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› Mechanic LS72 Plus High Definition Microscope Ring Light User Manual

WYLIE LS72 Plus

Mechanic LS72 Plus High Definition Microscope Ring Light

User Manual

Model: LS72 Plus

1. INTRODUCTION

The Mechanic LS72 Plus is a professional-grade high-definition microscope ring light designed to provide superior illumination for detailed inspection and repair work. Featuring 72 high-definition LEDs, advanced polarization technology, and a nano-scale coating, this device effectively eliminates glare and reflections, ensuring crystal-clear viewing of intricate details. Its adjustable brightness and uniform illumination make it an essential tool for various microscope and camera applications.



Figure 1: Mechanic LS72 Plus Ring Light and accompanying tools.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x Mechanic LS72 Plus High Definition Microscope Ring Light
- 1x Protective Gloves (ESD BGA repair soldering working antiskid carbon fiber gloves)
- 1x Screen Opener (WYLIE K1 blade durable screen opener)
- 1x USB Cable (for power)
- 1x WYLIE Name Card (PVC fine frosted plastic material removing screen functional card)
- 1x WYLIE WL-5A Solder paste scraper (dismantling machine piece non destructive tin scraping slice)



Figure 2: All components included in the product package.

3. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.7 x 4.7 x 2.5 inches
Item Weight	12 ounces
LED Quantity	72 high-definition LEDs
Color Temperature	10000K to 12000K (Adjustable)
Connectivity Technology	USB, Wired
Special Features	Polarization Technology, Nano-Scale Coating, Adjustable Brightness, Continuous LED
Manufacturer	Mechanic

4. SETUP GUIDE

1. **Unpack Components:** Carefully remove the Mechanic LS72 Plus ring light and all accessories from the packaging.
2. **Inspect for Damage:** Before use, visually inspect the ring light and cable for any signs of damage. Do not use if damaged.
3. **Mounting to Microscope:** The ring light is designed to fit around the objective lens of compatible stereo microscopes. Gently slide the ring light onto the microscope's objective housing until it is securely in place. Ensure it does not obstruct the view or movement of the microscope.
4. **Connect Power:** Connect the provided USB cable to the ring light's power input port. Plug the other end of the USB cable into a compatible USB power source (e.g., a computer USB port, a USB wall adapter, or a power bank).
5. **Initial Power On:** Once connected to power, the ring light should be ready for operation.

RING DESIGN UNIFORM ILLUMINATION

The unique design of the ring light makes the illumination more uniform for microscopes, in the process of using

Can greatly improve the problem of reflective glare

It is a must-have tool for repair masters



Figure 3: Proper mounting of the ring light on a microscope for uniform illumination.

5. OPERATION

5.1 Power On/Off and Brightness Adjustment

The Mechanic LS72 Plus features an integrated control unit for power and brightness adjustment. Locate the control knob on the power cable.

- **Power On:** Rotate the knob clockwise from the "OFF" position. The LEDs will illuminate.
- **Brightness Adjustment:** Continue rotating the knob clockwise to increase brightness (MAX) and counter-clockwise to decrease brightness (MIN).
- **Power Off:** Rotate the knob counter-clockwise until it clicks into the "OFF" position.



Figure 4: Brightness control knob for precise illumination adjustment.

5.2 Polarization Technology

The LS72 Plus incorporates advanced polarization technology and a nano-scale coating to minimize glare and reflections, which are common issues when viewing reflective surfaces under a microscope. This feature enhances image clarity and detail.

- The dual polarized lens system works to filter out unwanted stray light and reflections.
- The nano-scale coating on the lens surface precisely controls light reflection, improving the utilization of light and making the image clearer and richer in detail.



Figure 5: Illustration of glare and reflection elimination.

DUAL POLARIZED LENS



ELIMINATES STRAY LIGHT

Figure 6: Dual polarized lens design for eliminating stray light.

NANOSCALE COATING

Precise control of light reflection on the lens surface effectively reduce the interference of reflected light, improve the utilization of light. It also makes the image clearer and richer in detail.

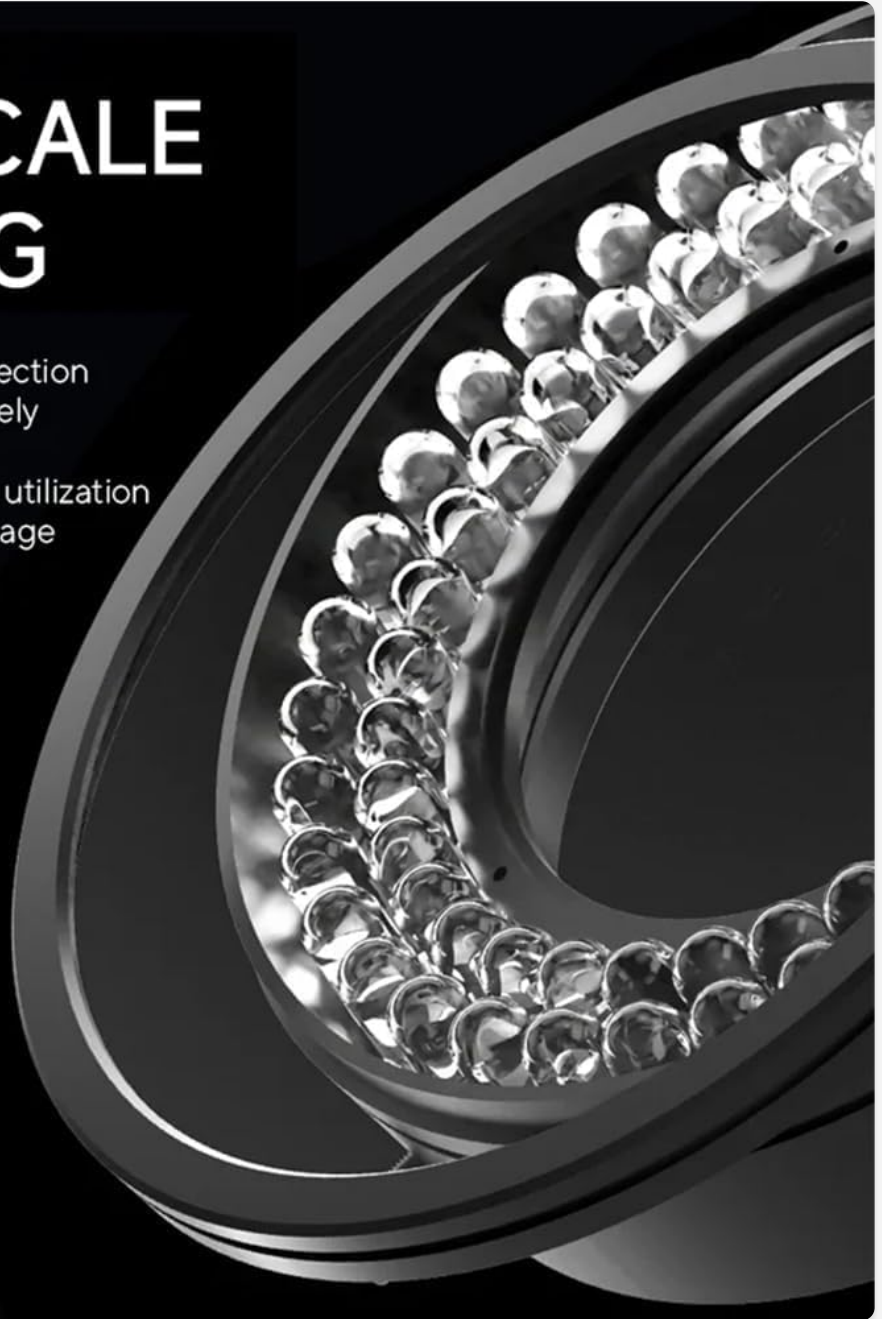


Figure 7: Nanoscale coating for enhanced image clarity.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mechanic LS72 Plus ring light.

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the exterior of the ring light. For the lens, use a specialized lens cleaning solution and a microfiber cloth to avoid scratches. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the ring light in a clean, dry, and dust-free environment. Avoid extreme temperatures and humidity.
- **Cable Care:** Do not bend or crimp the USB power cable excessively. Always grasp the plug, not the cable, when disconnecting from a power source.
- **Avoid Impact:** Protect the device from drops or impacts, which can damage the internal components or the LED array.

7. TROUBLESHOOTING

If you encounter issues with your Mechanic LS72 Plus, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty cable.	Ensure USB cable is securely connected to both the ring light and the power source. Try a different USB port or power adapter. Check if the brightness knob is turned to the "ON" position.
Light is dim or flickers.	Insufficient power, brightness set too low, faulty LEDs.	Increase brightness using the control knob. Ensure the USB power source provides sufficient current (e.g., 5V/1A or higher). Try a different power source. If flickering persists, contact customer support.
Glare or reflections persist.	Improper positioning, extreme reflective surface.	Adjust the angle of the ring light or the microscope. Ensure the polarized lens is clean. While the polarization significantly reduces glare, some extreme reflective surfaces may still show minimal reflection.
Ring light does not fit microscope.	Incompatible microscope objective diameter.	Verify the diameter of your microscope's objective housing against the ring light's specifications (typically 45-70mm). This ring light is designed for standard stereo microscopes.

8. WARRANTY INFORMATION

WYLIE products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation provided at the time of purchase or contact WYLIE customer support.

9. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Mechanic LS72 Plus High Definition Microscope Ring Light, please contact WYLIE customer support. Contact information can typically be found on the product packaging or the official WYLIE website.
Please have your product model (LS72 Plus) and purchase details ready when contacting support.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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.

Submit question