

MS-B106L

Biological Video Microscope



Contact us

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Features and Applications

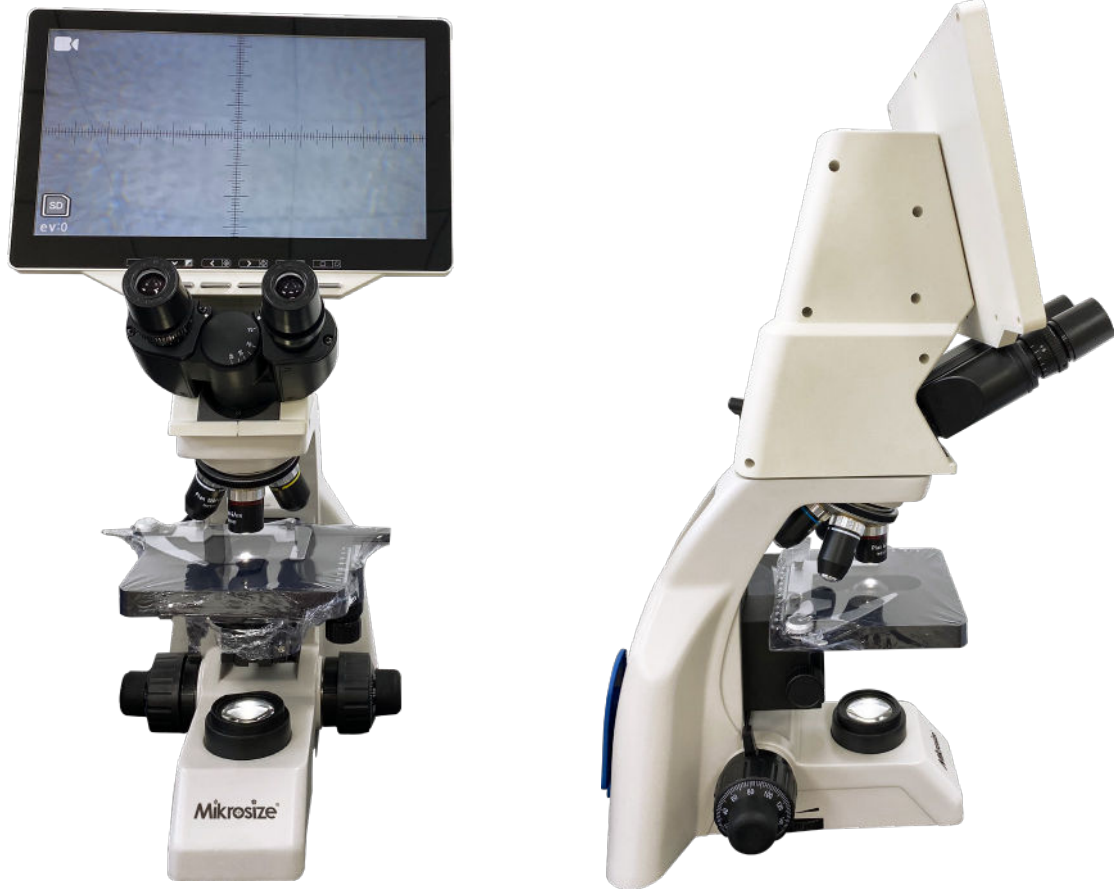
This MS-B106L biological video microscope integrates optical technology, photoelectric conversion technology and liquid crystal display technology. It is equipped with a 10.6-inch IPS screen with a resolution of 1366*768, offering a magnification range of 40×-1600×. It supports 120-megapixel photography and 1080p/60fps video recording, with SD card storage, USB/HDMI output and wireless transmission functions. It features automatic exposure and coaxial coarse and fine focusing for easy operation.

Product Features

- High technical integration: Integrating optical microscope technology, photoelectric conversion technology and liquid crystal display technology to realize high-definition display, photography, video recording, storage and other functions.
- Superior optical performance: Equipped with a variety of objective lenses and a magnification range of 40×-1600×, adopting finite/infinite optical system and Abbe condenser for clear imaging.
- Powerful digital functions: 120-megapixel photography, 1080p/60fps video recording, supporting SD card storage, USB2.0/HDMI data output and wireless transmission.
- Convenient operation: Coaxial coarse and fine focusing with a fine focusing precision of 0.002mm per grid; 30° inclined binocular observation tube with an interpupillary distance adjustment range of 47-78mm.
- Rich and practical functions: With automatic exposure, white balance, date display and other functions, it can be connected to external projectors, computers and other devices to meet the needs of various scenarios.



Features and Applications



Product Applications

- Research in zoology, botany and other disciplines, supporting microscopic observation and analysis in multiple fields.
- Inspection of raw materials and cotton and wool fabrics in the textile industry to ensure product quality.
- Transistor spot welding, inspection and other operations in the electronic industry to facilitate precision work.
- Inspection of surface cracks, air holes and other phenomena of materials to monitor material status.
- Manufacturing, assembly and quality inspection of small precision parts to ensure accuracy.
- Quality inspection of the surface quality of lenses, prisms or other transparent substances, as well as precision scales.
- Widely used in chemical engineering, electronic manufacturing, medicine and food, colleges and universities, archaeological research and many other fields.

Instrument Appearance



1.Liquid Crystal Screen

2.Binocular Tube

3.Eyepiece

4.Revolving nosepiece

5.Objective Lens

6.Light source adjustment knob

7.Condenser

8.Stage

9.Collector Lens

10.Coaxial Coarse And Fine Focusing knob

11.X/Y Axis Moving Handle

Product Details

Button Function



- ①: In browsing mode: Scale color + key; In menu and playback mode: Up key.
- ②: In browsing mode: Scale color - key; In menu and playback mode: Down key.
- ③: In browsing mode: Scale mode + key; In menu and playback mode: Left key.
- ④: In browsing mode: Scale mode - key; In menu and playback mode: Right key.
- ⑤: In browsing mode: Short press as mode switch key (video recording mode, photography mode, playback mode).
- ⑥: In browsing mode: Photography and video recording key; In menu and playback mode: OK confirmation key, long press as power off key.

Functional Structure



- WF10×/18 Eyepiece: The 10× magnification balances the field of view width and detail clarity, suitable for preliminary sample positioning and routine observation. Combined with objective lenses, it can achieve a total magnification of 40×-1000×. The 18mm large field of view can present a more complete sample area, suitable for observing large-scale samples or conducting global layout analysis of samples.
- Achromatic objective lens: Corrects the chromatic aberration of red and blue light through optical design, reduces color halos at the image edge, and presents sample details more realistically, suitable for routine observation needs. Compared with apochromatic objective lenses, it has lower cost and outstanding cost performance.

Technical Specification

Model	MS-B106L-A	MS-B106LX-A	MS-B106L-B	MS-B106LX-B
Size	10.6-Inch IPS			
Resolution	1366*768			
Optical System	Finite Optical System		Infinite Optical System	
Finite Achromatic Objective Lens	4X N.A=0.1 WD=18 10X N.A=0.25 WD=7 40X N.A=0.65 WD=0.53 100X N.A=1.25 WD=0.13		/	
Infinite Semi-Plan Objective Lens	/		4X N.A=0.1 WD=16.8 10X N.A=0.25 WD=5.8 40X N.A=0.65 WD=0.43 100X N.A=1.25 WD=0.13	
Observation Tube	Hinged binocular observation tube, 30° inclined, interpupillary distance 47-78mm			
Eyepiece	WF10×/18		WF10×/20	
Focusing System	Coaxial coarse and fine focusing, fine focusing 0.002mm per grid, lifting range 25mm			
Revolving Nosepiece	Inward four-hole revolving nosepiece			

Technical Specification

Stage	Double-layer movable stage, 140×140mm, moving range 75×50mm	Double-layer movable stage, 150×139mm, moving range 75×52mm		
Condenser	Abbe condenser NA1.25			
Illumination System	S-LED illumination			
Photosensitive Resolution	4592*3072			
Photography Pixel	1200w			
Video Resolution/Frame Rate	1080p/60fps			
Microscope Magnification	40X~1600X			
Storage Method	SD card			
Data Output Format	/	USB2.0/HDMI /	USB2.0/HDMI	
Functions	Automatic exposure, exposure offset, automatic white balance, date display support, local storage of photos and videos (maximum memory 32G)			
External Devices Available	/	Projector, display,- computer	/	Projector, display,- computer
Power Supply	DC12V			

Standard Delivery

Name	Qty	Photo
Host Head	1 pc	/
Host Frame	1 pc	/
Double-Layer Movable Stage	1 pc	/
Condenser Bracket	1 pc	/
Hinged Binocular Tube	1 pc	/
Bright Field Condenser With Adjustable Aperture	1 pc	/
Four-Hole Revolving Nosepiece	1 pc	/

Standard Delivery

Name	Qty	Photo
1W SLED	1 pc	/
Spare 50T250V 500mA Fuse	2 pcs	/
10X Eyepiece	2 pcs	/
Achromatic Objective Lens 4X	1 pc	/
Achromatic Objective Lens10X	1 pc	/
Achromatic Objective Lens 40X	1 pc	/
Achromatic Objective Lens 100X (Oil, Spring)	1 pc	/

Optional Delivery

Model	MS-B106L-A	MS-B106LX-A	MS-B106L-B	MS-B106LX-B
Wireless Transmission	Supported			
Measurement Function	/	Supported	/	Supported
Dark Field Condenser	Dry oil			
Polarizing Accessories	Optional			
Phase Contrast Accessories	Optional			
SD Card	SD card, wireless SD card			
Startup Screen	Optional			
Measurement Software	/	Supported	/	Supported