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> [AmScope](#) /

> AmScope LED-96S 96 LED Ring Light Instruction Manual

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Model: LED-96S

1. PRODUCT OVERVIEW

The AmScope LED-96S is an intensity-adjustable 96-LED ring light designed to provide cool, even, intense, and shadow-free illumination for single zoom microscopes. It features variable intensity control and is compatible with power supplies ranging from 110V to 240V.

Package Contents:

- One (1) 96-LED Ring Light
- One (1) Control Box
- One (1) Power Cable



Figure 1: Included components of the AmScope LED-96S 96 LED Ring Light kit.

2. SETUP INSTRUCTIONS

1. **Attach the Ring Light to the Control Box:** Connect the cable from the 96-LED ring light to the designated port on the control box. Ensure the connection is secure.
2. **Mount the Ring Light:** The ring light is designed to mount onto microscope objectives or bodies with a diameter up to 2 inches (52mm). Carefully slide the ring light onto the microscope's objective housing until it is firmly in place. The inside diameter of the ring light is 1-7/16 inches (36mm).
3. **Connect Power:** Plug the provided power cable into the control box, then connect the other end to a standard electrical outlet (110-240V, 50-60Hz).



Figure 2: The 96-LED ring light connected to the control box.



Figure 3: The LED ring light installed on a microscope.

3. OPERATING INSTRUCTIONS

1. **Power On:** Locate the ON/OFF switch on the control box. Flip the switch to the "ON" position to power on the ring light. The LEDs will illuminate.
2. **Adjust Intensity:** Use the rotary dial labeled "MIN" to "MAX" on the control box to adjust the brightness of the LED illumination. Turn the dial clockwise to increase intensity and counter-clockwise to decrease it.
3. **Power Off:** When finished, flip the ON/OFF switch to the "OFF" position.

The 96 bright white LED bulbs provide intense and focused shadow-free illumination, enhancing visibility for microscope observations.

4. MAINTENANCE

- **Cleaning:** Ensure the device is powered off and unplugged before cleaning. Use a soft, dry cloth to wipe the exterior of the ring light and control box. Do not use liquid cleaners or solvents, as they may damage the components.
- **Storage:** Store the ring light and control box in a clean, dry environment when not in use. Avoid extreme temperatures and humidity.
- **LED Longevity:** The LED bulbs have an estimated life of 100,000 hours, requiring minimal replacement under normal operating conditions.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Ring light does not turn on.	<ul style="list-style-type: none">◦ Power cable not securely connected.◦ Power outlet not functioning.◦ ON/OFF switch is in the "OFF" position.	<ul style="list-style-type: none">◦ Ensure all power connections are firm.◦ Test the power outlet with another device.◦ Flip the ON/OFF switch to "ON".
Light intensity cannot be adjusted.	<ul style="list-style-type: none">◦ Intensity control dial (rheostat) malfunction.	<ul style="list-style-type: none">◦ Ensure the dial is being turned correctly. If the issue persists, contact customer support for assistance.
Light is dim or flickers.	<ul style="list-style-type: none">◦ Low power supply.◦ Faulty connection.	<ul style="list-style-type: none">◦ Check power connections.◦ Ensure the power outlet provides stable voltage.

6. SPECIFICATIONS

Model Number	LED-96S
LED Quantity	96 bright white LED bulbs
LED Life Expectancy	100,000 hours
Illumination Type	Intense, focused, shadow-free
Intensity Control	Variable
Mounting Size	Up to 2 inches (52mm) in diameter
Inside Diameter	1-7/16 inches (36mm)
Outside Diameter	3 inches (78mm)
Power Input	110-240V, 50-60Hz (auto switching)
Product Dimensions	10 x 5.2 x 2.1 inches

Item Weight	14.4 ounces
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7. WARRANTY INFORMATION

The AmScope LED-96S 96 LED Ring Light comes with **one-year warranty** against manufacturing defects. Please retain your proof of purchase for warranty claims. For service under warranty, contact AmScope customer support.

8. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact AmScope customer service. You can find more information and contact details by visiting the official AmScope store:

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