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LINKMICRO LM210S

LINKMICRO LM210S Digital Microscope

USER MANUAL - MODEL LM210S

Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your LINKMICRO LM210S Digital Microscope. The LM210S is a high-performance digital microscope designed for various applications, including soldering, electronics inspection, coin observation, and educational exploration. It features a 10.1-inch 4K 60FPS display, HDMI output, USB connectivity, and audio recording capabilities.

Package Contents

Please verify that all items listed below are included in your package:

- 1x LM210S 10 inch Microscope monitor
- 1x Large Metal Base
- 1x Column with Gears
- 1x Power Adapter
- 1x Power Cable
- 1x HDMI Cable
- 1x USB Data Cable
- 1x 64GB SD Card (pre-installed)
- 1x Lighted Slides Holder
- 5x Prepared Microscope Slides
- 1x Card Reader
- 1x Remote Control
- 1x Cleaning Cloth
- 1x Metal Clips
- 1x User Manual (this document)

Setup Guide

Follow these steps to assemble and prepare your LM210S Digital Microscope for use:

1. **Assemble the Stand:** Attach the column with gears to the large metal base. Ensure it is securely fastened.
2. **Mount the Microscope Monitor:** Carefully slide the microscope monitor onto the column. Use the thumbscrews to secure it at the desired height.
3. **Insert SD Card:** The 64GB SD card is typically pre-installed. If not, gently insert it into the SD card slot on the side of the monitor until it clicks into place.
4. **Connect Power:** Connect the power adapter to the microscope monitor and plug it into a power outlet.
5. **Position Gooseneck Lights:** Adjust the flexible gooseneck lights to illuminate your working area effectively.
6. **Optional HDMI Connection:** If you wish to display the image on an external monitor, connect the provided HDMI cable from the microscope's HDMI port to your monitor's HDMI input.



Image: The LINKMICRO LM210S Digital Microscope fully assembled, showing the monitor, adjustable stand, remote control, and dual gooseneck LED lights.

Operating Instructions

Powering On/Off

Press and hold the power button on the microscope monitor or the remote control to turn the device on or off. The screen will illuminate upon startup.

Focus and Magnification Adjustment

To adjust the focus, rotate the focus wheel located on the barrel of the microscope. For magnification, adjust the height of the microscope monitor on the column. The LM210S offers up to 1760X magnification (when connected to a 32-inch 4K monitor with 8x digital zoom).

Display and Recording Modes

The LM210S supports simultaneous 4K 60FPS display on its built-in 10.1-inch screen and an external HDMI monitor. It also records 4K 60FPS video and captures 64MP images.

4K 60FPS Real-time Display and Simultaneous Recording

HDMI and 10.1" Screen

4K 60FPS

HDMI 2.0

HDMI 2.0 18 Gbps

HDMI 1.4 10.8 Gbps

HDMI 2.0 port

Image: The microscope's capability for 4K 60FPS real-time display and simultaneous recording on both its integrated screen and an external HDMI monitor.

High-speed, Move Faster and See Clearer !



Say goodbye to ghosting and vertigo!



Image: Visual demonstration highlighting the superior smoothness and clarity of 4K 60FPS video compared to 4K 30FPS, reducing ghosting and motion blur.

Audio Recording

The LM210S features a built-in noise-cancelling microphone. To activate audio recording, refer to the on-screen menu or remote control options. This feature is particularly useful for live broadcasts or tutorial production.

Support USB Output, Born for Live Streaming



The First Microscope Equipped with a
Built-in Noise-cancelling Microphone

Image: The microscope connected to a laptop, illustrating its USB output capability for live streaming and the integrated noise-cancelling microphone for audio recording.

Image and Video Capture

Use the dedicated buttons on the monitor or remote control to capture 64MP still images or record 4K 60FPS videos. All captured media is saved to the inserted 64GB SD card.

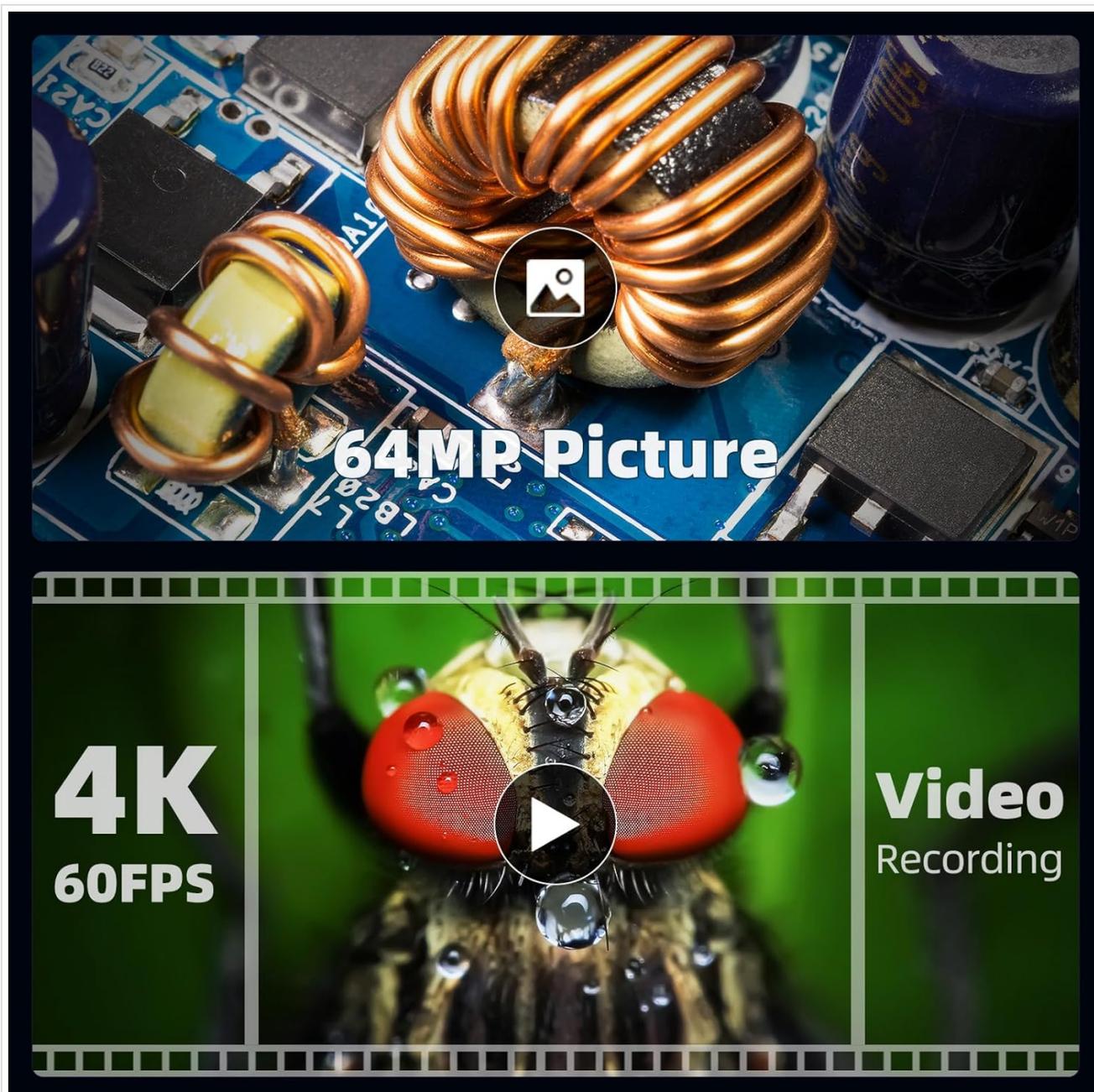


Image: The microscope's display showcasing its ability to capture high-resolution 64MP images and record smooth 4K 60FPS videos.

Lighting Control

The LM210S is equipped with a built-in 8-LED ring light at the top of the lens and two adjustable gooseneck LED lights. Use the controls on the monitor or remote to adjust brightness and direction for optimal illumination of your subject.

Coin Observation

The taller 12.6-inch stand provides ample working distance, allowing for a full view of larger objects like silver dollars (38.1mm) and half dollars (30.61mm). Adjust the height and lighting to achieve clear, detailed views of coins.

Get full view of Silver Coins

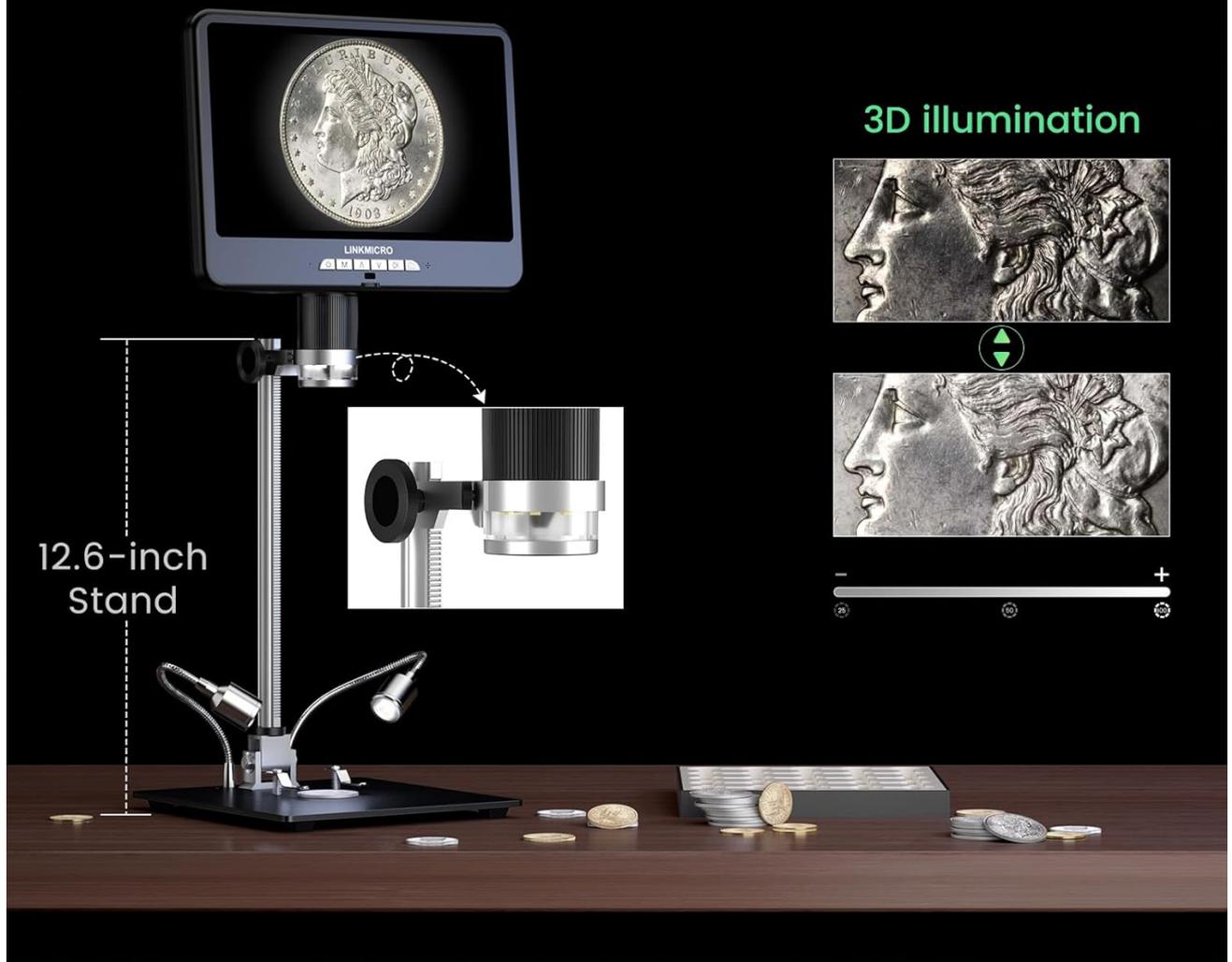
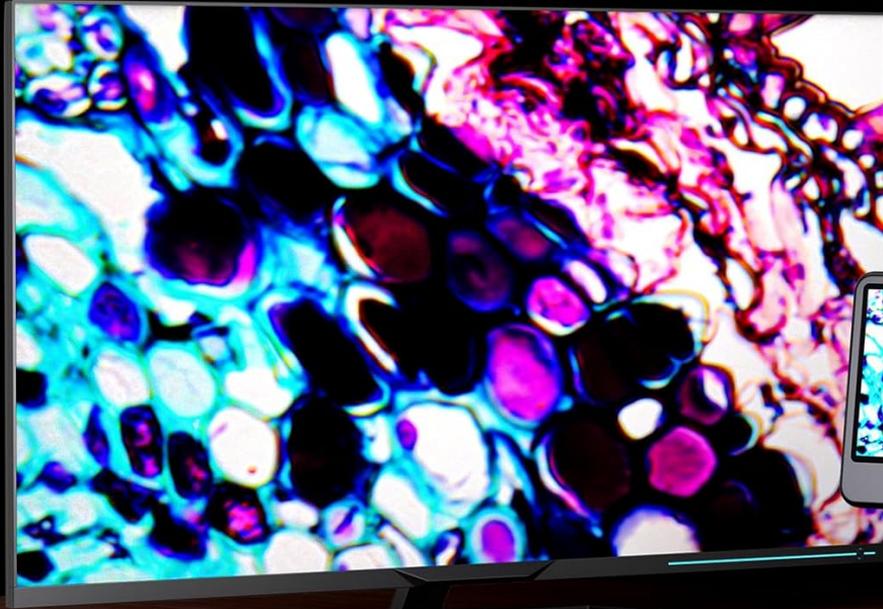


Image: The microscope set up to view a silver coin, demonstrating the extended working distance provided by the 12.6-inch stand for full coin views and enhanced 3D illumination.

Microscope Slides Exploration

Utilize the included lighted slides holder and five prepared microscope slides to explore microscopic details. The bottom light source in the holder ensures proper illumination for transparent specimens.

Explore the Microcosm with Your Little Ones



Upgraded slides holder with a bottom light source,
5pcs prepared slides included



Image: The microscope displaying a magnified view of plant cells, illustrating its use for exploring the microcosm with prepared slides and the included slides holder.

Maintenance

- **Cleaning the Lens and Screen:** Use the provided cleaning cloth or a soft, lint-free cloth to gently wipe the lens and screen. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the lens/screen).
- **Cleaning the Body:** Wipe the microscope body and stand with a dry or slightly damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Consider covering it to prevent dust accumulation.
- **SD Card Management:** Regularly back up important images and videos from the SD card to prevent data loss. Format the SD card periodically to maintain optimal performance.

Troubleshooting

Problem	Possible Cause	Solution
No image on screen/HDMI output.	Power not connected, device not turned on, HDMI cable loose/faulty, incorrect input selected on external monitor.	Ensure power adapter is connected and device is on. Check HDMI cable connection. Select correct HDMI input on external monitor.
Image is blurry or out of focus.	Focus wheel not adjusted, incorrect working distance, dirty lens.	Rotate the focus wheel until the image is clear. Adjust the height of the microscope. Clean the lens with the provided cloth.
Cannot record video or capture images.	SD card full, SD card not inserted correctly, SD card faulty.	Check SD card capacity and delete unnecessary files. Reinsert SD card. Try a different SD card if available.
No audio in recorded videos.	Microphone disabled in settings, volume too low.	Check the microphone settings in the microscope's menu and ensure it is enabled. Adjust volume levels.
Gooseneck lights not working.	Lights not connected properly, power issue, light control setting.	Ensure the lights are securely plugged in. Check power connection. Adjust brightness settings via monitor or remote.

Specifications

Feature	Detail
Model Name	LM210S
Display Screen	10.1-inch IPS
Video Output	HDMI 2.0 (3840x2160 @ 60FPS)
Video Recording Resolution	4K (3840x2160) @ 60FPS
Image Resolution	64MP (9280x6936)
Magnification Maximum	1760x (with 32-inch 4K monitor, 8x digital zoom)
Stand Height	12.6 inches (32 cm)
Light Source Type	LED (Built-in ring light + Gooseneck lights)
Storage	64GB SD Card (included)
Audio Recording	Built-in Noise-cancelling Microphone
Color	Black
Item Weight	3.96 pounds (1.8 kg)
Power Voltage	5 Volts
Compatible Devices	Personal Computer (via USB)

Warranty and Support

LINKMICRO products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official LINKMICRO website. Please retain your proof of purchase for warranty claims.

For further assistance, you may contact LINKMICRO customer service directly through their official channels.

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