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Leanking MK7

Leanking Digital Microscope MK7 User Manual

Model: MK7

1. Introduction

The Leanking Digital Microscope MK7 is a versatile observation tool designed for a wide range of applications, from educational exploration for children to detailed inspection for hobbyists and technicians. Featuring a 7-inch display, built-in battery, and adjustable lighting, it provides clear, magnified views of various objects without requiring external devices.
Key features include:

- **7-Inch Anti-Glare Screen:** Provides clear, real-time images directly on the device.
- **Built-In 1800mAh Battery:** Offers 2.5-3.5 hours of portable use.
- **Dual Adjustable LED Lights:** Illuminates objects effectively, reducing shadows.
- **32GB SD Card Included:** For capturing and storing photos and videos.
- **Wide Magnification Range:** Adjustable from 5X to 1000X.
- **PC Connectivity:** Allows real-time viewing on a computer.

2. Package Contents

Verify that all items are present in the package:

- Leanking Digital Microscope Unit
- Adjustable Stand
- USB-C Charging Cable
- 32GB TF Card (pre-installed or separate)
- Remote Control (if included with your model)



Image: Components of the Leanking Digital Microscope MK7, including the main unit, stand, USB-C cable, and remote control.

3. Setup Instructions

3.1 Assembling the Stand

1. Attach the microscope unit to the adjustable stand arm.
2. Secure the stand arm to the base using the provided screws or locking mechanism.
3. Ensure all connections are firm and stable.

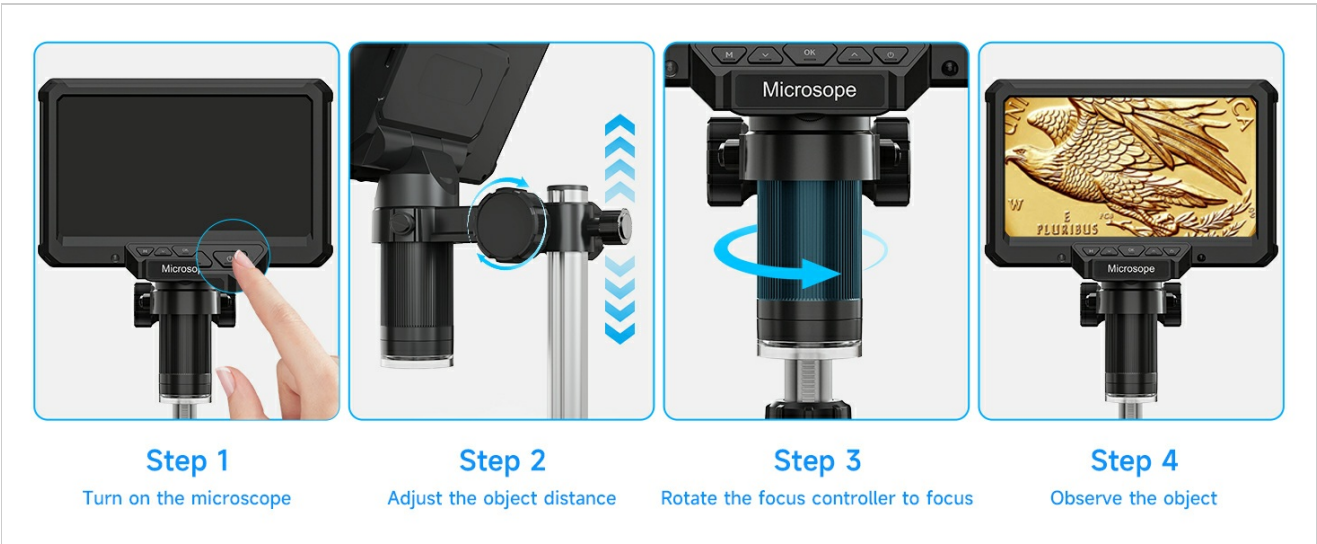


Image: Detailed view of the microscope's adjustable stand, showing height adjustment, object scaling, screen rotation, and the built-in battery compartment.

3.2 Charging the Battery

- Connect the USB-C cable to the microscope's charging port and to a standard USB power adapter (not included) or a computer USB port.
- The charging indicator light will illuminate. A full charge typically takes 3-4 hours.
- The microscope can be used while charging.



Image: The microscope charging via USB-C, highlighting its portable battery life.

3.3 Inserting the SD Card

- Locate the TF card slot on the side of the microscope unit.
- Insert the provided 32GB TF card into the slot until it clicks into place. Ensure the correct orientation.
- To remove, gently press the card until it springs out.

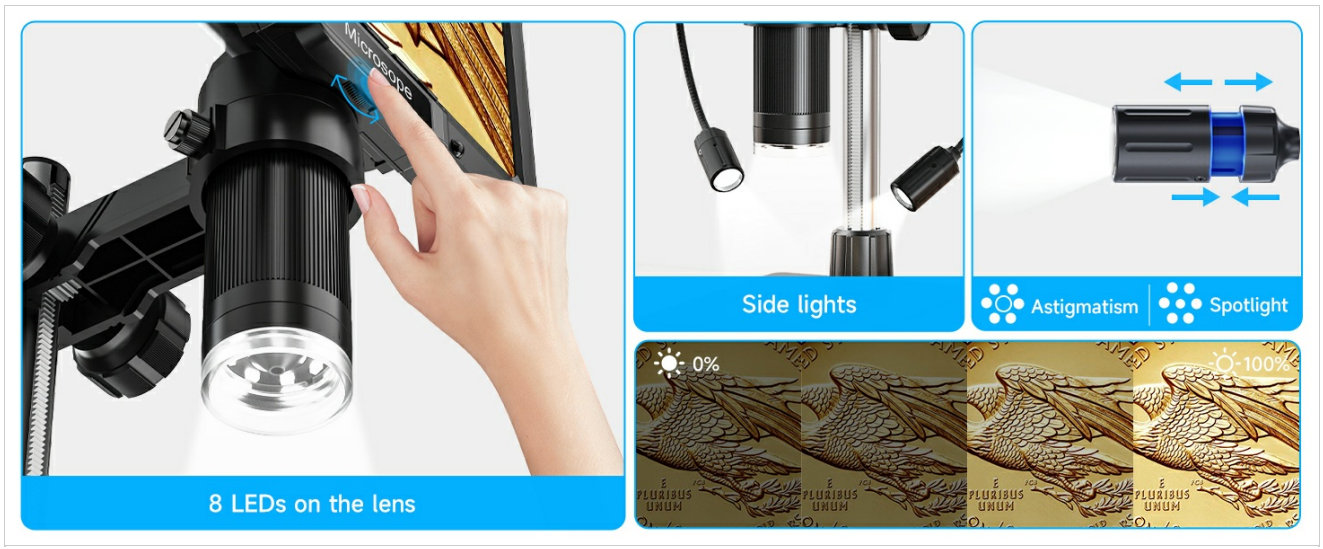


Image: Insertion of the 32GB TF card into the microscope, enabling video and photo capture.

3.4 Connecting to a PC/Laptop

- Connect the microscope to your computer using the USB-C cable.
- The microscope should be recognized as a webcam or storage device.
- For real-time viewing, open a webcam application on your computer. The microscope is compatible with both Mac and Windows operating systems.

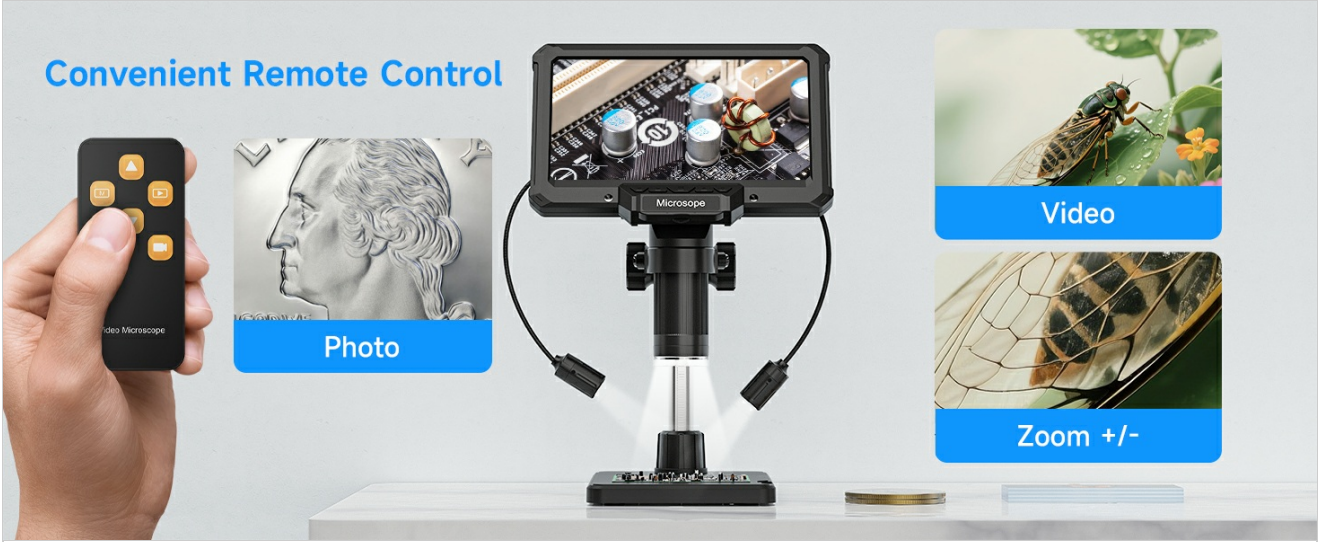


Image: The microscope connected to a laptop for real-time viewing on a larger screen.

4. Operating Instructions

4.1 Powering On/Off

- Press and hold the power button (usually located on the front panel below the screen) for a few seconds to turn the microscope on or off.
- The 7-inch screen will display the live view.



Image: The microscope in use for examining a coin, demonstrating its application for detailed inspection.

4.2 Adjusting Magnification and Focus

1. Place the object you wish to observe on the base of the stand.
2. Adjust the height of the microscope unit using the stand's adjustment knob to get a rough focus.
3. Rotate the focus wheel on the microscope lens barrel to achieve a clear, sharp image on the screen.
4. The magnification range is 5X to 1000X.



Image: Step-by-step guide for operating the microscope, from powering on to focusing and observation.



Image: A child and adult using the microscope, demonstrating its ease of use for educational purposes.

4.3 Adjusting Lighting

- The microscope features a main LED light around the lens and two adjustable assist LED lights on flexible arms.
- Use the dedicated light control buttons on the microscope or remote control to adjust the brightness of the main light.
- Position the assist lights to eliminate shadows and provide optimal illumination for reflective or deep objects.



Image: The microscope used for inspecting a circuit board, demonstrating its application in electronics.



Image: Controls for the main and assist lights, showing adjustable brightness and positioning options.

4.4 Capturing Photos and Videos

- With the TF card inserted, press the "Photo" button to capture a still image.
- Press the "Video" button to start recording. Press it again to stop recording.
- Captured media is saved directly to the TF card.

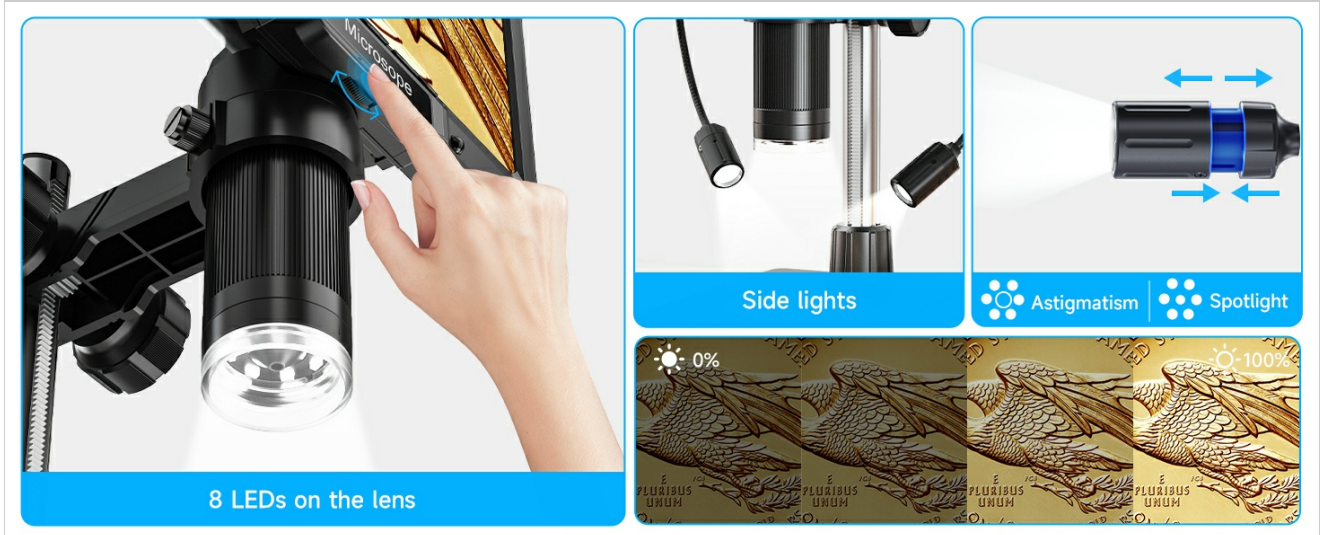


Image: Insertion of the 32GB TF card into the microscope, enabling video and photo capture.

4.5 Using the Remote Control

- The remote control allows for hands-free operation, including capturing photos, recording videos, and adjusting zoom.
- Point the remote control towards the microscope's IR receiver.



Image: Components of the Leanking Digital Microscope MK7, including the main unit, stand, USB-C cable, and remote control.

5. Maintenance

- **Cleaning the Lens and Screen:** Use a soft, lint-free cloth specifically designed for optical surfaces. Do not use abrasive cleaners or solvents.
- **Cleaning the Body:** Wipe the microscope body with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods.
- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust and damage.

6. Troubleshooting

Problem	Possible Cause	Solution
Microscope does not power on.	Low battery; Power button not pressed correctly; Faulty cable.	Charge the battery fully. Press and hold the power button for 3-5 seconds. Try a different USB-C cable.
Image is blurry or out of focus.	Incorrect object distance; Focus wheel not adjusted.	Adjust the stand height to change the distance between the lens and the object. Rotate the focus wheel slowly until the image is sharp.
Screen is too dark or too bright.	Lighting not adjusted.	Adjust the brightness of the main LED light and reposition the assist lights as needed.

Problem	Possible Cause	Solution
Cannot save photos/videos.	No TF card inserted; TF card full; TF card error.	Ensure the TF card is correctly inserted. Check if the TF card has sufficient space. Format the TF card (this will erase all data).
PC connection issues.	Incorrect USB mode; Driver issues; Faulty USB port/cable.	Ensure the microscope is in the correct USB mode (e.g., PC Camera mode). Try a different USB port or cable. Check your computer's device manager for driver issues.

7. Specifications

Feature	Detail
Model Number	MK7
Screen Size	7-inch
Magnification Range	5X - 1000X
Light Source Type	LED (Main + Dual Assist Lights)
Power Source	Battery Powered (1 Nonstandard Battery included)
Battery Capacity	1800mAh (approx. 2.5-3.5 hours usage)
Storage	Supports TF Card (32GB included)
Material	PVC, Aluminum Alloy
Color	Black
Item Weight	1.5 pounds
Package Dimensions	9.69 x 8.35 x 3.23 inches

8. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official Leanking website. Specific warranty terms and conditions may vary.
For technical support, product inquiries, or service, please contact Leanking customer support through their official channels. Contact information can typically be found on the manufacturer's website or in your product packaging.
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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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Why will the battery in my new Leanking MK7 Digital Microscope not charge, and how can I access or replace the battery?

Based on the Leanking MK7 manual and specifications, here is how to address the battery and charging issues: Charging Requirements: The unit requires a 5V 1A power source via a USB-C cable. Ensure you...

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