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LINKMICRO LM407

LINKMICRO LM407 Digital LCD Microscope User Manual

1. INTRODUCTION

Thank you for choosing the LINKMICRO LM407 Digital LCD Microscope. This manual provides essential information for the proper setup, operation, and maintenance of your microscope. Designed for precision tasks such as PCB repair, SMD soldering, and detailed inspection, the LM407 offers a 7-inch HD LCD screen, 4MP image sensor, and up to 270x magnification. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.

2. PRODUCT OVERVIEW

The LINKMICRO LM407 is a versatile digital microscope equipped with a robust metal stand and advanced features for various applications. Familiarize yourself with the main components and their functions.



HDMI Output

- 270 magnification enlargement
- 7 inch display
- HDMI output
- 3 D effect

Figure 2.1: Main unit of the LINKMICRO LM407 Digital LCD Microscope, showing the 7-inch LCD screen, microscope body, and adjustable stand.

Key Features:

- **7-inch HD LCD Screen:** Provides a clear and detailed view of magnified objects.
- **4 MP Image Sensor:** Captures high-resolution images and videos.
- **Up to 270x Magnification:** Allows for detailed inspection of small components.
- **Robust Metal Stand:** Ensures stability and minimizes vibrations during operation.
- **Adjustable LED Lights:** Integrated lights with brightness control for optimal illumination.
- **HDMI Output:** Connects to external monitors for larger display and collaborative viewing.
- **Photo/Video Recording:** Supports capturing still images (up to 12M) and video (up to UHD 2880x2160 24 FPS).
- **IR Remote Control:** For convenient operation, including photo/video capture and zoom functions.
- **UV Filter:** Protects the lens from dust, heat, and smoke, while reducing interfering light.



9-11 in /
23-30 cm



**Larger
WORKING SPACE**

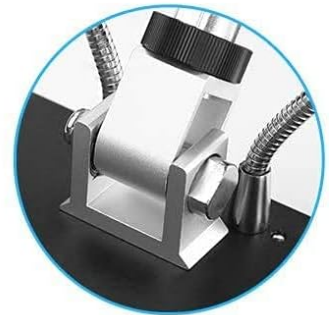


Figure 2.2: The adjustable metal stand provides a larger working space, with dimensions ranging from 23-30cm (9-11 inches) in height.



Figure 2.3: Diagram illustrating the USB port, HDMI output, memory card slot, and power connections for the microscope and spotlights.

3. SETUP INSTRUCTIONS

Follow these steps to assemble and prepare your LINKMICRO LM407 microscope for first use.

1. **Unpack Components:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Assemble the Stand:** Attach the microscope unit to the metal stand. Ensure it is securely fastened to prevent movement during use.
3. **Connect Power:** Connect the main power supply cable to the microscope. Plug the adapter into a standard power outlet.
4. **Insert Memory Card (Optional):** If you plan to record photos or videos, insert a compatible microSD card (not included) into the designated slot on the microscope unit.
5. **Connect Spotlights:** Plug the flexible LED spotlights into their respective ports on the base of the stand and

connect their power cable to the main power supply cable.

6. **Position the Microscope:** Place the microscope on a stable, flat surface. Adjust the height of the microscope unit on the stand to achieve the desired working distance.

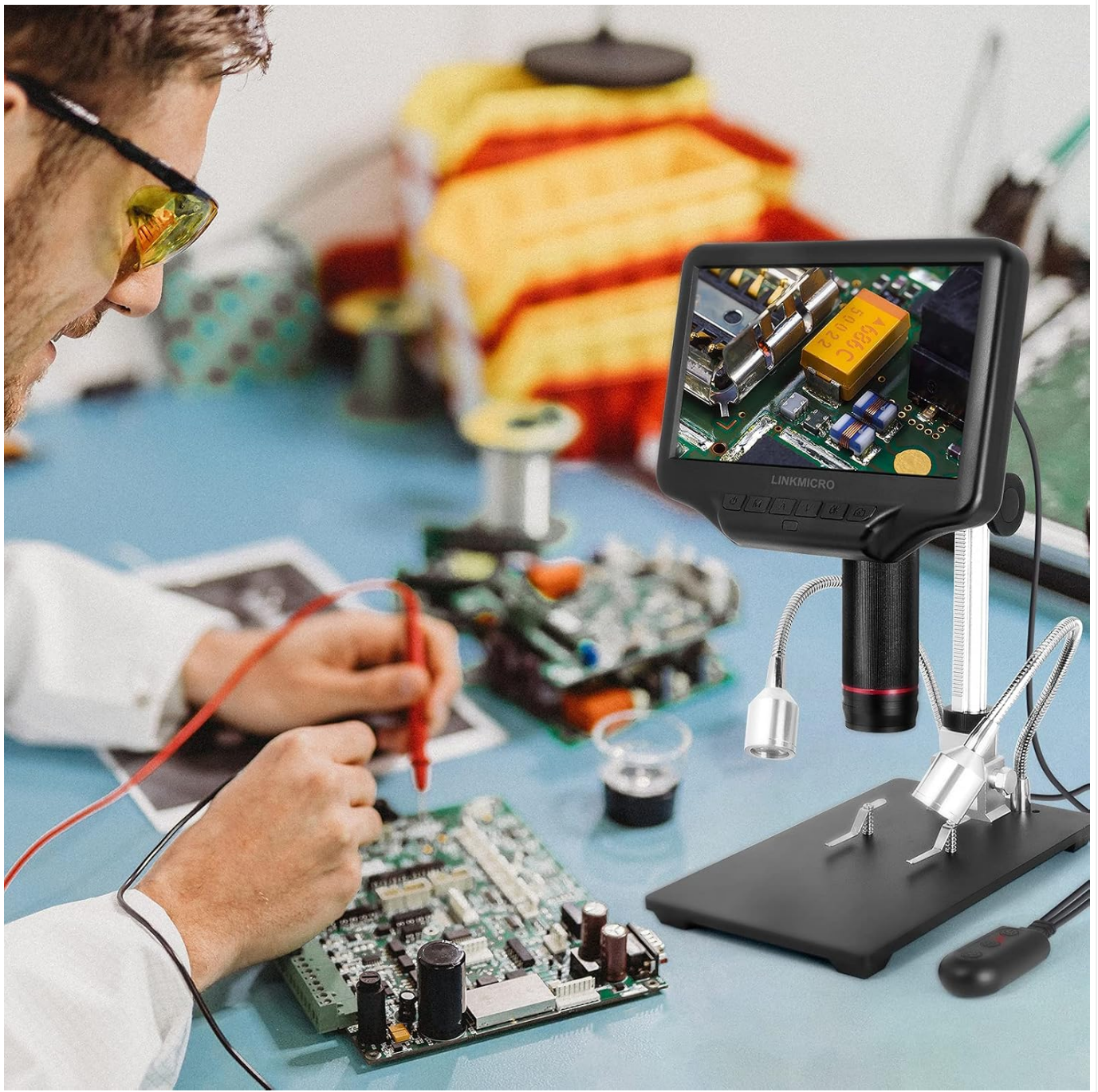


Figure 3.1: A user performing PCB repair with the LINKMICRO LM407 microscope, demonstrating a typical setup.

4. OPERATING INSTRUCTIONS

This section details how to operate your LINKMICRO LM407 microscope for various tasks.

4.1 Power On/Off

- Press the power button on the microscope unit to turn it on. The LCD screen will illuminate.
- To power off, press and hold the power button until the screen shuts down.

4.2 Adjusting Magnification and Focus

- **Magnification:** The microscope offers up to 270x magnification. Adjust the height of the microscope unit on the

stand to change the working distance and initial magnification. Fine-tune magnification using the zoom controls on the remote or microscope unit.

- **Focus:** Rotate the focus wheel on the microscope body until the image on the LCD screen is clear and sharp.

4.3 LED Lighting Control

The microscope is equipped with adjustable LED spotlights for optimal illumination.

- **Inline Switch Cable:** Use the switch cable to turn the LED lights on/off and adjust their brightness.
- **Remote Control:** The infrared remote control also provides buttons to adjust LED brightness.



Figure 4.1: The inline switch cable allows for easy control of the LED spotlights, including power and brightness adjustments.

4.4 Using the IR Remote Control

The included remote control provides convenient access to various functions without touching the microscope.

- **Photo/Video Capture:** Dedicated buttons allow you to take still images or start/stop video recording.
- **Zoom In/Out:** Adjust magnification digitally.

- **Menu Navigation:** Access system settings and options.
- **LED Brightness:** Control the intensity of the LED lights.



Figure 4.2: The functional remote control for the LM407 microscope, alongside examples of various display modes and a magnified view.

4.5 HDMI Output

Connect the LM407 to an external monitor or TV via the HDMI port for a larger viewing experience.

- Connect an HDMI cable (not included) from the microscope's HDMI output port to an HDMI input on your monitor.
- The microscope will automatically switch to HDMI output mode.
- **Note:** The image cannot be displayed on both the built-in 7-inch screen and an external HDMI monitor simultaneously.



Figure 4.3: The LM407 microscope connected to an external monitor via HDMI, displaying a magnified image of an insect's eye.

4.6 Photo and Video Recording

To capture images or videos, ensure a microSD card is inserted.

- Press the photo button on the microscope or remote to take a still image.
- Press the video button to start recording. Press it again to stop recording.
- Recorded files are saved to the microSD card.



Realistic 3D effect

Figure 4.4: A magnified view on the LM407 screen, demonstrating the realistic 3D effect and clarity for inspecting small electronic components.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your microscope.

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. Do not use abrasive materials or harsh chemicals.
- **UV Filter Protection:** The integrated UV filter helps protect the lens from dust, heat, and smoke, which is particularly useful during soldering tasks. Regularly inspect and clean the UV filter.



UV Filter at Buttom of The Lens

it prevents the interfering lights and clears the image, and it can also protect the lens from the heat/smoke/dust from outside environment

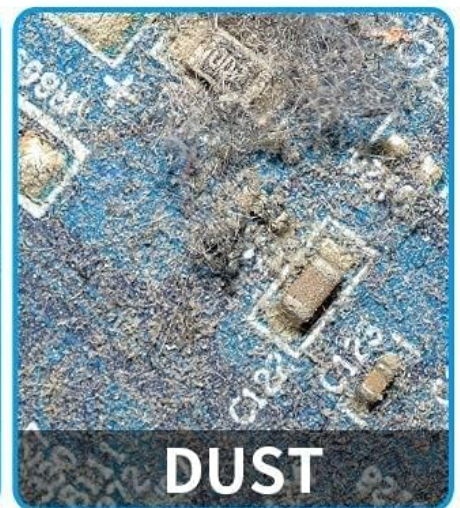


Figure 5.1: Detail of the UV filter at the bottom of the lens, designed to protect against dust, heat, and smoke, and to reduce interfering light.

- **General Cleaning:** Wipe the microscope body and stand with a dry or slightly damp cloth. Avoid getting moisture into electronic components.
- **Storage:** When not in use, store the microscope in a clean, dry environment, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your LM407 microscope, refer to the following common problems and solutions.

- **No Power:**
 - Ensure the power adapter is securely connected to the microscope and a working power outlet.
 - Check if the power button is pressed firmly.

• **No Image on Screen:**

- Verify the microscope is powered on.
- Adjust the focus wheel.
- If connected to an external monitor via HDMI, the internal screen will be off. Disconnect HDMI to use the internal screen.

• **Image is Blurry:**

- Adjust the focus wheel carefully.
- Ensure the object is within the working distance of the microscope.
- Clean the lens and UV filter if there is any dust or smudges.

• **LED Lights Not Working:**

- Check the connection of the spotlight cables to the main power supply.
- Use the inline switch cable or remote control to turn on the lights and adjust brightness.

• **Cannot Record Photos/Videos:**

- Ensure a compatible microSD card is inserted correctly.
- Check if the microSD card has sufficient free space.
- Format the microSD card if it's a new card or experiencing issues (this will erase all data).

7. SPECIFICATIONS

Below are the technical specifications for the LINKMICRO LM407 Digital LCD Microscope.

Feature	Specification
Model Number	LM407
Screen Size	7 inches
Image Sensor	4 MP
Maximum Magnification	270x
Video Resolution	Up to UHD 2880x2160 24 FPS
Photo Resolution	Up to 4032x3024 (12M)
Output Interface	HDMI, USB
Light Source	LED (adjustable)
Material	PAI, PLA, PC, PS, PE, Metal
Color	Black
Voltage	5 Volts
Item Weight	1.55 Kilograms
Product Dimensions (L x W x H)	32 x 22 x 10 cm

8. WARRANTY AND SUPPORT

Specific warranty information for the LINKMICRO LM407 Digital LCD Microscope is not provided in the available product data. For warranty details, technical support, or service inquiries, please refer to the documentation included with your purchase or contact LINKMICRO customer service directly through their official website or the retailer where the product was purchased.

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