

MV-CM3120C-1H

HDMI Measurement Microscope Camera



Introduction

MV-CM3120C-1H HDMI measurement microscope camera adopts 12 MP CMOS sensor to provide high-quality images, and has an embedded operating system to support multi-image processing and measurement. It can be directly connected to a monitor without a computer, providing image acquisition in real time.

Available Model

MV-CM3120C-1H

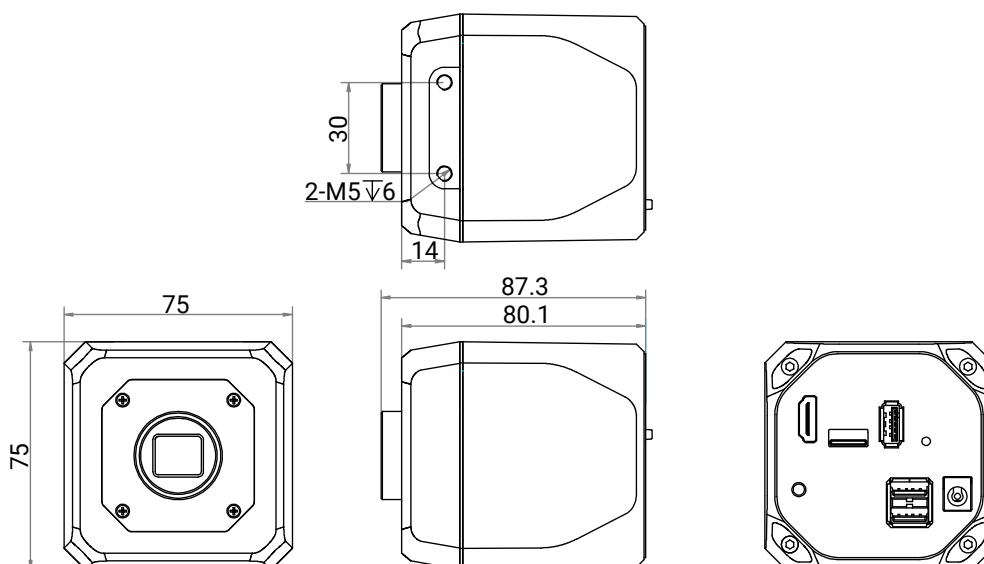
Applicable Industry

Electronic semiconductor, PCBA, biomedical industry, etc.

Key Features

- Supports 12 MP high-quality image and 30 fps frame rate.
- Provides HDMI interface to connect to a monitor directly.
- Provides USB interface to connect to a mouse or a USB flash disk.
- Provides USB 3.0 interface to connect to the PC for operation on the client software.
- Supports image storage and image-related parameter adjustment.
- Supports measurement functions and report generation.

Dimension



Unit: mm

Specification

Model	MV-CM3120C-1H
Performance	
Sensor type	CMOS, rolling shutter
Pixel size	2 μm \times 2 μm
Sensor size	1/1.56"
Resolution	4096 \times 3024
Max. frame rate	30 fps
Gain	0 dB to 18 dB
Exposure time	300 μs to 100 ms
Exposure mode	Auto/manual
Mono/color	Color
Vision tool	<ul style="list-style-type: none"> ● Image process: White balance, brightness, sharpness, contrast, saturation, digital gain, Gamma correction, digital WDR, noise reduction. ● Auxiliary functions: Image reverse, cross line, grid line, ruler, scale, image freezing, capture, recording, storage. ● Measurement: Report export, calibration, point measurement, line measurement, circle measurement, angle measurement, polygon measurement, polyline measurement, curve measurement, line/circle auto measurement.
Electrical features	
Transmission interface	HDMI
Control interface	USB 2.0 \times 2, USB 3.0 \times 1, micro SD card interface \times 1
Power supply	12 VDC to 24 VDC (requires independent power supply)
Power consumption	Typ. 4.8 W @ 12 VDC
Mechanical	
Lens mount	C-mount
Dimension	75 mm \times 75 mm \times 87.3 mm (3.0" \times 3.0" \times 3.4")
Weight	Approx. 461 g (1.0 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