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> NEEWER AP150C 150W RGB LED Panel Video Light Instruction Manual

NEEWER AP150C

NEEWER AP150C 150W RGB LED Panel Video Light Instruction Manual

Model: AP150C

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your NEEWER AP150C 150W RGB LED Panel Video Light. Please read this manual thoroughly before use and retain it for future reference.

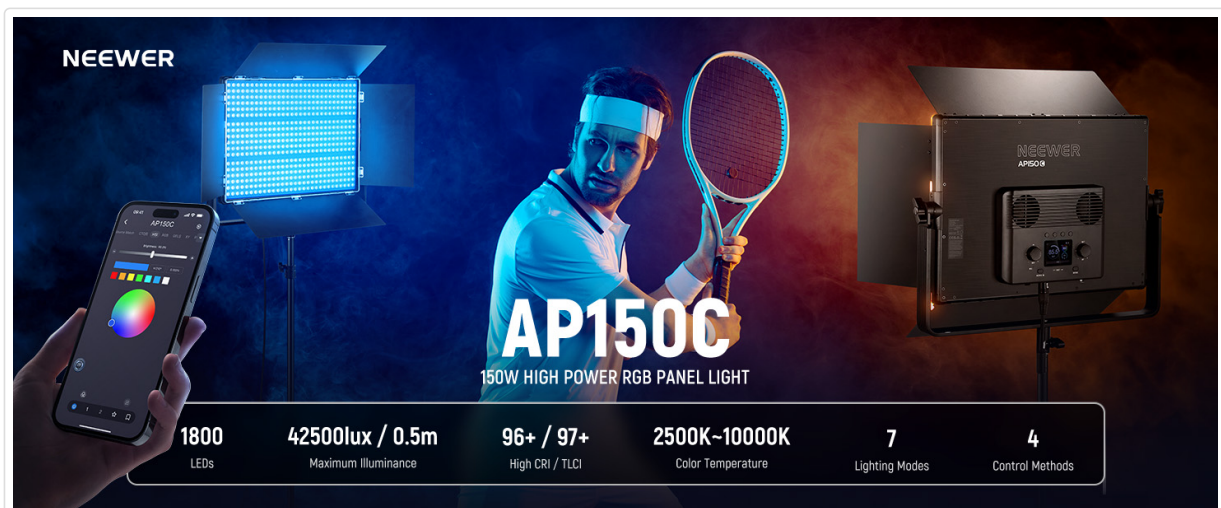


Image 1.1: NEEWER AP150C LED Panel Video Light Overview.

2. SAFETY INFORMATION

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

- Avoid direct eye exposure to the LED light.
- Ensure proper ventilation to prevent overheating.
- Use only the specified power adapter and cables.
- Keep out of reach of children.
- Disconnect power before cleaning or maintenance.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x AP150C LED Panel Video Light
- 1 x Power Adapter
- 1 x Power Cord
- 2 x Hook Piece
- 1 x Storage Bag



Image 3.1: Included Package Contents.

4. PRODUCT FEATURES

- **Advanced LED Optical Design:** Features a TIR lens module for strong light transmittance and improved lighting effect.
- **High Output:** 150W power with 1800 LEDs, delivering up to 42500Lux/0.5m.
- **Accurate Color Reproduction:** CRI 96+ and TLCI 97+ for true color rendering.
- **Wide Color Temperature Range:** Adjustable from 2500K to 10000K.
- **Versatile Lighting Modes:** Includes CCT, HSI, RGBCW, GEL, FX (18 scene effects), XY, and SOURCE (17 light source matches).
- **Precise Dimming:** 0-100% dimming with 0.1% increments and 4 dimming curves (Exponential, Logarithmic, S, Linear).
- **Multiple Control Methods:** NEEWER APP, 2.4G wireless, on-panel controls, and 5-pin DMX.
- **Dual Power Options:** AC power via included adapter or V-mount battery (sold separately).
- **Silent Cooling System:** Features Smart, Medium, High, and Silent fan modes to maintain performance and reduce noise.
- **Flicker-Free Operation:** Smart FM mode adjusts output frequency for high-speed captures.
- **360° Angle Adjustment:** U-shaped bracket with safety rope for flexible positioning.



Image 4.1: Upgraded LED Design with TIR Lens Module.

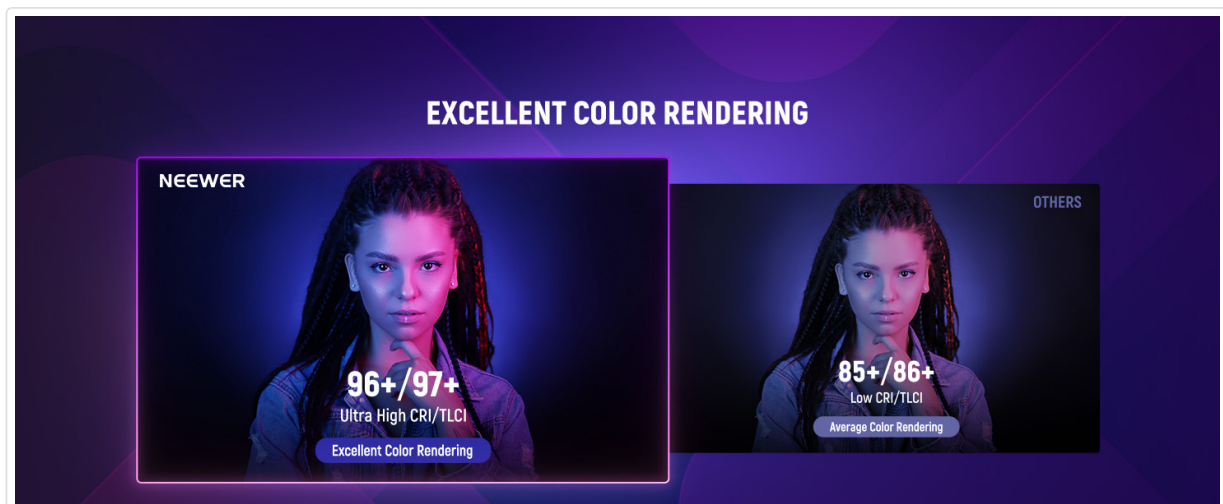


Image 4.2: High Color Rendering Index (CRI/TLCI).

5. SETUP

1. **Unpack the Light:** Carefully remove the AP150C LED panel and all accessories from the packaging.
2. **Mounting:** Attach the light to a compatible light stand using its U-shaped bracket. Ensure the safety rope is secured. The bracket allows for 360° rotation for flexible angle adjustment.
3. **Attach Barn Doors:** If not already attached, slide the barn doors onto the front of the light panel. These can be used to shape the light output.
4. **Power Connection:**
 - **AC Power:** Connect the included power adapter to the DC input port on the light. Secure the locking design to prevent accidental disconnection. Plug the power cord into the adapter and then into a suitable AC outlet.
 - **V-Mount Battery (Optional):** For outdoor use, connect a 14.8-26V V-mount battery (sold separately) to the light using a D-tap to 4-pin cable (sold separately).

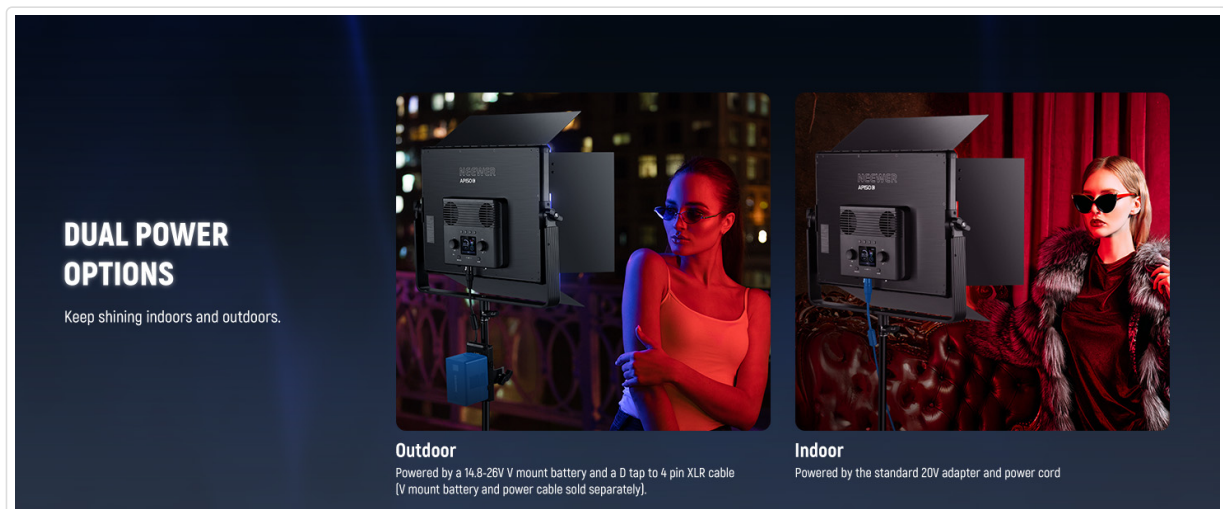


Image 5.1: Dual Power Options.



Image 5.2: Silent Cooling Fan and 360° Angle Adjustment.

6. OPERATING INSTRUCTIONS

6.1. Control Methods

The AP150C offers four methods for control:

- **Panel Control:** Use the physical buttons and dials on the light's control panel. The color display shows intuitive parameters.
- **NEEWER APP Control:** Download the NEEWER APP for wireless control and multi-light group management via Bluetooth.
- **2.4G Wireless Control:** The built-in 2.4G module enables master-slave control with compatible NEEWER light models (e.g., SL90 PRO, RGB1, RGB1200, MS60C, MS60B, MS150B, FS150B, BH30S, CB60B).
- **DMX Control:** A 5-pin DMX port allows connection to a DMX console for complex multi-light setups.



4 CONTROL MODES

DMX CONSOLE CONTROL

Meet the professional lighting control needs of stage, studio, etc.



APP

Unlock more hidden functions



2.4G

Mesh network with other lights
for synchronized control.



PANEL

Use physical buttons and dials

Image 6.1: Overview of 4 Control Modes.

6.2. Lighting Modes and Effects

The AP150C provides 7 lighting modes and various effects:

- **CCT Mode:** Color Temperature Adjustment (2500K-10000K).
- **HSI Mode:** 360° Hue, Saturation, and Intensity adjustment.
- **RGBCW Mode:** Direct control over Red, Green, Blue, Cool White, and Warm White LEDs.
- **GEL Mode:** 48 color presets.
- **FX Mode:** 18 scene effects including Music Sync, Paparazzi, Explosion, Welding, CCT Flash, Color Flash, CCT Pulse, Color Pulse, Cop Car, Candleligh, CCT Loop, INT Loop, TV Screen, Fireworks, Party, Lightning.
- **XY Mode:** Accurate adjustment of color coordinates.
- **SOURCE Mode:** 17 light source matches (e.g., Sunrise/Sunset, Candleligh, Dawn, Daylight, Cloudy, Moonlight, Blue Sky, Incandescent Lamp, Modeling Lamp, Sodium Vapor, Warm White, Xenon, Short Arc Lamp).

7 LIGHT MODES

RGBWW light mixing technology covers 90% of Rec.2020 color space and delivers 7 light modes.

CCT Color Temperature Adjustment	HSI 360° Tone Angle	RGBCW 5 Chromaticity Adjustment	GEL 40 Color Presets	XY Accurate Adjustment	FX 18 Scene Effects	SOURCE 17 Light Source Matching
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18 SCENE EFFECTS					17 LIGHT SOURCES				
Music Sync	Paparazzi	Defective Bulb	Explosion	Welding	Sunrise/Sunset 1800K	Candlelight 1900K	Dawn 5000K	Daytime 5500K	Daylight 6500K
CCT Flash	Color Flash	CCT Pulse	Color Pulse	Cop Car	Cloudy 7000K	Moonlight 8000K	Blue Sky 10000K	Incandescent Lamp 3200K	Video Lamp 3300K
Candlelight	Color Loop	CCT Loop	INT Loop	TV Screen	Modelling Lamp 3400K	5600 Dy Sprostrum Lamp 5500K	Daylight Dysprostrum Lamp 6000K	Sodium Vapor Lamp 2200K	Warm White Halogen Lamp 2700K
Fireworks	Party	Lightning			White Halogen Lamp 4300K	Xenon Short Arc Lamp 6200K			

Image 6.2: 7 Lighting Modes, 18 Scene Effects, and 17 Light Sources.

6.3. Dimming

The AP150C utilizes PWM technology for precise dimming. Brightness can be adjusted from 0-100% in 0.1% increments. Four dimming curves are available to suit different lighting requirements:

- Exponential
- Logarithmic
- S-curve
- Linear



Image 6.3: Fine Dimming and Dimming Curves.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the light panel and housing. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the light in its provided storage bag in a cool, dry place away from direct sunlight.
- **Fan Maintenance:** Ensure the cooling fan vents are clear of dust and obstructions for optimal performance.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light does not turn on	No power supply; loose connection; faulty adapter/battery	Check power cord and adapter connection. Ensure battery is charged if using V-mount. Try a different power source.
Light output is inconsistent or flickering	Power fluctuation; incorrect settings; overheating	Ensure stable power. Check selected lighting mode and dimming curve. Verify fan is operating correctly.
Remote control (APP/2.4G) not working	Bluetooth/2.4G not enabled; incorrect pairing; interference	Ensure Bluetooth is on for APP control. Re-pair devices. Check for obstructions or other 2.4G devices causing interference.
Light is overheating	Blocked fan vents; fan malfunction; prolonged use at high intensity	Clear fan vents. Check fan operation. Reduce brightness or allow light to cool down.

If the problem persists after attempting these solutions, please contact NEEWER customer support.

9. SPECIFICATIONS

Feature	Detail
Product Model	AP150C
LED Quantity	1800 PCS
Output Power	150W
CRI	CRI 96+, TLCI 97+
Maximum Illumination	42500 Lux/0.5m, 16400 Lux/1m
Color Temperature	2500K-10000K (100K increments)
Brightness Adjustment	0-100% (0.1% increments)
Hue Adjustment	0-360°
Saturation	0-100%
GM Value	-50~+50
Scene Effects	18
Light Source Matching	17
R/G/B/C/W	0-255
Color Paper	RESCO (20 color patches), LEE (20 color patches)

Feature	Detail
XY	0.0000-0.8000
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	20.6"×16.9"×3.4" / 52.3×43×8.6cm
Lamp Body Weight	10.1lb / 4.6kg

SPECIFICATIONS

Product model	API50C	Scene effects	18
LED quantity	1800PCS	Light source matching	17
Output power	150W	R/G/B/C/W	0-255
CRI	CRI 96+, TLCI 97+	Color paper	RESCO (20 color patches), LEE (20 color patches)
Maximum illumination	42500Lux/0.5m, 14000Lux/1m	XY	0.0000-0.8000
Color temperature	2500K-10000K (100K increments)	Power supply method	Adapter power supply 20V V port battery power supply 14.8-26V
Brightness adjustment	0-100% (0.1% increments)	Lighting angle	45°
Hue adjustment	0-360°	Control method	APP, 2.4G, panel, DMX control
Saturation	0-100%	Lamp body size	20.6"×16.9"×3.4"/52.3×43×8.6cm
GM Value	-50~+50	Lamp body weight	10.1lb/4.6kg



Image 9.1: NEEWER AP150C Technical Specifications.

10. WARRANTY AND SUPPORT

NEEWER products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official NEEWER website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or service inquiries, please contact NEEWER customer support through their official channels. Contact information can usually be found on the NEEWER website or in your product packaging.