NEEWER TL120C

NEEWER TL120C RGB Tube Light Instruction Manual

Model: TL120C

1. INTRODUCTION

The NEEWER TL120C RGB Tube Light is a versatile and powerful lighting solution designed for photography and videography. This instruction manual provides detailed guidance on the safe and effective use of your TL120C light, covering setup, operation, features, and maintenance.

Image: The NEEWER TL120C RGB Tube Light in use, demonstrating its extended length and color capabilities. The light features a 50-inch length, 42W power, 32 independently controllable pixels, and 2000 lux illuminance at 0.5 meters (5600K).

2. SAFETY INFORMATION

- Do not expose the light to water or high humidity.

- Avoid direct eye exposure to the light source.

- Do not disassemble or modify the product. Unauthorized modifications may void the warranty and pose safety risks.

- Keep the light away from flammable materials.

- Use only the specified power adapter for charging.

- Ensure proper ventilation during operation to prevent overheating.

- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- NEEWER TL120C RGB Tube Light

- Softbox (49.6" x 2" x 3" / 1260 x 50 x 75mm)

- Integrated Honeycomb Beehive Grid

- White Diffuser

- Power Adapter and Cable (assumed)

- Storage Bag (assumed)

4. PRODUCT OVERVIEW

The TL120C is a 50-inch (127cm) tube light featuring a robust design with integrated controls and mounting points. It includes a touch bar for quick color selection and physical buttons for mode navigation and adjustments.

Image: Detailed view of the TL120C's onboard control panel, including the touch bar for color selection and various control buttons. A lock icon indicates the touch bar can be locked to prevent accidental changes.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the TL120C using the provided power adapter. Connect the adapter to the DC 20V/5A input port on the light. The built-in 6000mAh battery takes approximately 120 minutes to fully charge.

5.2 Mounting

The TL120C features standard mounting points (e.g., 1/4"-20 threads) for attachment to light stands, tripods, or other grip equipment. Ensure the light is securely mounted before operation.

5.3 Attaching Accessories

The included softbox, honeycomb grid, and white diffuser are designed to modify the light output. Attach these accessories by sliding them onto the light stick until they are securely in place. The softbox and grid help to soften and direct the light, while the diffuser provides a more even spread.

ENHANCED CONTRAST
WITH HONEYCOMB GRID
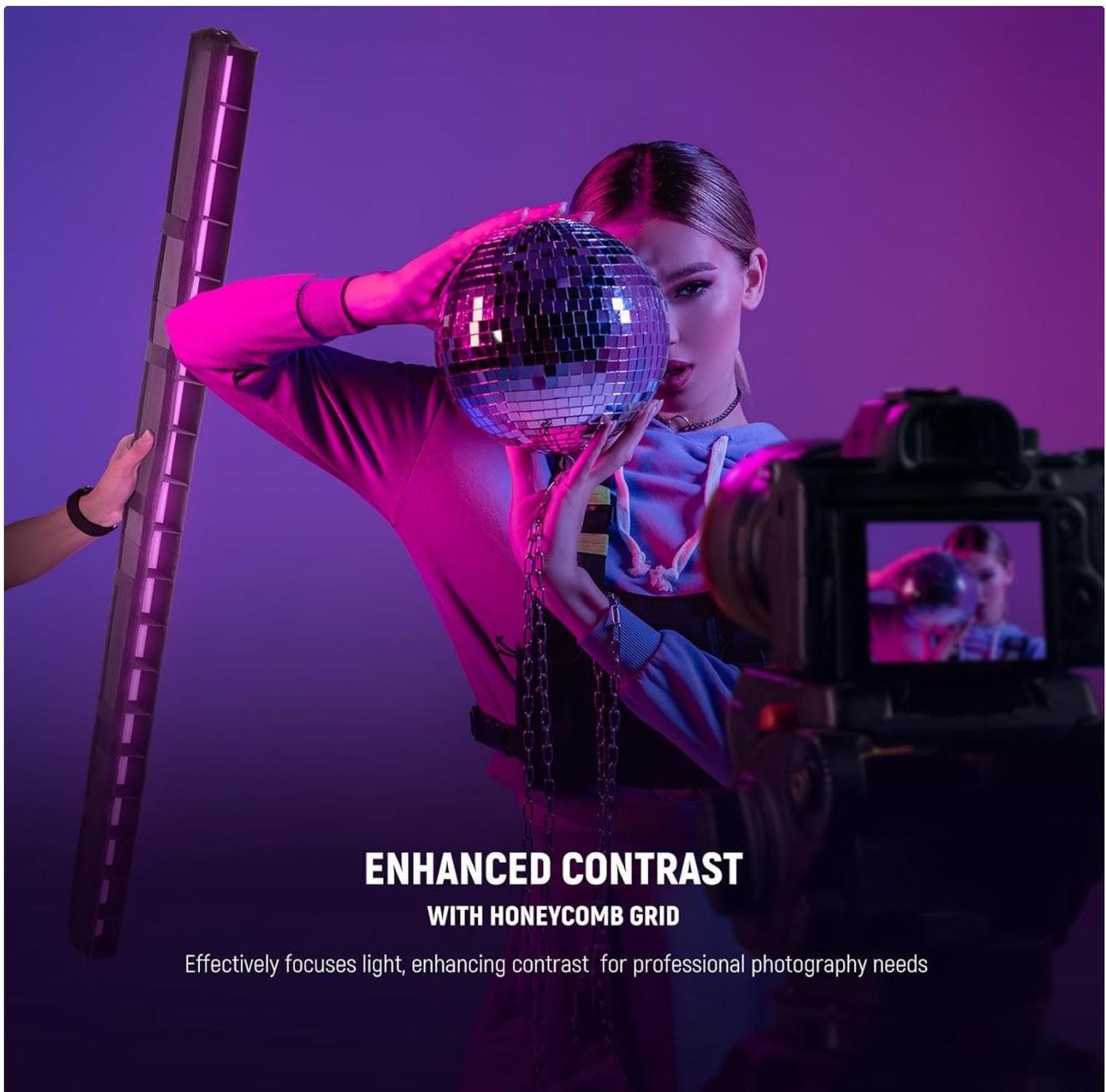Effectively focuses light, enhancing contrast for professional photography needs

Image: The TL120C light stick with its dedicated softbox, designed to create professional lighting effects by softening and shaping the light output.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press and hold the power button on the control panel to turn the light on or off.

6.2 Onboard Control

Use the physical buttons to navigate through menus and adjust parameters. The touch bar allows for quick and intuitive selection of colors in HSI or RGBCW modes. The touch bar can be locked to prevent accidental changes.

6.3 Light Modes

The TL120C offers several operating modes:

- **CCT Mode**: Adjust color temperature from 2500K (warm) to 10000K (cool) with Green/Magenta (GM) ±50 correction.
- **HSI Mode**: Access 36000 colors by adjusting Hue, Saturation, and Intensity.
- **RGBCW Mode**: Fine-tune colors by adjusting the ratio of Red, Green, Blue, Cool White, and Warm White components (0-255).
- **GEL Mode**: Select from 40 classic gel presets (20 RESCO, 20 LEE).

6.4 Dimming Control

The light supports 4 PWM dimming types (exponential, logarithmic, S-curve, linear) and X/Y axis dimming patterns for smooth and precise brightness adjustments.

6.5 Special Effects

The TL120C includes 7 pixel effects and 18 scene effects to enhance creative lighting scenarios.

- **7 Pixel Effects**: Color Replacement, Color Wheel Rotation, Single Color Movement, Dual Color Movement, Three Color Movement, Rainbow Color, Point Flame Control. These effects utilize the 32 independently controllable pixels.
- **18 Scene Effects**: Lightning, Paparazzi, Defective Bulb, Explosion, Welding, CCT Flash, Tone Flash, Tone Pulse, Color Pulse, Cop Car, Candlelight, CCT Loop, INT Loop, TV Screen, Fireworks, Party, Music. The Music Mode syncs light effects to audio rhythms.

Image: Visual representation of the 7 pixel effects and 18 scene lighting effects, including options like Lightning, Paparazzi, and Music Mode, designed to create dynamic lighting for various scenarios.

6.6 Control Methods

In addition to onboard controls, the TL120C can be controlled wirelessly:

- **NEEWER APP Control**: Download the NEEWER APP for iOS/Android devices. The app allows comprehensive control over all light functions, including brightness, color temperature, HSI, RGBCW, pixel effects, and scene effects. The proprietary Infinity Network Meshing technology enables simultaneous control of multiple TL120C lights or other compatible NEEWER lights.

- **2.4G Remote Control**: The light supports 2.4G wireless control for convenient remote operation.

- **DMX512 Control**: For professional setups, the TL120C can be integrated into DMX512 systems, allowing precise control over its 32 independently controllable pixels for complex light arrays.
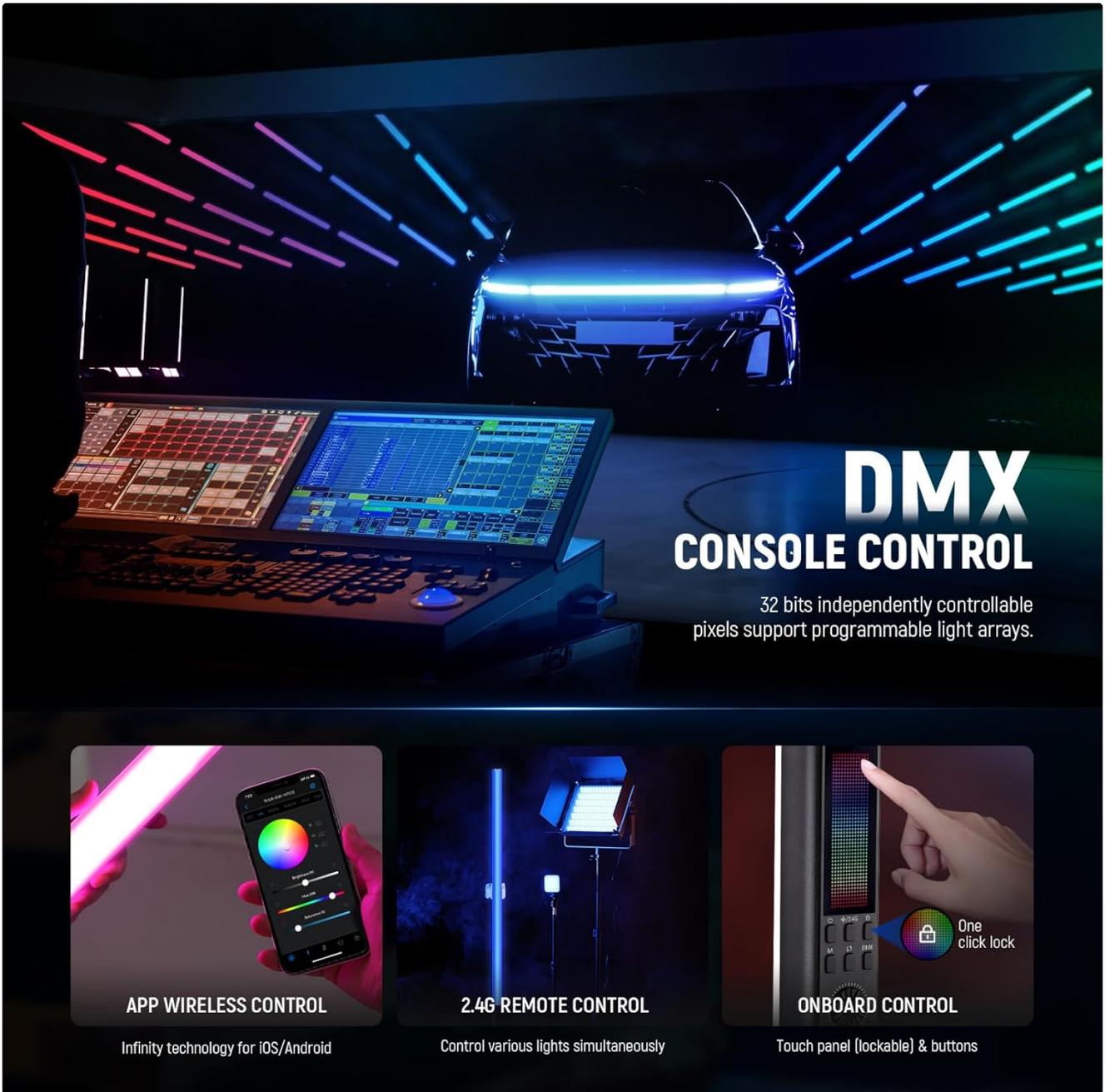
Image: An overview of the multiple control options for the TL120C, including DMX console integration, wireless control via the NEEWER app, 2.4G remote, and direct onboard controls.

Image: The NEEWER app interface demonstrating advanced control capabilities, including color selection, brightness adjustment, and various streaming effects for dynamic lighting setups.

7. BATTERY INFORMATION AND CHARGING

The TL120C is equipped with a built-in 6000mAh lithium battery, providing approximately 120 minutes of endurance at 100% brightness after a 120-minute charge. The light supports DC 20V/5A charging, allowing it to be powered while in use.

Image: Information on the TL120C's 6000mAh battery, showing a charging time of 120 minutes and an endurance of 120 minutes at 100% brightness, compared to an ordinary stick light.

8. SPECIFICATIONS

Model	TL120C
Length	50 inches (127 cm)
Power	42W (Maximum)
Illuminance	2000 lux @ 0.5m (5600K)
Color Temperature	2500K-10000K (GM ±50 correction)
CRI	97+
TLCI	98+
Pixels	32-bit Independently Controllable

Battery Capacity	6000mAh
Charging Time	Approx. 120 minutes
Endurance (100% Brightness)	Approx. 120 minutes
Control Methods	Onboard, 2.4G, NEEWER APP, DMX512
Connectivity Technology	2.4G system, 802.11 b/g/n (for APP)
Product Dimensions (Light Stick)	50"L x ~2"W x ~3"H (approximate cross-section)

9. MAINTENANCE

- **Cleaning**: Use a soft, dry cloth to clean the light. Do not use abrasive cleaners or solvents.
- **Storage**: Store the light in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, charge the battery to approximately 50% every three months to maintain battery health.
- **Battery Care**: Avoid fully discharging the battery frequently. Charge the battery regularly, even if not in active use.

10. TROUBLESHOOTING

10.1 Light Not Turning On

- Check if the battery is charged. Connect the light to the power adapter.
- Ensure the power button is pressed and held for a few seconds.

10.2 Light Not Charging

- Verify the power adapter is correctly connected to both the light and a working power outlet.
- Ensure the power adapter is the original or a compatible 20V/5A adapter.

10.3 Wireless Control Issues (APP/2.4G)

- Ensure the light is within range of the controlling device (phone or 2.4G remote).
- For APP control, verify Bluetooth/Wi-Fi is enabled on your device and the light is paired.
- Restart the light and the controlling device.
- Check for firmware updates for the light via the NEEWER APP.

10.4 Inconsistent Light Output

- Check battery level; low battery can affect performance.
- Ensure the light is not operating in an excessively hot environment, which could trigger thermal protection.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the warranty card included with your product or visit the official NEEWER website. Contact NEEWER customer service for assistance with any issues not covered in this manual.