

MV-MZS200H-100

Zoom Stereo Microscope System



Introduction

MV-MZS200H-100 zoom stereo microscope system has an embedded operating system to support multi-image processing. It can be directly connected to a monitor without a computer, providing image acquisition and viewing in real time.

Available Model

MV-MZS200H-100

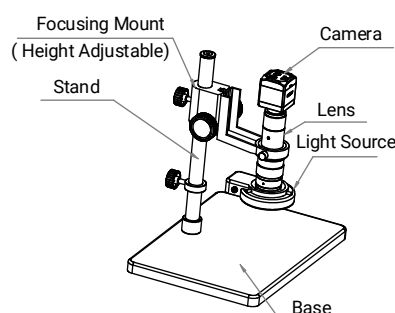
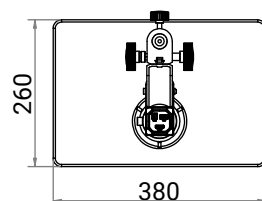
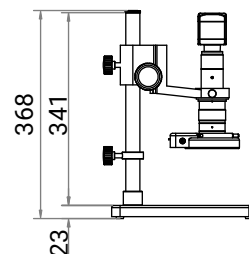
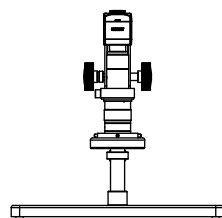
Applicable Industry

Electronic semiconductor, PCBA, biomedical industry, etc.

Dimension

Key Feature

- Provides clear image with low distortion.
- 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.
- Supports image adjustment, such as white balance, brightness, sharpness, 2D noise reduction, saturation, contrast, Gamma correction, and digital WDR.



Unit: mm

Specification

Model	MV-MZS200H-100
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
Lens	
Ocular lens	0.5 x
Objective lens	0.6 x to 4.5 x
Optical magnification	0.3 x to 2.25 x
Digital magnification	20 x to 153 x (with a 21.5" monitor)
Field of view (range)	3.2 mm $\times$ 1.8 mm to 24 mm $\times$ 13.5 mm
Working distance	100 mm
Light source	
Color	White
Wavelength	450 nm
Brightness level	0% to 100%
Bore dimension	Φ 61 mm
Electrical feature	
Transmission interface	HDMI
Console interface	USB 2.0
Power supply	12 VDC to 1 A
Power consumption	Camera: Typ. 1.9 W @ 12 VDC
Power	Light source: 3.5 W
Mechanical	
Focusing mount	Lifting height: 62 mm
Dimension	Camera: 50 mm $\times$ 50 mm $\times$ 55.4 mm (2.0" $\times$ 2.0" $\times$ 2.2") Lens: Φ 58 mm $\times$ 166.3 mm (2.3" $\times$ 6.5") Light source: Φ 97 mm $\times$ 123.5 mm (3.8" $\times$ 4.9") Base: 380 mm $\times$ 260 mm $\times$ 23 mm (15.0" $\times$ 10.2" $\times$ 0.9") Stand: Φ 25 mm $\times$ 341 mm (1.0" $\times$ 13.4")
Weight	Approx. 3000 g (6.6 lb.)
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