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- › [HDMI Digital Microscope 1300X, 16MP Coin Microscope with 10 Inch Stand for Entire Coin View, 7" IPS Screen Digital Microscope for PCB Soldering, 32GB TF Card Included, MDM201 Pro](#)

MOYSUWE MDM201 Pro

MOYSUWE MDM201 Pro HDMI Digital Microscope User Manual

Model: MDM201 Pro | Brand: MOYSUWE

INTRODUCTION

The MOYSUWE MDM201 Pro HDMI Digital Microscope is an advanced inspection tool designed for a wide range of applications, from intricate PCB soldering and watch repair to detailed observation of coins, plants, and insects. Featuring a stunning 7-inch IPS HD screen, a superior 16MP CMOS IMX sensor, and versatile connectivity options, this microscope provides a clear and immersive microscopic experience.



Figure 1: MOYSUWE MDM201 Pro HDMI Digital Microscope with its main components.

Key Features:

- **Stunning Visual Experience:** New upgraded 7-inch IPS HD screen with 1024*600 resolution for crystal clear and vivid pictures with expansive 180° viewing angles.
- **Superior 16MP CMOS IMX Sensor:** Ensures true-to-life images with accurate texture and detail reproduction, ideal for various inspection tasks.
- **Upgraded 10-inch Bracket:** Allows for a wider and higher field of view, easily accommodating entire coins like silver dollars.
- **Smart Touch Control Brightness Adjustment:** Equipped with 6 LED lights around the lens and 2 adjustable gooseneck lights, with independent touch control for optimal illumination.

- **Excellent 3X-1300X Zoom:** Provides detailed magnification for soldering, coins, plants, insects, and more.
- **HDMI & USB Output:** Connects directly to TV or computer screens for larger, clear real-time viewing without extra software.
- **Easy to Setup & Use:** User-friendly interface and intuitive controls make it accessible for all ages.
- **More than a Microscope:** Capable of recording 1920*1080 30fps & 1280*720 60fps videos and capturing up to 16MP (5376*3024) photos, saved on the included 32GB SD card.

WHAT'S IN THE BOX

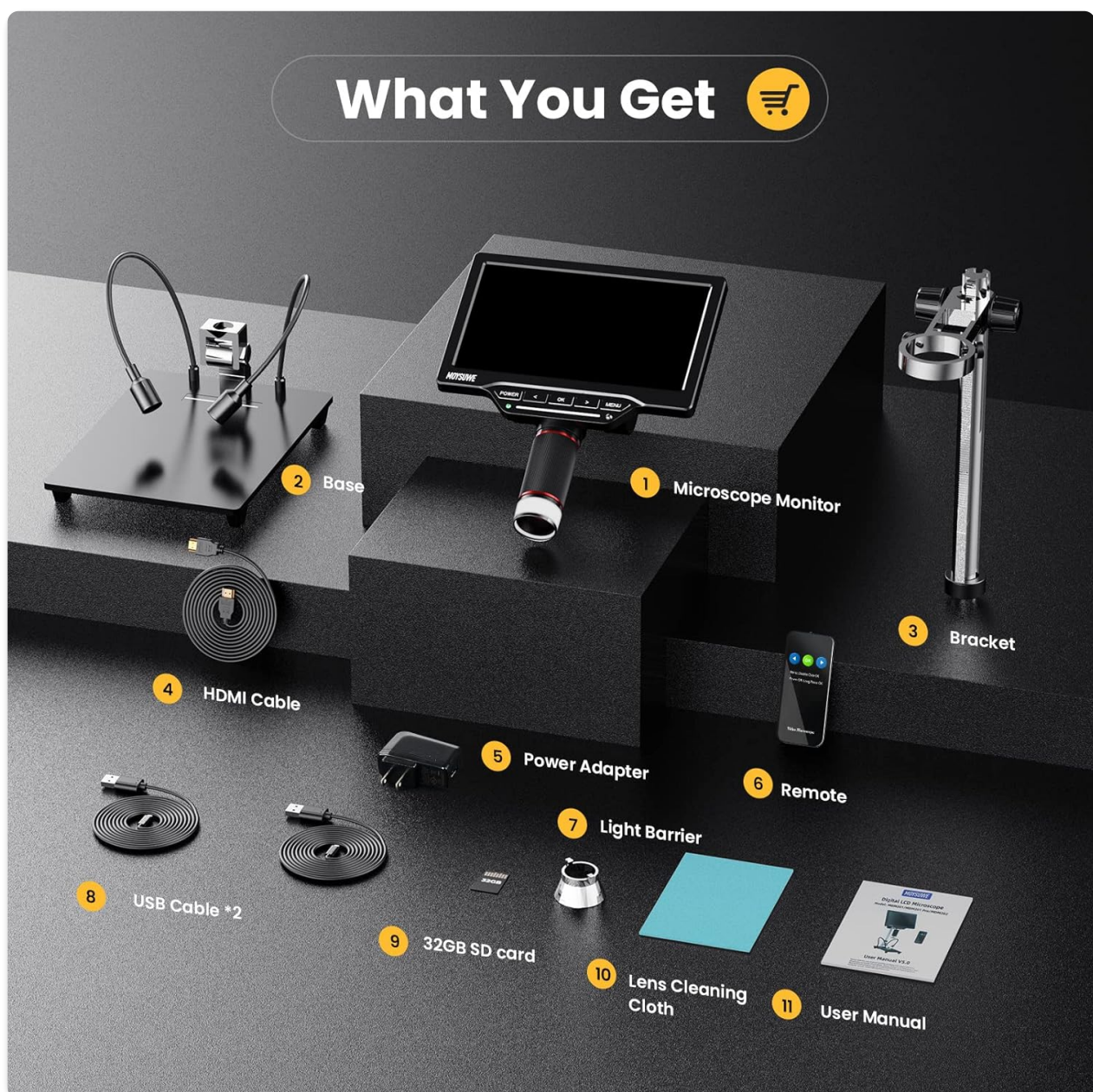


Figure 2: All components included with your MOYSUWE MDM201 Pro.

- Microscope Monitor (1)
- Aluminum Alloy Bracket (1)
- Aluminum Alloy Base (1)

- Wireless Remote Control (1)
- Power Adapter (1)
- HDMI Cable (1)
- USB Cable (2)
- 32GB SD Card (1)
- Lens Cleaning Cloth (1)
- User Manual (1)

SETUP

1. Assembly

1. Attach the aluminum alloy bracket to the aluminum alloy base using the provided screws.
2. Secure the microscope monitor unit to the top of the bracket. Ensure it is firmly attached.
3. Connect the two adjustable gooseneck LED lights to the base.
4. Insert the included 32GB SD card into the micro SD card slot on the back of the monitor.

Upgraded 10" Longer Bracket

Designed for Higher vision and Larger working space



Old Model
5 Inch



Figure 3: The upgraded 10-inch bracket provides ample working space.

2. Powering On/Off

- To power on, press and hold the 'POWER' button located on the front panel of the monitor until the screen illuminates.
- To power off, press and hold the 'POWER' button again until the screen shuts down.
- The device can operate on its internal rechargeable battery or be powered via the included power adapter.

3. Initial Screen Adjustment

- The 7-inch IPS HD screen can be tilted to various angles (up to 180°) for comfortable viewing. Adjust the screen to your preferred angle.

7" IPS HD Monitor

Present the clearest microworld



IPS

Screen

16:9

Aspect Ratio

1024*600

Pixels

1080P

HD

Figure 4: The 7-inch IPS HD monitor provides a clear view of the microworld.

OPERATING INSTRUCTIONS

1. Focusing and Zooming

- Place the object you wish to observe on the base plate directly under the microscope lens.
- Adjust the height of the microscope unit on the stand using the adjustment knob on the side of the bracket to get a rough focus.
- Fine-tune the focus by rotating the focus ring on the microscope lens itself.
- The microscope offers a magnification range from 3X to 1300X. Use the digital zoom function via the remote control or on-screen menu for further magnification.



Figure 5: Observe intricate details with the wide zoom range.

2. Adjusting Lighting

- The microscope features 6 LED lights around the lens and 2 adjustable gooseneck lights on the base.
- Use the touch control bar on the monitor's front panel to turn on/off and adjust the brightness of the main LED lights.
- The gooseneck lights can be independently adjusted for position and brightness to eliminate shadows and provide optimal clarity.

Touch Control **LED** Light

6 LED + **2** gooseneck Lights



Figure 6: Smart touch control for precise lighting adjustments.

3. Capturing Photos and Videos

- The microscope can capture photos up to 16MP (5376*3024) and record videos in 1920*1080 30fps or 1280*720 60fps.
- Press the 'OK' button on the monitor or the corresponding button on the wireless remote control to capture a photo or start/stop video recording.
- All captured media will be saved to the inserted 32GB SD card.

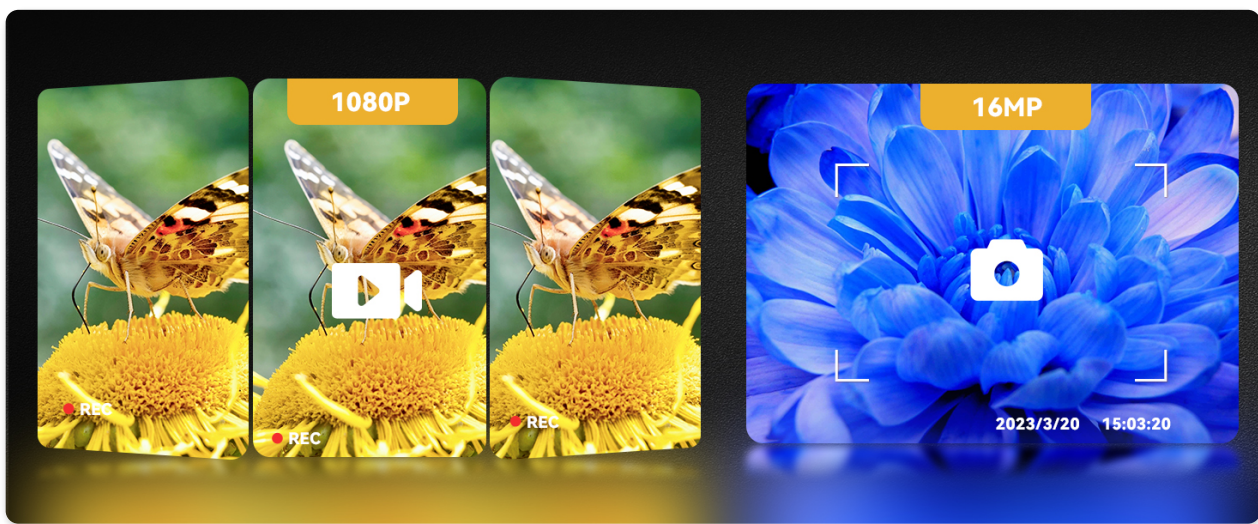


Figure 7: Easily record videos and capture high-resolution photos.

4. Wireless Remote Control

- The included wireless remote control allows for convenient operation without touching the microscope, minimizing vibrations during capture.
- Functions include digital zoom, image flip, photo/video capture, and screen freeze.

Convenient **Wireless Remote**





-  Digital zoom
-  Image flip
-  Take picture/video
-  Freeze screen



Figure 8: Control your microscope remotely for stable captures.

5. Connecting to External Displays (HDMI & USB)

- **HDMI Output:** Connect the microscope to a TV or projector using the provided HDMI cable for a larger, real-time HD view.
- **USB Output:** Connect to a Windows PC or Mac OS computer via USB. No extra software is needed; use default applications like "Windows Camera" (Windows) or "Photo Booth" (Mac OS).



Figure 9: Connect to external displays for enhanced viewing and collaboration.

6. Menu Navigation and Settings

- Press the 'MENU' button to access various settings, including image effects (color, B/W, negative), multi-direction image flip (horizontal mirror, vertical flip), and screen freeze modes (full screen, left screen, up screen, 1/4 screen).
- Use the arrow buttons to navigate through the menu options and 'OK' to select.

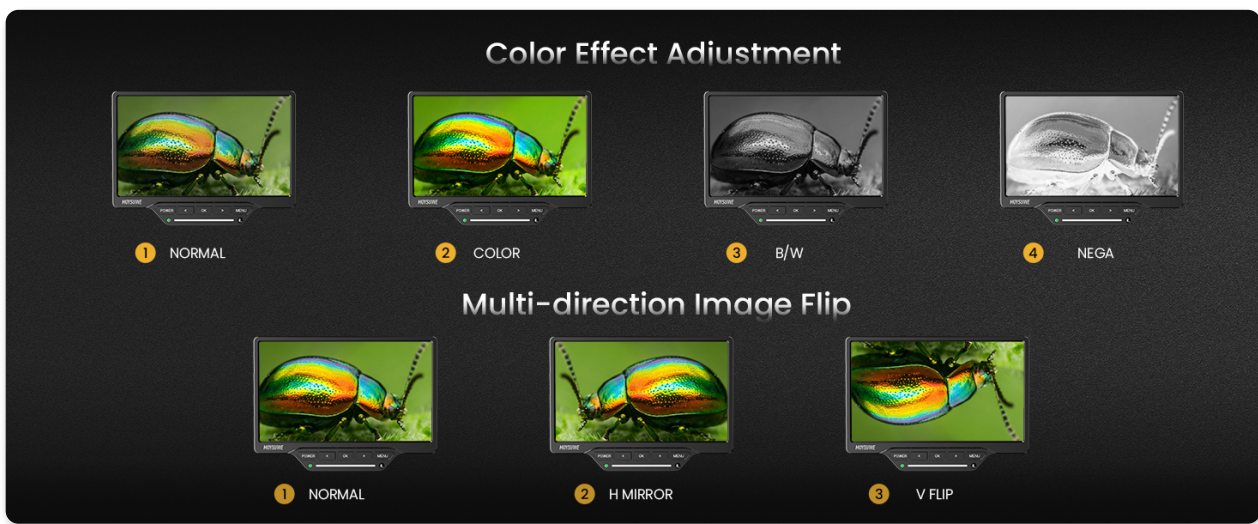


Figure 10: Customize your viewing experience with various image settings.

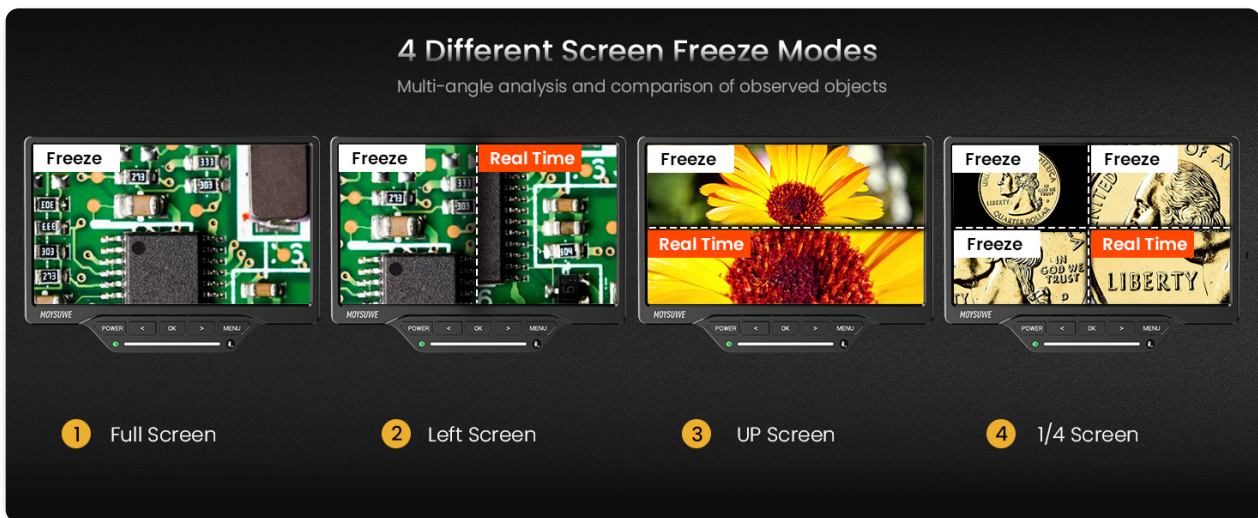


Figure 11: Utilize screen freeze modes for detailed comparison and analysis.

7. Official Product Video

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Video 1: MOYSUWE MDM201 Pro 7" IPS HD HDMI Digital Microscope Overview. This video provides a comprehensive look at the microscope's features and functionality.

MAINTENANCE

- **Cleaning:** Use the provided lens cleaning cloth to gently wipe the lens and screen. For the body, use a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Storage:** Store the microscope in a dry, dust-free environment when not in use.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge it regularly.

TROUBLESHOOTING

- **No Power:** Ensure the power adapter is correctly connected or the internal battery is charged.
- **Blurry Image:** Adjust the height of the microscope unit and fine-tune the focus ring on the lens. Ensure adequate lighting.
- **No Image on External Display:** Verify HDMI/USB cable connections. Ensure the correct input source is selected on your TV/monitor. For PC/Mac, confirm the default camera application is running.
- **SD Card Error:** Ensure the SD card is inserted correctly. Try reformatting the card (this will erase all data) or use a different compatible SD card.

SPECIFICATIONS

Feature	Detail
Product Dimensions	12.2 x 11.02 x 3.94 inches
Item Weight	3.61 pounds
Item Model Number	MDM201 Pro
Batteries	1 Lithium Ion batteries required (included)
Light Source Type	LED
Real Angle of View	180 Degrees
Magnification Maximum	1300 x
Voltage	5 Volts
Compatible Devices	Laptop, Television
Objective Lens Description	Achromatic

WARRANTY & SUPPORT

MOYSUWE is committed to providing high-quality products and excellent after-sales service. For any questions, technical support, or warranty claims, please refer to the contact information provided in your product packaging or visit the official MOYSUWE website.

Please retain your proof of purchase for warranty purposes.

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