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› LW Scientific ILL-LEDV-R483 Variable LED Ring Light - 48 Bulb User Manual

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LW Scientific ILL-LEDV-R483 Variable LED Ring Light - 48 Bulb User Manual

Model: ILL-LEDV-R483

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your LW Scientific ILL-LEDV-R483 Variable LED Ring Light. This device is designed to provide shadow-free, cold illumination for various microscope applications, enhancing visibility and detail.

2. SAFETY INFORMATION

- Always ensure the power supply matches the device's requirements (110v / 220v auto switching).
- Do not expose the unit to moisture or extreme temperatures.
- Disconnect power before cleaning or performing any maintenance.
- Avoid direct eye exposure to the LED light for prolonged periods.
- Keep out of reach of children. Recommended age for use is 8 years and up, under adult supervision.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- LW Scientific ILL-LEDV-R483 Variable LED Ring Light (48 Bulb)
- Power Cord

4. SETUP

1. **Attach to Microscope:** The ring light is designed for easy attachment to most microscopes. Utilize the long thumb screws to secure the ring light around the microscope objective. Ensure the microscope's mount ring diameter is between 36mm and 61mm for proper fit.
2. **Connect Power:** Plug the power cord into the ring light's power input, then connect the other end to a suitable electrical outlet. The unit features 110v / 220v auto switching.



Figure 1: The LW Scientific ILL-LEDV-R483 Variable LED Ring Light. This image shows the circular light unit with its power cord connection and three adjustable thumb screws used for mounting it onto a microscope objective.

5. OPERATING INSTRUCTIONS

1. **Power On:** Once connected to power, the ring light is ready for operation. Locate the power switch (if present, otherwise it's controlled by the dimmer).
2. **Adjust Intensity:** Use the adjustable dimmer control to vary the brightness of the 48 LED bulbs. Rotate the dimmer knob clockwise to increase intensity and counter-clockwise to decrease it.
3. **Power Off:** Turn the dimmer knob fully counter-clockwise until the light turns off, or disconnect from the power source.

6. MAINTENANCE

- **Cleaning:** Ensure the unit is unplugged before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **LED Bulb Life:** The 48 white LED bulbs have an estimated lifespan of 10,000 hours, providing long-term, consistent illumination. LED bulbs are not user-replaceable.
- **Fuse:** The unit contains a 1 amp fuse. If the light fails to power on, check the fuse. Fuse replacement should only be performed by qualified personnel.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, blown fuse.	Check power cord connection. Ensure outlet is functional. Check the dimmer control. If still no light, consult qualified personnel for fuse inspection.
Light is dim or flickers.	Dimmer setting too low, unstable power supply.	Adjust the dimmer control. Ensure a stable power source.

8. SPECIFICATIONS

- **Model:** ILL-LEDV-R483
- **Light Source:** 48 bright white Focused LED bulbs
- **Illumination Type:** Shadow-free cold illumination
- **Bulb Lifespan:** Approximately 10,000 hours
- **Power Input:** 110v / 220v AC auto switching
- **Fuse:** 1 amp
- **Intensity Control:** Adjustable dimmer
- **Mount Ring Compatibility:** Fits 36mm-61mm diameter mount rings
- **Dimensions:** 9" x 8" x 2" (approximate)
- **Manufacturer:** LW Scientific
- **Recommended Age:** 8 years and up

9. WARRANTY AND SUPPORT

Specific warranty information for the LW Scientific ILL-LEDV-R483 is not provided in this manual. For warranty details, technical support, or service inquiries, please contact LW Scientific directly or refer to their official website. Keep your purchase receipt for warranty claims.

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