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COLBOR CL60R

COLBOR CL60R RGB COB Video Light Instruction Manual

Model: CL60R

1. Introduction

The COLBOR CL60R is a 65W RGB COB continuous output video light designed for photography and videography. It features a wide CCT range of 2700K to 6500K, full color adjustment with adjustable saturation and hue, and a high color rendering index (CRI97+, TLCI98+). The light includes 13 built-in lighting effects and can be controlled via an APP or on-device controls. Its compact aluminum construction and unique PowerCube design allow for versatile use and expandability.

2. What's in the Box

- CL60R Video Light x1
- Standard Adapter (Bowens Mount) x1
- Bowens Mount Reflector x1
- Quick-Mount Holder x1
- COB Protective Cover x1
- Carrying Bag x1
- Power Adapter x1
- User Manual x1

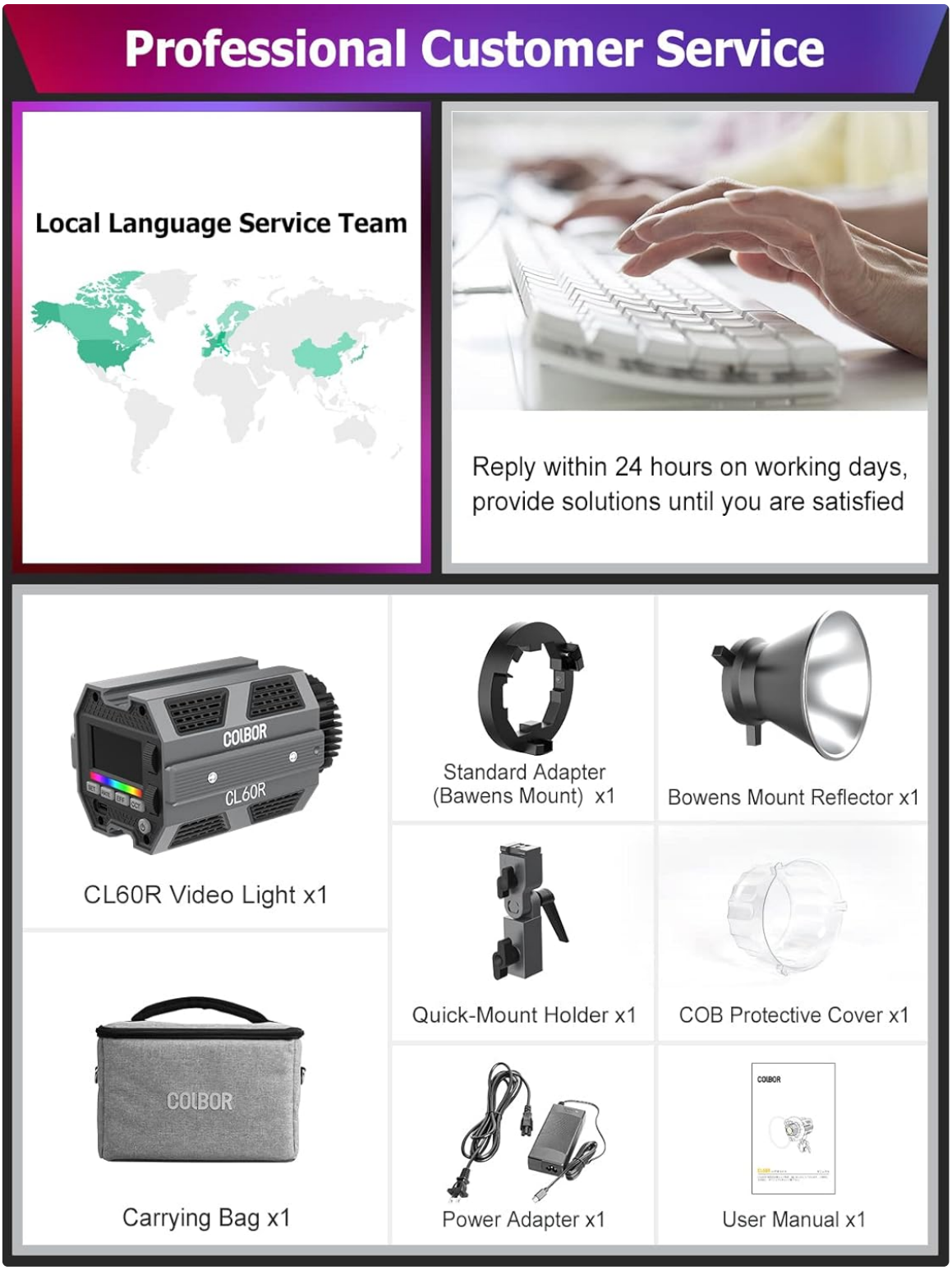

Image: The COLBOR CL60R package contents, neatly arranged, showing the light unit, Bowens mount adapter, reflector, quick-mount holder, COB protective cover, carrying bag, power adapter, and user manual.

3. Setup and Installation

3.1. Attaching the Bowens Mount Adapter and Reflector

1. Remove the COB protective cover from the light head.
2. Align the Bowens mount adapter with the grooves around the lamp head. Apply slight force and rotate until it clicks securely into place.
3. Align the Bowens mount reflector with the adapter. Push and twist until it locks. To remove, press the

quick-release button on the adapter and twist.

Image: The COLBOR CL60R light with a Bowens mount adapter and reflector securely attached, demonstrating the assembled unit.

3.2. Mounting the Light

1. Attach the quick-mount holder to the NATO rail on the COLBOR CL60R. Slide it in until it locks.
2. Mount the assembled light onto a light stand or tripod using the quick-mount holder. Adjust the angle and tighten the screw to secure.

Image: The COLBOR CL60R light mounted on a light stand, demonstrating its use with a softbox for studio photography.

Video: COLBOR CL60R Operation Guide. This video provides a visual walkthrough of the installation process, including attaching accessories and mounting the light.

4. Power Connection

4.1. AC Power Adapter

Connect the provided AC power adapter to the USB-C port on the light. Ensure the cable is fixed to the light base using the cable fixer to prevent strain. Long press the power button to turn on the light.

4.2. V-Mount Battery / PD Power Bank

The CL60R can be powered by a V-mount battery or a PD (Power Delivery) power bank. Attach the V-mount battery plate (if applicable, sold separately) to the NATO rail. Connect the appropriate power cable (e.g., D-Tap to USB-C) from the battery/power bank to the light's USB-C port. Ensure the power source can handle

the light's output demands (up to 80W). When battery runs low, the brightness will adjust accordingly to protect the power cord from overheating due to excessive current.

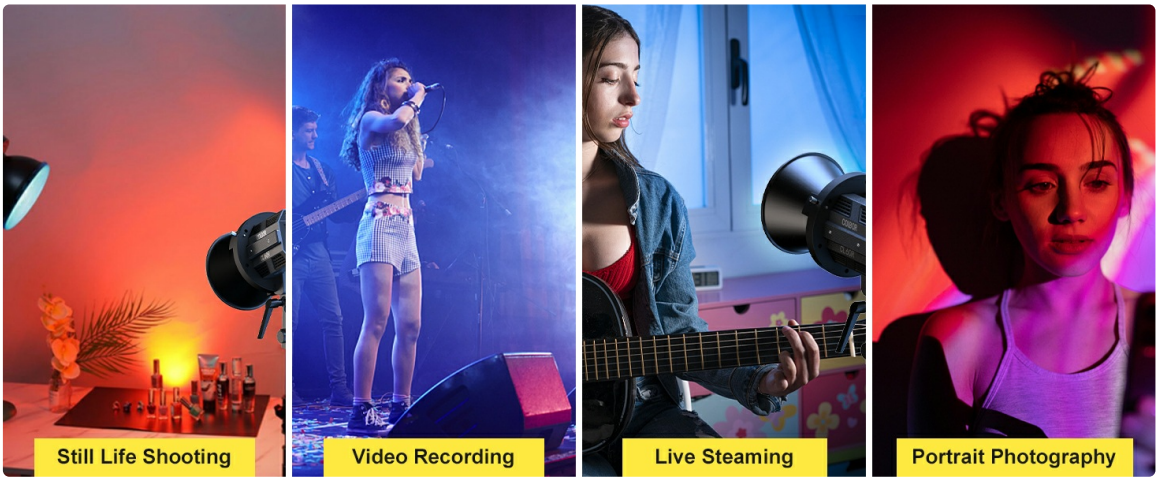

Image: The COLBOR CL60R light demonstrating various power options, including a V-mount battery and a power adapter connected via its special Type-C interface.

5. Operating Instructions

5.1. Controls Overview

The CL60R features an intuitive control panel with a display screen, buttons, and control wheels for easy adjustment.

- **Power Button:** Long press to power on/off.
- **Up Control Wheel:** Roll to select options within each mode.
- **Down Control Wheel:** Roll to adjust the value of selected options. Press to change to pre-set CCT & DIM values.
- **MODE Button:** Short press to switch between CCT/HSI modes.
- **EFF Button:** Short press to enter Effect mode.
- **RATE Button:** Short press to switch the light effect frequency (Lv.1~Lv.5 & random mode).
- **SET Button:** Short press to enter the settings menu.

5.2. CCT (Correlated Color Temperature) Mode

In CCT mode, you can adjust the color temperature from 2700K (warm white) to 6500K (cool white) and the brightness (DIM) from 0% to 100%. Use the control wheels to make precise adjustments.

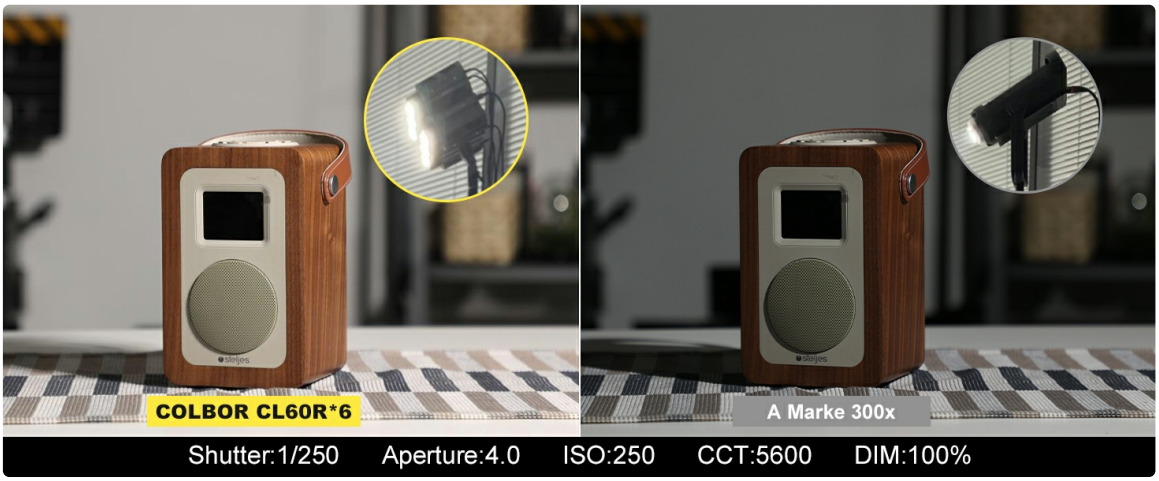

Image: The COLBOR CL60R's display showing CCT (Color Temperature) and DIM (Dimming) settings, indicating adjustable light output.

5.3. HSI (Hue, Saturation, Intensity) Mode

In HSI mode, the CL60R offers full 360° color adjustment with variable saturation and hue ratings, allowing access to up to 3,600,000 colors. Adjust these parameters using the control wheels.

Image: The COLBOR CL60R light showcasing its 360° full-color adjustable RGBWW capabilities, with a color wheel graphic and various colored light outputs.

Video: Colbor Any Color Any Where. This video demonstrates the full color capabilities of the COLBOR CL60R, showcasing various hues and saturation levels.

5.4. Lighting Effects (EFF Mode)

The CL60R includes 13 lighting effects that create 61 realistic scenarios. These effects can be adjusted for rate and intensity. The light also features an audio-sensitive system that can react to ambient sounds, voices, and music to create synchronized light effects.

- Fire
- CCT Chase
- Pulsing
- TV
- Explosion
- Spark
- Faulty Bulb
- Welding
- Strobe
- Lightning
- Party
- Beacon
- SOS

Image: The COLBOR CL60R's display showing a selection of its 13 built-in lighting effects, such as Fire, CCT Chase, Pulsing, TV, Explosion, Spark, Faulty Bulb, Welding, Strobe, Lightning, Party, Beacon, and SOS.

Image: The COLBOR CL60R light demonstrating its audio-sensitive RGB COB LED feature, with a visual representation of sound waves influencing light output in a party setting.

5.5. Cooling Modes

The CL60R features a built-in Hummingbird Intelligence Cooling System with three available modes: Smart, Quiet, and Performance. Choose the appropriate mode based on your shooting environment and noise requirements. The protection system is activated when the light overheats.

Image: The COLBOR CL60R highlighting its aluminum construction for faster heat dissipation and the Hummingbird Intelligence Cooling System, with a graph showing fan noise levels in Quiet Mode (less than 20dB).

5.6. APP Control

Download the COLBOR Studio APP to control the CL60R remotely. Long press the down control wheel to set APP pairing mode. Turn on Bluetooth on your phone. Once the light appears in the APP, it means successful pairing. You can adjust brightness, color temperature, light effects, and rate via the APP.

Image: A smartphone displaying the COLBOR Studio APP interface, showing various controls for the CL60R light, including CCT, HSI, and effects, with the light unit visible in the background.

5.7. Group Control

The unique PowerCube design allows multiple CL60R units to be seamlessly built into a powerful cube lighting matrix using their slide rails. Lights can control each other when set as transmitter (TX) and receiver (RX) at the same time. When set as the transmitter, it can control the light that is set as the receiver. The receiver cannot control the transmitter.

Image: Multiple COLBOR CL60R units connected together to form a larger lighting matrix, illustrating the PowerCube design for increased power output.

6. Maintenance

- Clean the light regularly with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- Ensure proper ventilation during operation to prevent overheating.
- Store the light in its carrying bag in a cool, dry place when not in use.
- Avoid exposing the light to extreme temperatures or humidity.

7. Troubleshooting

- **Light not turning on:** Check power connections. Ensure the power adapter or battery is correctly connected and providing sufficient power. Long press the power button.
- **Power cable overheating:** If using a battery, ensure it meets the light's power demands. The light's brightness may automatically adjust to prevent overheating. Use the provided cable fixer to secure the power adapter.
- **APP connection issues:** Ensure Bluetooth is enabled on your phone and the light is in APP pairing mode. Try resetting the Bluetooth connection on both devices.
- **Fan noise:** Adjust the cooling mode to 'Quiet' if noise is a concern for your recording environment.

8. Specifications

Feature	Detail
Product Dimensions	3.54 x 3.15 x 3.54 inches
Item Weight	4.02 pounds
Brand	COLBOR
Battery Life	2 Hours (dependent on power source and usage)
Connectivity Technology	APP (Bluetooth)
Hardware Interface	USB-C
Manufacturer	COLBOR

9. Warranty and Support

The COLBOR CL60R comes with a 365-day warranty. For professional customer service, please contact the local language service team. Emails are typically replied to within 24 hours on working days, with solutions provided until customer satisfaction.

10. Safety Information

- Do not look directly into the light source when it is on.
- Keep the device away from water and flammable liquids.
- Do not disassemble or modify the product. Repairs should only be performed by authorized personnel.
- Ensure the light is securely mounted to prevent accidental falls.
- Use only approved power adapters and accessories.

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