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› NEEWER CB 300C RGB LED Video Light User Manual

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Model: CB 300C

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your NEEWER CB 300C RGB LED Video Light. Please read this manual thoroughly before use and retain it for future reference. The NEEWER CB 300C is a powerful 300W COB LED light designed for professional photography and videography, offering a wide range of color temperatures, full RGB capabilities, and various special effects, controllable via an intuitive panel, mobile application, or 2.4G wireless system.

2. SAFETY INFORMATION

To prevent damage to the product or injury to yourself or others, please observe the following safety precautions:

- Do not expose the light to water or moisture. This product is **not water resistant**.
- Do not look directly into the light source when it is on.
- Ensure the power supply is compatible with the light's requirements before connecting.
- Keep the light away from flammable materials.
- Do not attempt to disassemble or modify the light. Repairs should only be performed by qualified personnel.
- Ensure proper ventilation during operation to prevent overheating.
- Always secure the light properly on a stable stand or mounting point.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- NEEWER CB 300C RGB LED Video Light

- Standard Reflector
- 71"/180cm Black/White Parabolic Reflective Umbrella
- Detachable Soft Light Diffuser
- Power Cable
- Carrying Bag (for umbrella)



Image: Overview of the NEEWER CB 300C RGB LED Video Light and its main accessories, including the light unit, reflector, parabolic umbrella, and a smartphone displaying the control app interface.

4. SETUP

4.1 Assembling the Light

1. Attach the CB 300C light unit to a compatible light stand using its mounting bracket. Ensure it is securely tightened.
2. Connect the power cable to the light's power input and then to a suitable power outlet.

4.2 Attaching Accessories

1. **Standard Reflector:** Align the reflector with the Bowens mount on the front of the light. Insert and twist clockwise until it locks into place.
2. **Parabolic Reflective Umbrella:** Insert the umbrella shaft into the umbrella holder on the light fixture. Adjust its depth for desired light spread.
3. **Detachable Soft Light Diffuser:** This diffuser attaches to the parabolic umbrella using touch fasteners to soften the light output.



PARABOLIC REFLECTIVE UMBRELLA

71in / 180cm

The black/white parabolic reflective umbrella softbox provides a softer and evenly diffused light, and preserves more faithful color rendition than the black/silver ones.

Image: The NEEWER CB 300C light unit mounted on a stand with the 71-inch parabolic reflective umbrella fully opened and attached, illustrating a typical setup for soft, diffused lighting.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Basic Adjustments

1. Press the power button on the control panel to turn the light on. The color display will illuminate.
2. Use the control knobs and buttons on the panel to adjust settings.
3. **Brightness (DIM):** Rotate the corresponding knob to adjust brightness from 0% to 100%.
4. **Color Temperature (CCT):** Rotate the CCT knob to change the color temperature from 2500K (warm) to 7500K (cool).

300W HIGH BRIGHTNESS OUTPUT

Easily illuminates large areas while maintaining uniform brightness with no spots.

Mixed Light Chamber Structure

COB Integrated Lamp Beads



300W
High Power



13700Lux/1m 5600K

Bare Light >



29600lux/1m 5600K

with standard reflector >



65300Lux/1m 5600K

with high brightness reflector (purchased separately) >



Image: Detailed view of the NEEWER CB 300C's COB light source, highlighting its 300W high brightness output. The image also shows comparative light intensity (Lux at 1m) for bare light, with standard reflector, and with a high brightness reflector.

WIDE COLOR TEMPERATURE CREATING VARIOUS ATMOSPHERES

DUV value (color coordinate deviation value)
can be controlled within the accuracy of ± 0.001 .

CCT 2500K - 7500K
Color Temperature

GM ± 50
GM Compensation



NO COLOR CAST

ensuring accurate texture representation

97+ CRI
Color rendering index CRI average

97+ TLCI
TV lighting consistency index TLCI average

Image: Illustration of the NEEWER CB 300C's wide color temperature range (2500K-7500K) and GM compensation. It also emphasizes the high CRI 97+ and TLCI 97+ ratings, ensuring accurate color reproduction, with a visual comparison of CRI 97+ vs CRI 85+.

5.2 Advanced Color Modes

The CB 300C offers versatile color control:

- **HSI Mode:** Adjust Hue (0-360°), Saturation (0-100%), and Intensity (0-100%) for precise color selection.
- **RGBCW Mode:** Directly control Red, Green, Blue, Cold White, and Warm White channels for custom color mixing.
- **GEL Mode:** Select from a library of pre-set gel colors (e.g., RESCO [20], LEE [20]) for quick color changes.

SWITCH BETWEEN MULTIPLE MODES AT WILL

 **HSI Mode**
360° Full Angle

 **RGBCW Mode**
0-255 Range Customization

 **GEL Mode**
RESCO [20], LEE [20]

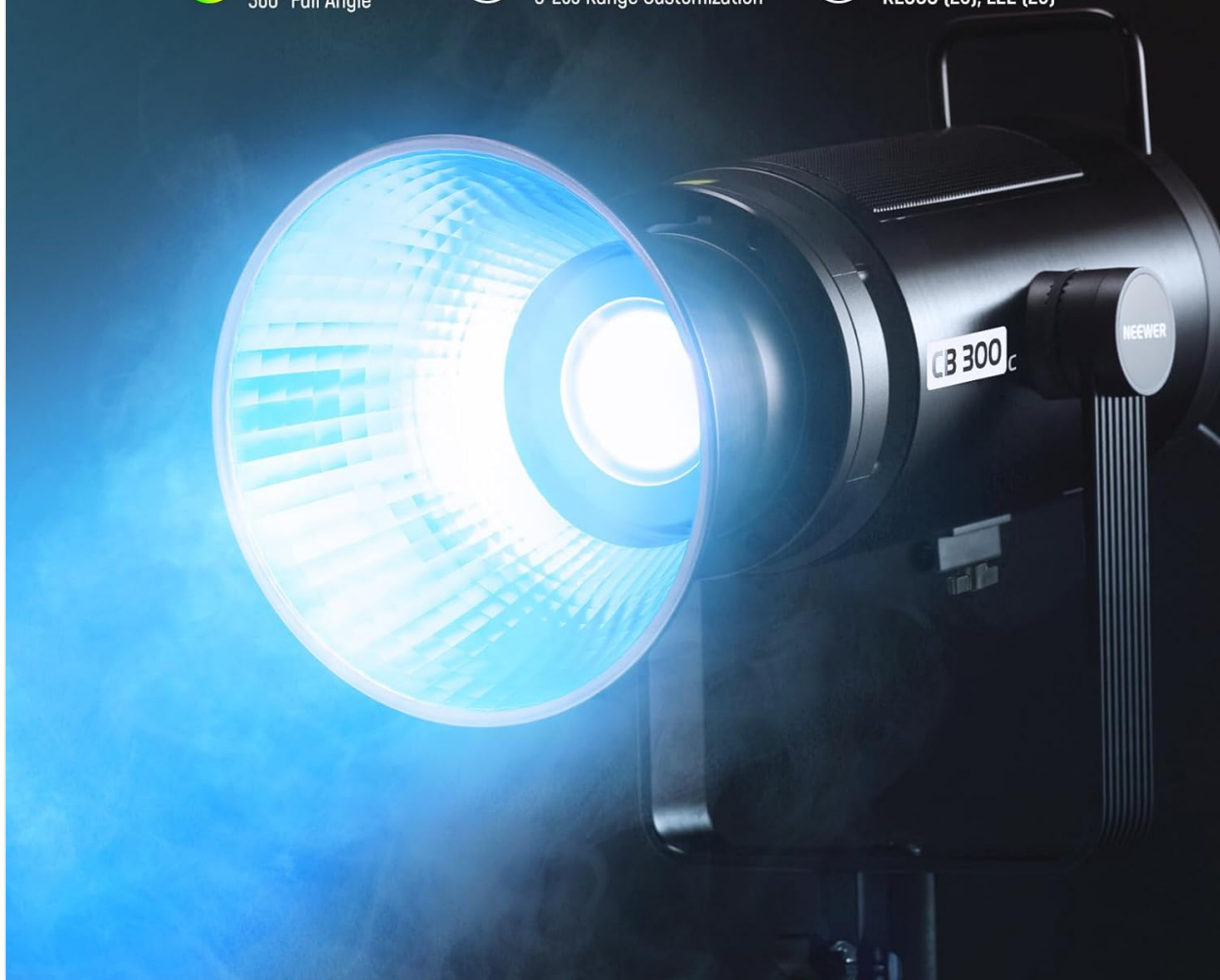


Image: The NEEWER CB 300C light head emitting a blue light, illustrating the ability to switch between HSI Mode (360° Full Angle), RGBCW Mode (0-255 Range Customization), and GEL Mode (RESCO [20], LEE [20]) for diverse lighting effects.



Image: A dancer illuminated by the NEEWER CB 300C, showcasing its color COB light source. The image emphasizes the RGBWW Light Combination Technology, covering over 90% of the Rec.2020 color space, and offering 36,000+ full colors for brilliant colored light.

5.3 Special Scene Modes

The light features 17 built-in special scene modes to simulate various real-world lighting scenarios:

- Lightning
- Paparazzi
- Defective Bulb
- Explosion
- Welding
- CCT Flash
- Color Flash
- CCT Pulse
- Color Pulse
- Police Car
- Candlelight

- Color Loop
- CCT Loop
- INT Loop
- TV Screen
- Fireworks
- Party




Image: A visual display of the 17 FX Scene Lighting Modes available on the NEEWER CB 300C, including icons for Lightning, Paparazzi, Defective Bulb, Explosion, Welding, CCT Flash, Color Flash, CCT Pulse, Color Pulse, Police Car, Candlelight, Color Loop, CCT Loop, INT Loop, TV Screen, Fireworks, and Party. More customization is available via the NEEWER APP.

5.4 Control Methods

The CB 300C can be controlled via its onboard panel, a mobile application, or a 2.4G wireless system:

- **Panel Control:** Use the clear color screen and function buttons directly on the light for real-time adjustments.
- **NEEWER APP Lighting Control:** Download the NEEWER APP to your smartphone. Use the infinity technology to control up to 256 lights simultaneously within 49.2ft (15m). The app allows for refined wireless group control.

- **Built-in 2.4G Wireless Control:** The light features a built-in 2.4G system with 99 channels. Multiple lights can be set to the same channel for group management within 66ft (20m). Any light can act as a remote to synchronize changes across others.



INTELLIGENT CONTROL
Efficient Light Control

Reset Bluetooth/2.4G switch
Long press for 5s

Bluetooth/2.4G switch
Long press for 2s

49.2ft/15m
Control Distance

66ft/20m
Control Distance

Panel Control
Clear color screen, complete function buttons

NEEWER APP Lighting Control
Achieve refined wireless group control

Built in 2.4G Wireless Control
Connect with other compatible lights featuring the NEEWER 2.4G function

Image: A visual guide to the intelligent control options for the NEEWER CB 300C. It depicts the light's control panel with clear screen and function buttons, a smartphone screen showing the NEEWER APP for wireless control (up to 49.2ft/15m), and an illustration of 2.4G wireless control for connecting with compatible lights (up to 66ft/20m).

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the light body. For the reflector and diffuser, use a slightly damp cloth if necessary, then dry thoroughly. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the light and its accessories in a cool, dry place, away from direct sunlight and excessive humidity. Use the provided carrying bag for the umbrella for protection.
- **Inspection:** Regularly check cables and connections for any signs of wear or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty power cable.	Ensure power cable is securely connected and outlet is functional. Try a different power outlet or cable.
Light flickers or dims unexpectedly.	Unstable power supply, overheating, faulty unit.	Check power source stability. Ensure adequate ventilation. If problem persists, contact support.
APP control not working.	Bluetooth/2.4G not enabled, app not connected, interference.	Ensure Bluetooth is enabled on your device and the light. Reset Bluetooth/2.4G switch on the light (long press for 5s). Re-pair the device with the app. Reduce distance or interference.
2.4G wireless control issues.	Incorrect channel setting, out of range, interference.	Verify all lights are on the same channel. Ensure lights are within 66ft (20m) range. Change channels to avoid interference.

8. SPECIFICATIONS

Feature	Detail
Model	CB 300C
Power Output	300W
Illumination (with reflector)	Up to 29600Lux@1m
Color Temperature Range	2500K-7500K
Dimming Range	0-100% (flicker-free)
Color Rendering Index (CRI)	97+
Television Lighting Consistency Index (TLCI)	97+
Color Modes	HSI, RGBCW, GEL
Special Scene Modes	17 built-in modes
Control Methods	Onboard Panel, NEEWER APP (Bluetooth), 2.4G Wireless
APP Control Distance	Up to 49.2ft (15m)
2.4G Control Distance	Up to 66ft (20m)
Umbrella Size	71"/180cm Parabolic Reflective Umbrella
Water Resistance Level	Not Water Resistant
ASIN	B0F4QRFYY4

9. CONTACT AND SUPPORT

For technical support, warranty information, or service inquiries, please visit the official NEEWER website or contact their customer service directly.

Visit the NEEWER Store on Amazon