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> [NEEWER PL60B Bi-Color LED Panel Video Light Instruction Manual](#)

NEEWER PL60B

NEEWER PL60B Bi-Color LED Panel Video Light

Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your NEEWER PL60B Bi-Color LED Panel Video Light. Please read this manual thoroughly before use and retain it for future reference. The PL60B is a high-power LED panel designed for various lighting applications in photography, videography, and streaming, offering adjustable color temperature and brightness.



The NEEWER PL60B LED Panel Video Light in a studio setting, highlighting its high power and bi-color capabilities.

WHAT'S IN THE BOX

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

- 1 x PL60B LED Panel Video Light
- 1 x Power Adapter
- 1 x AC Power Cord
- 2 x Safety Cable with Hooks

- 1 x Carrying Bag
- 1 x User Manual

PACKAGE CONTENTS



An illustration showing the NEEWER PL60B LED Panel Video Light and its included accessories: power adapter, AC power cord, safety cables, and carrying bag.

KEY FEATURES

- **60W High Power Bi-Color Output:** Features 640 LEDs, delivering up to 26600Lx/0.5m illuminance with a CRI of 96+ and TLCI over 97 for accurate color reproduction.
- **Adjustable Color Temperature:** Offers a wide color temperature range from 2500K to 8500K.
- **Precise Dimming:** Brightness adjustable from 0% to 100% in 0.1% increments, utilizing PWM technology with four dimming curves (Exponential, Logarithmic, S, Linear).
- **Multiple Lighting Modes:** Includes CCT (Color Correlated Temperature), FX (13 scene effects), and SOURCE (14 light source options).
- **Versatile Control Options:** Supports NEEWER APP, 2.4G wireless, on-panel controls, and 5-pin DMX for multi-light setups.

- **Efficient Cooling:** Equipped with a silent cooling fan with Smart, Medium, High, and Silent modes, ensuring optimal performance and longevity.
- **Flicker-Free Operation:** Smart FM mode adjusts output frequency to eliminate flicker during high-speed video capture.
- **Dual Power Options:** Can be powered by the included AC adapter or a V-mount battery (sold separately) for indoor and outdoor use.
- **360° Angle Adjustment:** Features a U-shaped bracket for flexible positioning.

60_w
BRIGHT OUTPUT

⚡ **60W**
Maximum Output

☀️ **26600lux / 0.5m**
Max Illuminance (5600K)

🌡️ **2500K-8500K**
Color Temperature



HIGH COLOR RENDERING INDEX

96+ / 97+
Ultra High CRI/TLCI



The PL60B LED Panel demonstrating its 60W bright output and high color rendering index (CRI) for accurate color reproduction.



An image illustrating the ultra-high CRI of the NEEWER PL60B, ensuring accurate and vibrant color representation in photos and videos.

SETUP

Powering the Light

The PL60B offers two power options:

1. **AC Power:** Connect the included 20V adapter and AC power cord to the DC port on the back of the light and then to a wall outlet. Ensure the DC port's locking design is engaged to prevent accidental disconnection.
2. **V-Mount Battery Power:** For outdoor or portable use, connect a 14.8-26V V-mount battery (sold separately) using a D-tap to 4-pin XLR cable (sold separately) to the appropriate port on the light.

Mounting the Light

The light can be mounted on a tripod or light stand using its U-shaped bracket. Adjust the angle as needed for your lighting setup.

DUAL POWER OPTIONS



INDOOR

Powered by the standard 20V adapter and power cable.



OUTDOOR

Powered by 14.8-26V V mount battery and D tap to 4 pin XLR cable (V mount battery and power cable sold separately).



An image illustrating the dual power options (AC and V-mount battery) for the NEEWER PL60B, along with the secure cable lock mechanism.

OPERATING INSTRUCTIONS

Control Methods

The PL60B offers four control methods:

- **On-Panel Control:** Use the physical buttons and dials on the light's TFT color display to adjust parameters directly.
- **NEEWER APP Control:** Download the NEEWER APP for wireless control and multi-light group management via your smartphone.
- **2.4G Wireless Control:** The built-in 2.4G module allows master-slave control with compatible NEEWER light models.
- **DMX Control:** A 5-pin DMX port enables connection to a DMX console for complex multi-light setups.



4 CONTROL MODES

**DMX
CONSOLE CONTROL**

For stage, studio, and other professional settings



APP

Unlock more hidden functions



2.4G

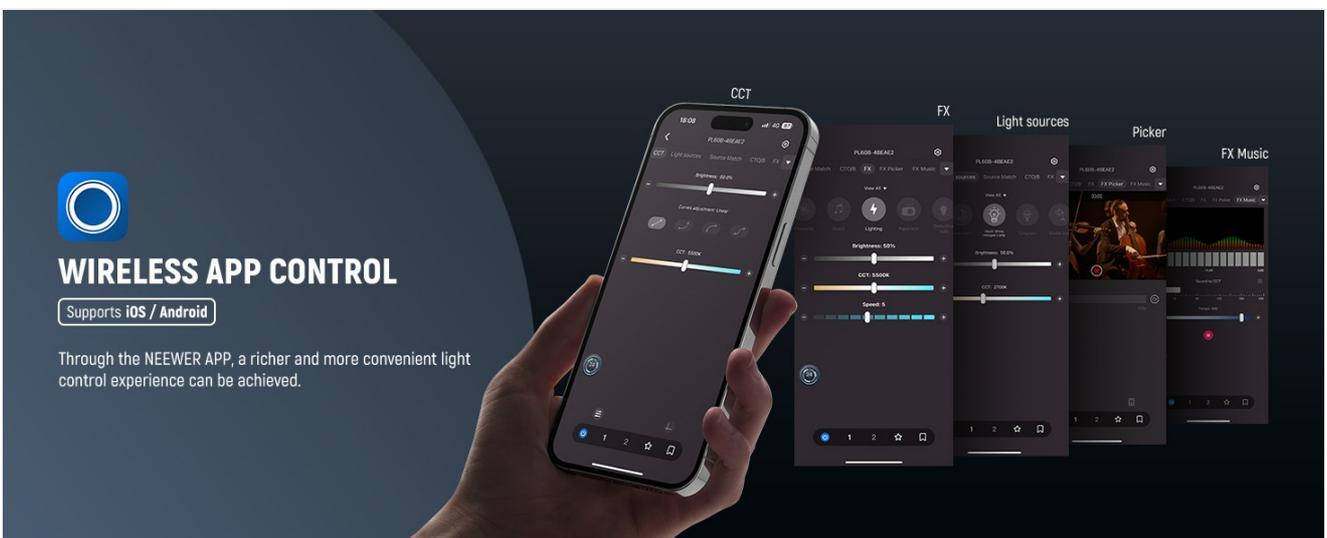
Mesh network with other lights for synchronized control.



PANEL

Use physical buttons and dials

An image showcasing the four control modes of the NEEWER PL60B: DMX console, mobile app, 2.4G wireless, and on-panel controls.



WIRELESS APP CONTROL

Supports iOS / Android

Through the NEEWER APP, a richer and more convenient light control experience can be achieved.

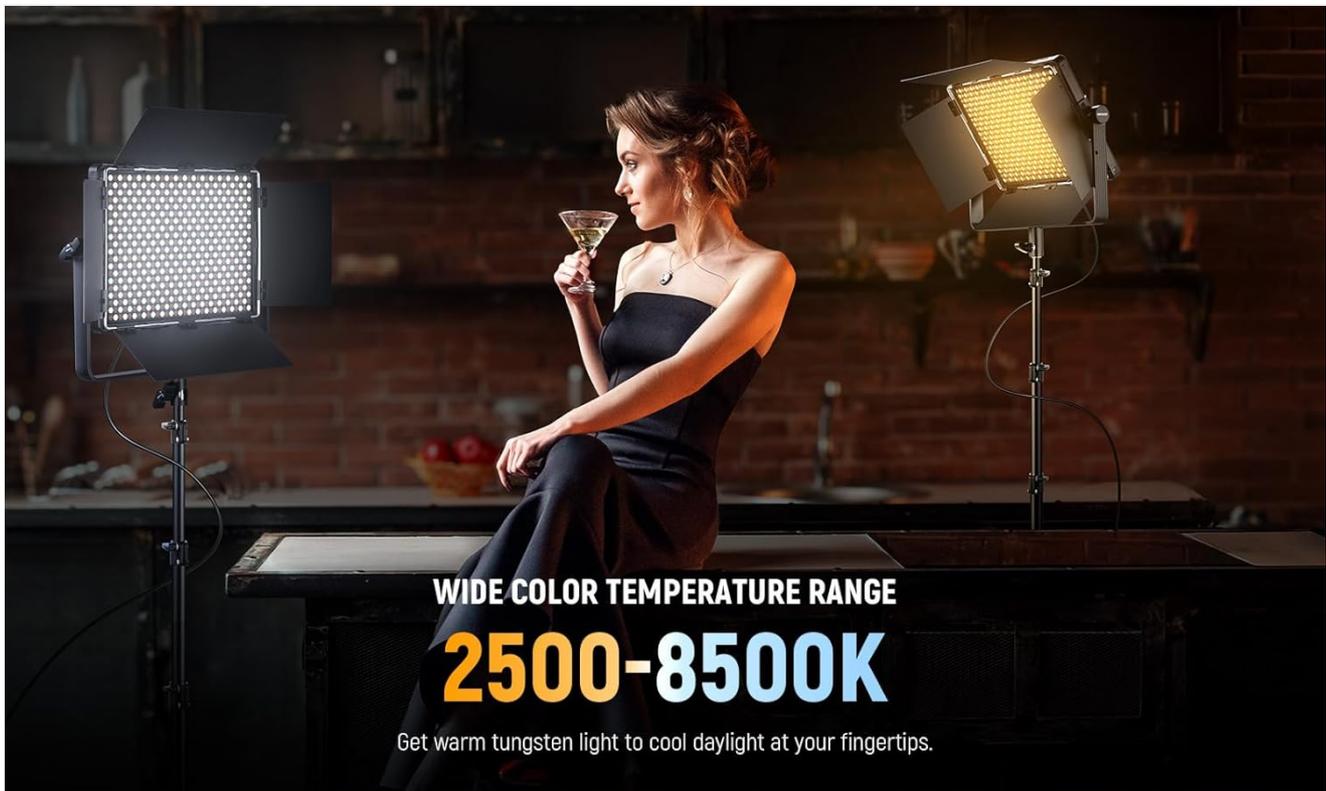
A visual representation of the NEEWER APP interface for wireless control of the PL60B LED Panel, showing various settings and modes.

Lighting Modes and Adjustments

The light offers three primary lighting modes:

- **CCT Mode:** Adjust color temperature from 2500K (warm) to 8500K (cool) and brightness from 0% to 100%.
- **FX Mode:** Select from 13 built-in scene effects for creative lighting scenarios.
- **SOURCE Mode:** Choose from 14 light source options to match various ambient lighting conditions.

Use the control dials to navigate menus and adjust values. The TFT display provides intuitive parameter feedback.



WIDE COLOR TEMPERATURE RANGE
2500-8500K
Get warm tungsten light to cool daylight at your fingertips.

13 SCENE EFFECTS

 Music Sync	 Paparazzi	 Defective Bulb	 Explosion	
 Welding	 CCT Flash	 CCT Pulse	 Candlelight	
 CCT Loop	 INT Loop	 TV Screen	 Fireworks	 Lightning

14 LIGHT SOURCES

 Dawn 5000K	 Daytime 5500K	 Daylight 6500K	 Cloudy 7000K	
 Moonlight 8000K	 Blue Sky 10000K	 Incandescent Lamp 3200K	 Video Lamp 3300K	 Modeling Lamp 3400K
 5600 Dy Sprosimium Lamp 5600K	 Daylight Dysprosimium Lamp 6000K	 Warm White Halogen Lamp 2700K	 White Halogen Lamp 4500K	 Xenon Short Arc Lamp 6200K

The NEEWER PL60B demonstrating its wide color temperature range (2500K-8500K), 13 scene effects, and 14 light source options.

0-100%

Dimming Range

0.1%

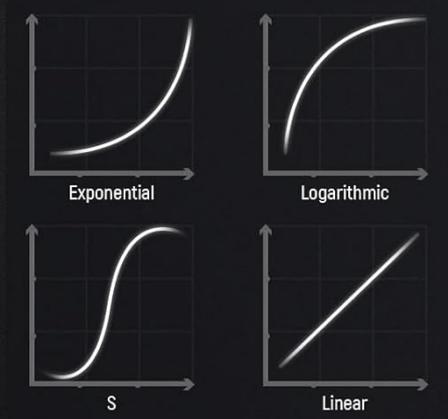
Increment

0.1% FINE DIMMING

With PWM technology, PL60B has 1/1000 level dimming capability, which can achieve fine dimming in 0.1% increments within the brightness range of 0-100%.



4 DIMMING CURVES



An image detailing the 0-100% dimming range of the NEEWER PL60B with 0.1% increments and illustrating the four available dimming curves.

Angle Adjustment

The U-shaped bracket allows for 360° flexible angle adjustment. Loosen the locking knobs on the sides of the bracket, position the light as desired, and then tighten the knobs to secure it.

MAINTENANCE

Cleaning

Wipe the light panel and body with a soft, dry cloth. Do not use abrasive cleaners or solvents.

Cooling System

The integrated silent cooling fan helps maintain optimal performance. Ensure the fan vents are not obstructed during operation. The fan features Smart, Medium, High, and Silent modes, allowing you to choose the appropriate cooling level for your environment.



The NEEWER PL60B highlighting its silent cooling fan with four modes and the 360-degree angle adjustment feature provided by its U-shaped bracket.

TROUBLESHOOTING

- **Light not turning on:** Check power connections (AC adapter or V-mount battery). Ensure the power switch is in the 'ON' position.
- **Flickering light:** Activate the Smart FM mode to adjust the light's output frequency, which helps eliminate flicker during high-speed video recording.
- **Control issues:** If using the APP or 2.4G control, ensure the light and control device are properly paired and within range. Check battery levels of both devices.
- **Overheating:** Ensure fan vents are clear and the fan mode is set appropriately for the operating conditions.

SPECIFICATIONS

Product Model	PL60B
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LED Quantity	640 PCS
Output Power	60W
CRI	CRI 96+, TLCI 97+
Maximum Illumination	26600Lx/0.5m (5600K)
Color Temperature	2500K-8500K
Brightness Adjustment	0-100% (0.1% increments)
Scene Effects	13
Light Source Matching	14
Power Supply Method	Adapter power supply 20V, V-port battery power supply 14.8-26V
Lighting Angle	45°
Control Method	APP, 2.4G, Panel, DMX control
Lamp Body Size	15" x 13.5" x 3.4" / 38 x 34.2 x 8.6cm
Lamp Body Weight	5.3lb / 2.4kg

SPECIFICATIONS

Product model	PL60B	Scene effects	13
LED quantity	640PCS	Light source matching	14
Output power	60W	Power supply method	Adapter power supply 20V V port battery power supply 14.8-26V
CRI	CRI 96+, TLCI 97+	Lighting angle	45°
Maximum illumination	26600Lux/0.5m (5600K)	Control method	APP, 2.4G, panel, DMX control
Color temperature	2500K-10000K (100K increments)	Lamp body size	15"×13.5"×3.4"/38×34.2×8.6cm
Brightness adjustment	0-100% (0.1% increments)	Lamp body weight	5.3lb/2.4kg



A detailed table outlining the technical specifications of the NEEWER PL60B LED Panel Video Light.

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official NEEWER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.