

JBM-UM08i HDMI DIGITAL MICROSCOPE CAMERA



Electric Controlled Continuous Zoom and Autofocus Digital Microscope - JBM-UM08i.

It is integrated with HDMI/USB camera, Electric Controlled Continuous Zoom Auto-focus Objective and LED Integrated Illumination Light. JBM-UM08i is the abbreviation of Auto-focus Digital Microscope with unparalleled clarity and speed with 8M pixels at 60Fps.

- 5 groups 16 elements with 0.0218~0.392X, 18X zoom ratio, supports auto and manual focus.
- 250mm standard working distance with 205~255mm depth of field.
- At standard working distance, the large field of view 255mm*145mm at 1X, 14.2mm*8mm 18X.
- Sony 8M pixel 4K Starvis CMOS with high signal-to-noise ratio.
- 4K HDMI/USB multiple video outputs.
- 4K/1080P auto switching according to monitor resolution.
- SD card/USB flash drive for captured image and video storage.
- Built-in mouse control software JBMSView.
- Embedded mouse Camera & AF Control Panels, Measurement & Synthesis Control Toolbars.
- Multi-language support.
- Head suction LED ring light, Optical zoom with mouse.

JBM-UM08i can be assembled with various brackets or arms and offer a continuous zooming ratio with different lens. On screen also supports autofocus mode and manual focus mode.

JBM-UM08i comes with a high-performance SONY CMOS sensor. It also has an embedded ARM core, allowing the camera to be connected directly to the HDMI monitor. The camera has JBMSView software built within it, including Camera Control Panel, Auto Focus Control Panel, Measurement Toolbar, and Synthesis Camera Control Toolbar. Users can directly control the camera and perform various operations through a USB mouse. The images and videos captured by mouse can be saved on an SD card for on-site analysis and follow-up research. JBM-UM08i can be widely used in industrial inspection, medical observation, scientific research, automation system, and other fields.

JBM-UM08i supports HDMI/USB control and video output. The frame rate of the output is 4K/60FPS, and the zoom range is 1X~18X. It also supports electric zoom and auto focusing.

Interface and Button Function

USB Mouse	USB mouse for JBMSView control
USB2.0	Connect USB flash drive to save pictures and videos
HDMI	Comply with HDMI1.4 standard. 4K/1080P format video output and supporting automatic switch between 4K and 1080P format according to the connected monitors & Screen
USB Video	Connect PC or other host device to realize video image transmission
ON/OFF	Power on/off switch
LED	Power LED indicator
SD	Comply with SDIO3.0 standard and SD card could be inserted for video and images saving
DC12V3A	DC12V3A power input

JBMSView Software Functions

UI Operation	With USB mouse to operate on the embedded JBMSView
Image Capture	8MP (3840*2160) JPEG/TIFF image in SD card or USB flash drive
Video Record	Video format : 8M(3840*2160) H264/H265 encoded MP4 file Video saving frame rate: 60fps
Camera Control Panel	Including Exposure, Gain, White Balance, Sharpness, Denoise, Denoise, Saturation, Gamma, Contrast, Brightness, Power Frequency control
Measurement Toolbar	Including Calibration, Measurement, and measurement parameter Export functions
Synthesis Control Toolbar	Including software Zoom, Flip, Freeze, Crosshair, LED Control, Auto-focus, Comparison, Browser, Setting, Version Check function
Auto Focus Control Panel	Including Zoom, Auto Focus, One Push, Manual Focus, Reset, and other functions

Software

White Balance	Auto White Balance
Color Technique	Ultra-Fine Color Engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform
Recording System	Photo & video
Operating System	Microsoft® Windows®
PC Requirements	➤ CPU: Equal to Intel Core2 2.8GHz or Higher ➤ Memory: 4GB or More ➤ Display: 19" or Larger ➤ CD-ROM

Potential Application

- Scientific research, education (teaching, demonstration and academic exchanges);
- Digital laboratory, medical research;
- Industrial visual (PCB examination, IC quality control);
- Medical treatment (pathological observation);
- Food (microbial colony observation and counting);
- Aerospace, military (high sophisticated weapons);

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