

MV-CM3040C-1H

HDMI Measurement Microscope Camera



Introduction

MV-CM3040C-1H HDMI measurement microscope camera adopts 4 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.

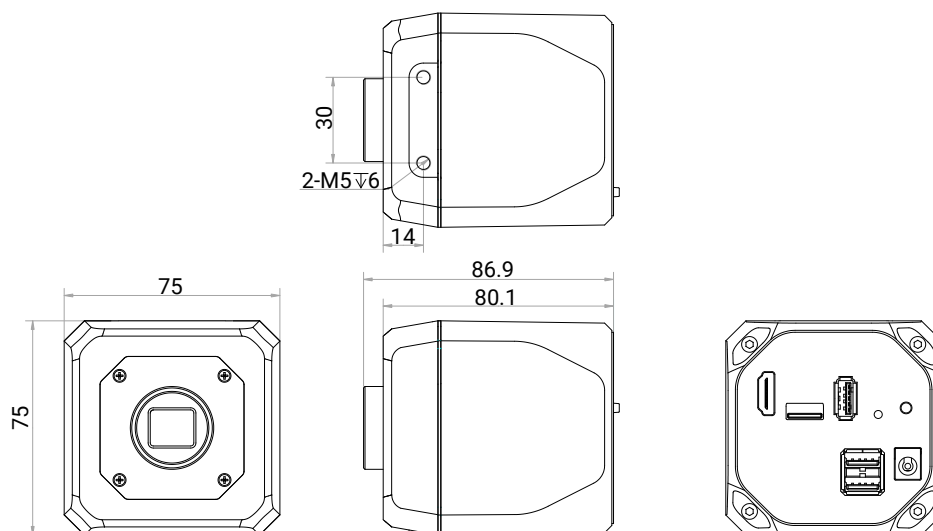
Available Model

- Device without dongle: MV-CM3040C-1H
- Device with dongle: MV-CM3040C-1H(MSD)

Applicable Industry

Electronic semiconductor, PCBA, biomedical industry, etc.

Dimension



Unit: mm

Key Feature

- Supports 4 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.

Specification

Model	MV-CM3040C-1H	MV-CM3040C-1H(MSD)
Performance		
Sensor type	CMOS, rolling shutter	
Pixel size	2.9 μm × 2.9 μm	
Sensor size	1/1.88"	
Resolution	2560 × 1440	
Max. frame rate	30 fps	
Gain	0 dB to 18 dB	
Exposure time	300 μs to 100 ms	
Mono/color	Color	
Exposure mode	Auto/manual	
Vision tool	● 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 feature		
Transmission interface	HDMI	
Console interface	USB 2.0 × 2, USB 3.0 × 1, micro SD card interface × 1	
Power supply	12 VDC to 24 VDC, independent power supply required	
Power consumption	Typ. 3.6 W @ 12 VDC	
Mechanical		
Lens mount	C-mount	
Dimension	75 mm × 75 mm × 86.9 mm (3.0" × 3.0" × 3.4")	
Weight	Approx. 430 g (0.9 lb.)	
Ingress protection	IP30 (under proper lens installation and wiring)	
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)	
Humidity	20% RH to 95% RH (no condensation)	
General		
Certification	CE, RoHS	