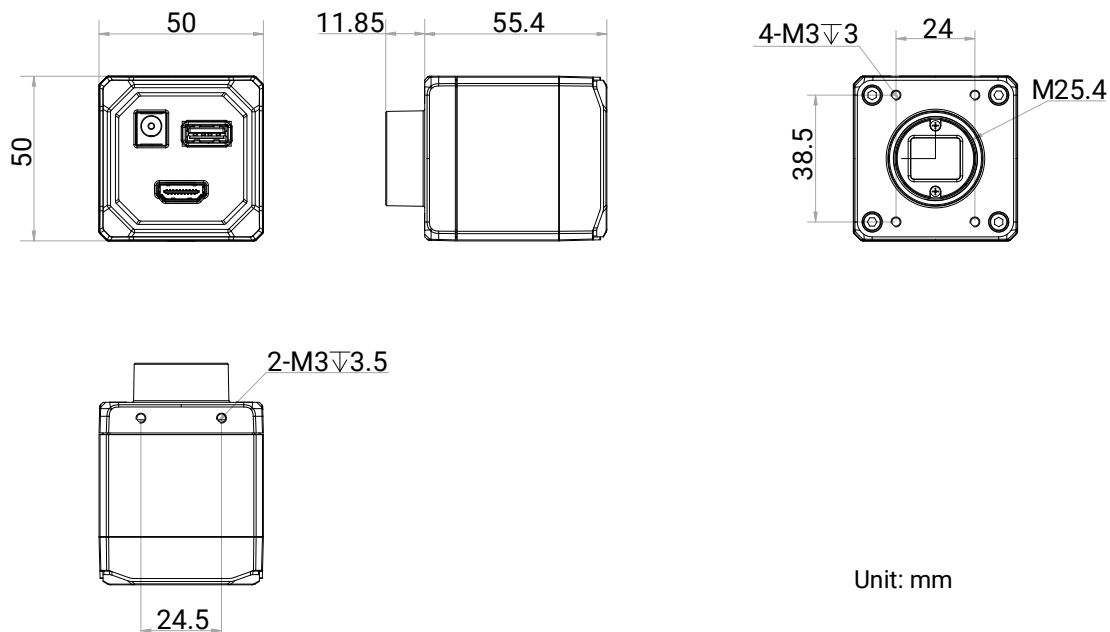
Applicable Industry

Electronic semiconductor, PCBA, biomedical industry, etc.

Dimension

Key Feature

- Supports 2 MP high-quality image and 60 fps frame rate.
- Provides HDMI interface to connect to a monitor directly.
- Provides USB 2.0 interface to connect to a mouse.
- Supports cross line on the image, and horizontal and vertical reverse image output.
- Supports image adjustment, such as manual or auto adjustment of exposure time, gain, and white balance.
- Supports manual adjustment of brightness, sharpness, 2D noise reduction, saturation, contrast, Gamma correction, and digital WDR.



Unit: mm

Specification

Model	MV-CM2020C-0H
Performance	
Sensor type	CMOS, rolling shutter
Pixel size	3.75 μm $\times$ 3.75 μm
Sensor size	1/2"
Resolution	1920 $\times$ 1080
Max. frame rate	60 fps
Gain	0 dB to 42 dB
Exposure time	300 μs to 100 ms
Mono/color	Color
Exposure mode	Auto/manual
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Transmission interface	HDMI
Console interface	USB 2.0
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 1.9 W @ 12 VDC
Mechanical	
Lens mount	C-mount
Dimension	50 mm $\times$ 50 mm $\times$ 55.4 mm (2.0" $\times$ 2.0" $\times$ 2.2")
Weight	220 g (0.5 lb.)
Ingress protection	IP30 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH, no condensation
General	
Certification	CE, RoHS