

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

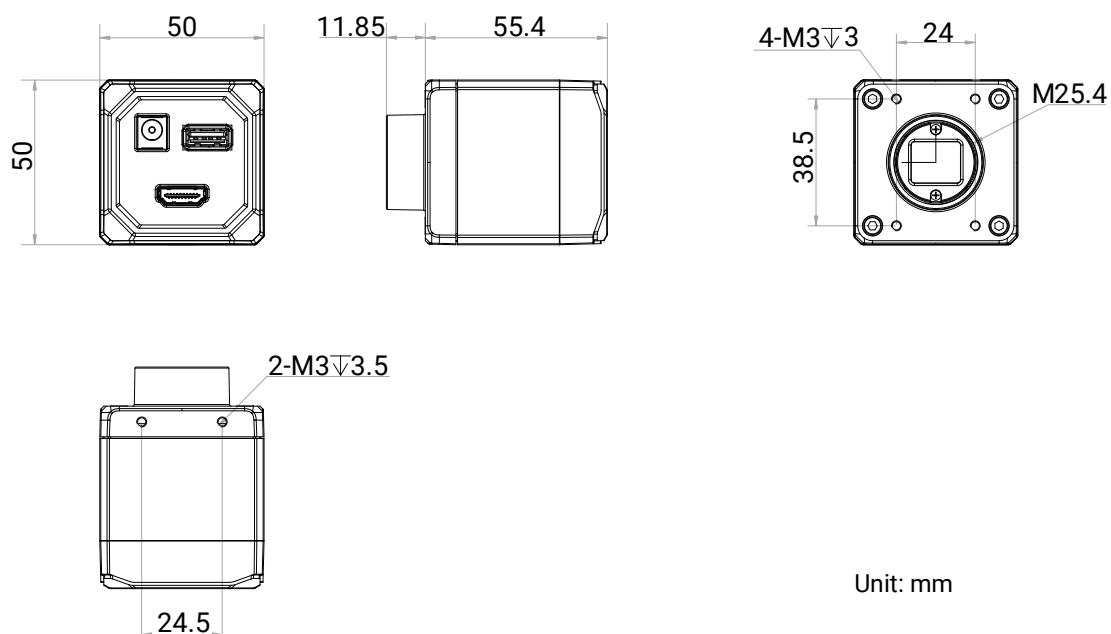
Applicable Industry

Electronic semiconductor, PCBA, biomedical industry, etc.

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 white balance, brightness, sharpness, 2D noise reduction, saturation, contrast, Gamma correction, and digital WDR.

Dimension



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, independent power supply required
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