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## NEEWER RF-550D

# Neewer RF-550D Macro LED Ring Flash User Manual

Model: RF-550D (10020025)

## 1. INTRODUCTION

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The Neewer RF-550D Macro LED Ring Flash is designed for close-up photography, scientific research, medical applications, and personal photography. It provides continuous and stable illumination or flash light to enhance image quality in macro environments. This manual provides detailed instructions for the proper setup, operation, and maintenance of your device.

## 2. SAFETY INFORMATION

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- Do not expose the device to water or moisture.
- Avoid direct eye exposure to the LED light.
- Use only the specified battery type (4 AA batteries).
- Keep out of reach of children.
- Do not attempt to disassemble or repair the unit yourself. Contact qualified service personnel.
- Ensure the device is securely mounted to prevent accidental drops.

## 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- Neewer RF-550D Macro LED Ring Flash (48 LEDs)
- Control Unit with LCD Display
- Power Adapter/Charger
- 8 x Adapter Rings (49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm)
- 4 x Flash Diffusers (White, Transparent, Blue, Yellow)

# LCD DISPLAY AND KEY DESCRIPTION



Image: All components of the Neewer RF-550D Macro LED Ring Flash, including the ring light, control unit, power adapter, and various adapter rings and diffusers.



Image: A set of eight black adapter rings, clearly labeled with sizes 49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, and 77mm, used to attach the ring flash to various camera lenses.

## 4. PRODUCT OVERVIEW

The control unit features an LCD display and several buttons for managing the flash and light functions.

# 4pcs Color Translucent Filters

Different color temperatures and lighting styles



BLUE 9000K

YELLOW 3000K

WHITE 5000K

TRANSPARENT 5500K



Image: A close-up view of the control unit's LCD screen and buttons. Labels indicate: Mode Switch Button (MODE), LED Light Steady On Button (LIGHT), Test Button (PILOT), Power Switch (ON/OFF), Brightness - and Brightness + controls.

## 5. SETUP

### 5.1. Installing Batteries

The control unit requires 4 AA batteries (not included). Open the battery compartment cover on the back of the control unit and insert the batteries, ensuring correct polarity (+/-). Close the cover securely.



Image: A diagram showing the correct insertion of four AA batteries into the battery compartment of the control unit. A note indicates that batteries are not included.

### 5.2. Attaching to Camera Lens

1. Select the appropriate adapter ring that matches your camera lens filter thread size (e.g., 49mm, 52mm, etc.).
2. Screw the selected adapter ring onto the front of your camera lens.
3. Align the Macro LED Ring Flash with the adapter ring. Press the two release buttons on the ring flash and rotate it clockwise until it locks securely onto the adapter ring.

## 4 LIGHT MODES



 Left-Flash Mode



 Right-Flash Mode



 Full-Flash Mode



 Full Light Steady-On

Image: A hand demonstrating how to attach the ring flash to a camera lens using an adapter ring. The ring flash is shown securely mounted on the lens.

### 5.3. Mounting the Control Unit

Slide the control unit onto your camera's hot shoe mount until it clicks into place. Ensure it is firmly seated.

## BEFORE USING



## AFTER USING (Brightness Adjustable)

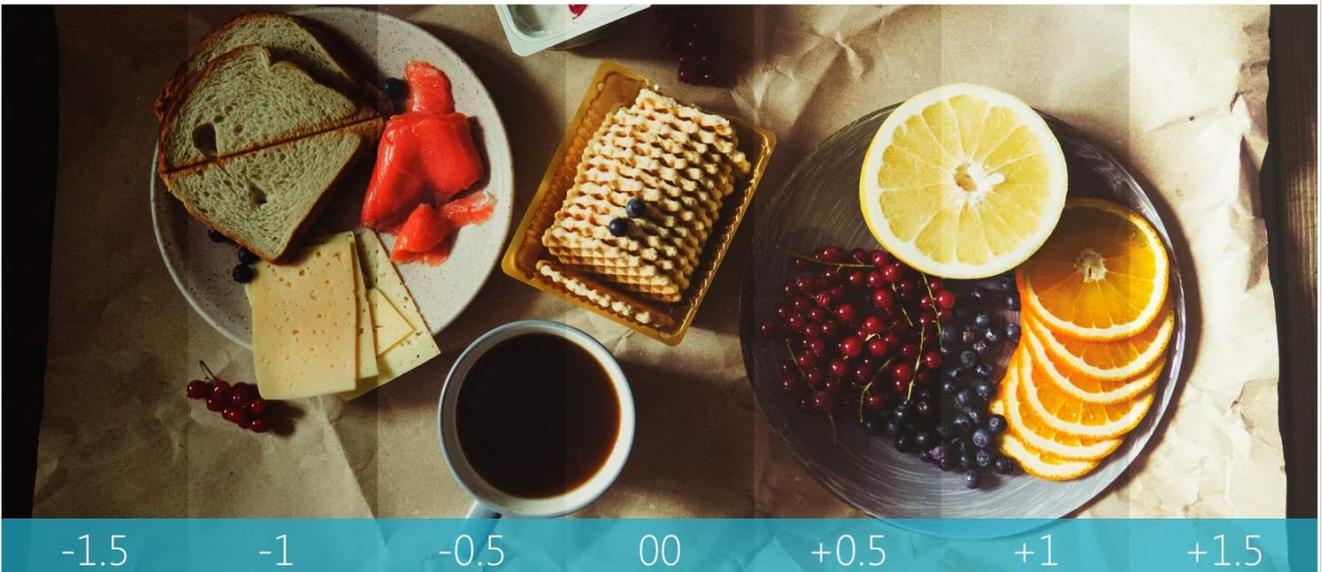


Image: The control unit of the ring flash is shown mounted on the hot shoe of a DSLR camera, connected to the ring light via a coiled cable.

## 6. OPERATION

### 6.1. Powering On/Off

Press and hold the **ON/OFF** button on the control unit for a few seconds to power the device on or off.

### 6.2. Selecting Modes

Press the **MODE** button to cycle through different lighting modes:

- **Full-Flash Mode:** All 48 LEDs flash simultaneously.
- **Left-Flash Mode:** Only the left half of the LEDs flash.
- **Right-Flash Mode:** Only the right half of the LEDs flash.
- **Full Light Steady-On Mode:** All 48 LEDs provide continuous light.



Image: A collage showing example photographs taken with the four light modes: Left-Flash Mode, Right-Flash Mode, Full-Flash Mode, and Full Light Steady-On Mode, illustrating their effects on subjects.

### 6.3. Adjusting Brightness

Use the **Brightness +** and **Brightness -** buttons to adjust the intensity of the light or flash. The LCD display will show the current brightness level.



Image: A comparison showing a scene before and after using the ring flash with adjustable brightness. The 'After Using' section displays a gradient from -1.5 to +1.5, indicating the range of brightness adjustment.

#### 6.4. Using Color Filters

The bundle includes four color diffusers (White, Transparent, Blue, Yellow) to modify the color temperature and lighting style of your photographs. Simply snap the desired filter onto the front of the LED ring flash.

# Compatible with DSLR Cameras

- Comes with 8 adapter rings fit for following hot shoe -



Compatible with for  
Canon Nikon Panasonic Olympus  
Pentax Fujifilm and Sony  
with Mi Hot Shoe cameras, like a9 a7 a7II  
a7III a7R III a7RII a7SII a6000 a6300 a6500  
(NOT compatible with Canon EOS Rebel  
SL3/250D, Rebel T7/1500D 2000D,  
Rebel T100/3000D 4000D)



49mm



52mm



55mm



58mm



62mm



67mm



72mm



77mm

Image: A display of four translucent color filters (Blue 9000K, Yellow 3000K, White 5000K, Transparent 5500K) and their corresponding effects on sample portraits, demonstrating different color temperatures and lighting styles.

## 7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the ring flash and control unit. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Lens Care:** Keep adapter rings and diffusers clean to ensure optimal light transmission.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flash does not fire.	Low or dead batteries; incorrect camera settings; loose connection.	Replace batteries; check camera flash settings; ensure control unit is securely mounted and cable is connected.

Problem	Possible Cause	Solution
Light is too dim/bright.	Brightness setting is incorrect.	Adjust brightness using the '+' and '-' buttons on the control unit.
Ring flash does not attach to lens.	Incorrect adapter ring size.	Ensure the correct adapter ring size is selected for your lens.

## 9. SPECIFICATIONS

Feature	Detail
Model	RF-550D (10020025)
LED Quantity	48 pieces
Compatible Mountings	Canon, Nikon (and other DSLR cameras with compatible lens thread sizes)
Flash Sync Speed	1/200 or 1/250 seconds
Connectivity Technology	Wired
Wireless Technology	Optical Pulse
Mount Type	On-camera hot shoe
Power Source	4 AA batteries (not included)
Adapter Ring Sizes	49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm
Item Weight	1.1 Pounds (approx. 0.5 kg)

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Neewer website. Keep your proof of purchase for any warranty claims.