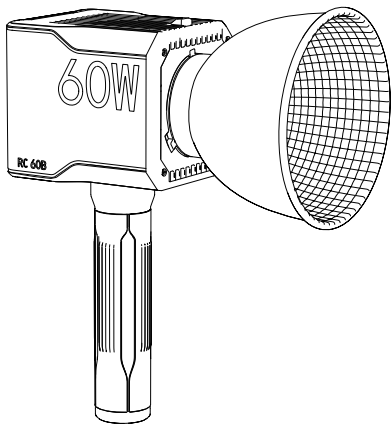


# SmallRig



## **RC 60B COB LED Video Light (Lite Edition)**

User Manual

## Foreword

Thank you for purchasing the SmallRig COB LED video light. Please read the User Manual carefully before using it.

## Warnings

- Please keep the User Manual properly. For your safety and the safety of others, please ensure that this User Manual is enclosed with the gear when it is borrowed by someone.
- Please read all warnings carefully and adhere to the gear usage specifications outlined in this manual.
- Children should only operate this equipment under adult supervision. Please do not leave the gear unattended without continuous supervision.
- Please remove the silicone cover in front of the COB chip board before use.
- After using the gear, the COB chip board, top, and bottom of the gear will become extremely hot. Please avoid touching these areas until the gear has cooled down. For your safety and well-being, do not block the cooling holes and avoid directly exposing your eyes to the COB LED chip.
- To avoid stumbling over the power cable or accidentally pulling it, which may cause the gear to lose power, please properly secure the power cable after use. Also, be cautious and make sure not to place the power cable near heat sources or interfaces.
- Please do not operate the gear or power cable if they are damaged. In the event that the gear or accessories are damaged or experiencing a fault, please seek assistance from a qualified repairing engineer.
- Please make sure that the gear has completely cooling down before storage. Place it in the appropriate compartment in the carry bag.
- To ensure proper operation of the gear, it is recommended to store it in a cool, dry, and clean environment. Do not store the gear near damp areas or in the vicinity of liquids, flammable substances, or volatile solvents to avoid damaging the gear.
- Charging temperature: 0 ~ 45°C (14 ~ 113°F)  
Working temperature: -10 ~ 45°C (14 ~ 113°F)
- Storage temperature:  
One month: -20 ~ 60°C (-4 ~ 140°F);  
Three month: -20 ~ 45°C (-4 ~ 113°F);  
One year: -20 ~ 20°C (-4 ~ 68°F)
- Reference storage temperature/ humidity: 20°C ± 5°C (59 ~ 77°F) / 60 ± 15%
- If you need to clean the surface of this gear, please use a dry, soft cloth for cleaning. Before cleaning and performing maintenance, make sure to disconnect the power adapter and body connection cable.
- To reduce the risk of electric shock, it is strictly prohibited to immerse this gear in water or any other liquids.
- To reduce the risk of electric shock, it is strictly prohibited to dismantle this gear without authorization. If the gear malfunctions and requires repairs, please consult the relevant purchase channel and submit it to professional repair personnel. Non-standard assembly and repairs may cause safety hazards. Unauthorized dismantling is strictly prohibited and, once verified, SmallRig will consider the warranty void.
- Using non-SmallRig recommended accessories may cause hazards such as fire or electric shock. Please refer to the accessories provided by SmallRig or use

certified accessories from qualified manufacturers based on the specifications provided by SmallRig. If it is verified that the use of non-compliant accessories leads to gear malfunction, SmallRig will consider the warranty void.

- This gear has been certified with CE, RoHS, FCC, ISED, RCM, MSDS, UN38.3, and other certifications. Please refer to the relevant national standards for use and operation. SmallRig will verify and consider the warranty void for gear malfunctions caused by improper operation. This user manual is created based on rigorous testing by SmallRig, and in the event of any changes in design and specifications, no separate notification will be provided.



**Please do not disassemble the product or touch the COB LED chip and front cover glass. If you have any question, please contact the seller to apply after-sales service.**

### **FCC Compliance Statement:**

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

Unauthorized modifications to this device will void the warranty.

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures to resolve the interference:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

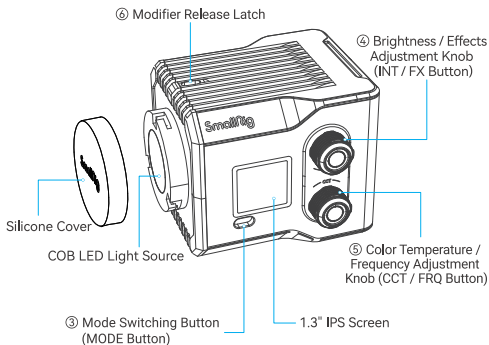
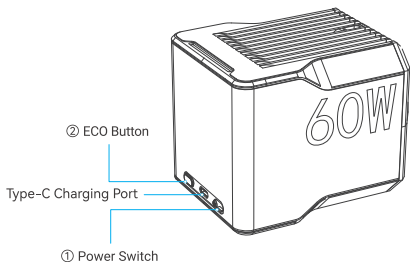
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### **FCC Radiation Exposure Statement:**

This device complies with FCC radiation exposure limits set forth for uncontrolled environments.

## Product Details





① **Power Switch:** Set it to "ON" to power on the RC 60B. Set it to "OFF" to power off.

② **ECO Button:** Press and hold this button for 2 seconds to enter or exit the "ECO" mode. In the "ECO" mode, the RC 60B power output will be limited to 60%, extending dash time up to 75 minutes. Besides, the fan noise will be decreased to 23dB. The screen will display "ECO".

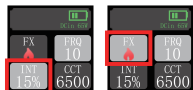


③ **Mode Switching Button (MODE Button):**

Clicking this button will cycle between the color temperature mode (CCT) and the special effects mode (FX). The screen display will change as follows.



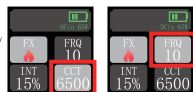
④ **Brightness / Effects Adjustment Knob (INT / FX Button):** In CCT mode, rotating the knob clockwise / counter-clockwise increases / decreases the brightness output ratio. Clicking the knob allows quick switching between 33% / 66% / 100% brightness output ratios. In effects mode (FX), clicking the knob toggles between brightness adjustment and effects adjustment cursor. The screen display will change as follows.



In FX mode, rotating the knob clockwise / counter-clockwise adjusts the brightness ratio / switch different lighting effects corresponding to the cursor area.

Paparazzi	Television	Falty bulb	Lightning	Breathing	Flickering	Party	Flame	Fireworks

⑤ **Color Temperature / Frequency Adjustment Knob (CCT / FRQ Button):** In CCT mode, rotating the knob clockwise / counter-clockwise increases / decreases the color temperature value. Clicking the knob allows quick switching between 3200K / 4300K / 5600K color temperatures. In effects mode (FX), clicking the knob toggles between color temperature and effects frequency cursor. The screen display will change as follows.

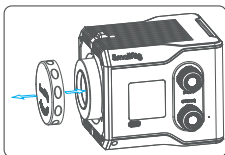


In FX mode, rotating the knob clockwise / counter-clockwise adjusts the color temperature / frequency corresponding to the cursor area.

⑥ **Modifier Release Latch:** When the RC 60B is equipped with light control accessories such as a mini reflector / mini softbox (S-mount), pushing the modifier release latch and rotating the light control accessory clockwise allows for quick detachment of the accessory.

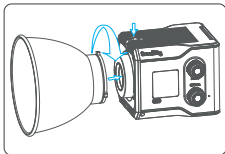
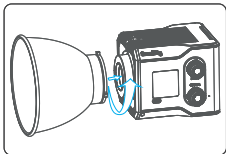
## Installation Instruction

- 1. Remove or insert Silicone Cover:**  
Follow the arrows to remove / insert the silicone cover.



- 2. Installation and Removal for S-Mount Light Control Accessory:**

Take mini reflector as an example (S-Mount). Align the male S-Mount of the mini reflector with the female S-Mount on the front cover of the light, Rotate counter-clockwise to install, Push the attachment release button and rotate the mini standard hood clockwise to remove.



- 3. Creative Installation Methods:** The RC 60B can be flexibly connected to accessories such as a magic arm or clamp via the 1/4" threaded hole to achieve lighting setups in places where it is inconvenient to use a stand light.

## Charging and Maintenance:

This product is equipped with a built-in battery and can be charged / power supplied using the USB-C to USB-C PD charging cable included in the package. The gear's working status and remaining battery level information can be determined through the screen display. Additionally, this product supports simultaneous charging and use.

To ensure the full power operation of the product, it is recommended for users to use a USB PD charger of 65W or above (When the battery is low, and the power of the PD charger is less than 65W, the device operates at reduced power.) to connect the RC 60B and the USB PD charger for charging / power supply.

## Charging when Powering On:

Connect the charger and RC 60B using the USB-C to USB-C PD charging cable. At this time, the screen will display "DC in XXw" (XX indicates the rated power output of the connected adapter).



## Shutdown Charging Interface:



## Battery Display Function:

When the battery is discharging, the remaining usage time is displayed below the battery icon.



## Battery level display is as follows:

$\leq 2\%$	$> 2\% \leq 25\%$	$> 25\% \leq 50\%$	$> 50\% \leq 75\%$	$> 75\% \leq 100\%$

## Low Battery Alert Function:

When the battery of RC 60B is low, it will activate the Low Battery Alert. The screen will display "Low Battery! Please charge!" and the gear will be turned off after 5 seconds.



## Overheating Protection Function:

To ensure the long-term stable operation of RC 60B, it is recommended to store and use this gear in accordance with the temperature / humidity / environment mentioned in the "Important Reminder". RC 60B has a built-in overheating protection function. When the temperature of the lamp or battery exceeds the specified temperature, the gear will take overheating protection measures.

When the battery temperature reaches 62 C / 63 C / 64 C, the output power will be reduced to 80% / 65% / 50%. If the battery temperature exceeds 65 C, the gear will automatically shut down and display "Overheat!" as a warning. When the temperature of the COB LED light source reaches 100 C, the output power will be reduced to 70%.








If the high temperature persists for one minute, the gear will shut down and display "Overheat!". After the battery / lamp temperature cools down, you can restart the gear to resume operation.

Overheat!

If the screen displays "Sensor error," it indicates that the thermistor on the gear has failed. The gear will stop running. Please contact the dealer from whom you purchased the gear for after-sales service or repair.

Sensor error!

The reduction in output power will be indicated on the screen, with the actual percentage of output power displayed at the center of the image .

0 ~ 13	14 ~ 27	28 ~ 41	42 ~ 55	56 ~ 69	70 ~ 83	84 ~ 99	100
 1	 15	 30	 45	 60	 75	 90	No prompt

## The charging protocols supported by RC 60B are as follows:

PD3.0: 5V / 3A, 9V / 3A, 12V / 3A, 15V / 3A, 20V / 5A

QC2.0 / AFC / FCP: 5V / 3A, 9V / 2A, 12V / 1.5A

APPLE-2.4A: 5V / 2.4A

BC1.2 : 5V / 1.5A

It is recommended to use the SmallRig 100W USB PD charger to charge / power the RC 60B (which needs to be purchased separately). Please note that using a charger with a power output of 15W or below may not provide enough power for the RC 60B to function properly. To ensure the long-term proper functioning of the gear, it is advised to fully charge the gear every three months, even if it is not being used for an extended period of time. Additionally, please remember to store it in the storage environment mentioned in "Important Reminder 10 ~ 13".

## In the Box

Before using please check if the following items are included in the package. If any items are missing, please contact the distributor.



RC 60B COB LED  
Video Light × 1



mini Reflector × 1



3-meter USB-C to  
USB-C PD Charging  
Cable × 1



Protective  
Cover × 1



User Manual × 1

## Specifications

Power Consumption (Max)	63W
Cooling Mode	Active Cooling
Color Temperature	2700K ~ 6500K (± 200K)
Power / Current for Charging Max)	48W / 3A
Battery Rated Voltage / Capacity	14.4V / 3400mAh / 48.96Wh
Dash Time	Full power output: 45 minutes ECO mode: 75 minutes
Fan noise	26dB in regular mode and 23dB in ECO mode
Dimensions	11,5 × 8,5 × 8,5 cm / 4,5 × 3,5 × 3,5in
Weight	650.0 ± 20.0g / 23.0 ± 0.7oz

## Light Source Test Data Sheet

Bare Light:

Output Percentage	100%			
Max Illumination (Lux@1m)	2670			
Average CRI (Ra)	97			
Average TLCI	98			
Color Temperature (Setting)	2700K	3200K	5600K	6500K
Actual CCT	2813	3346	5746	6644
SSI	91	92	87	85
Average TM-30	Rf	96		
	Rg	100		

With mini Reflector:

Output Percentage		100%			
Max Illumination (Lux@1m)		11200			
Average CRI (Ra)		97			
Average TLCI		98			
Color Temperature (Setting)		2700K	3200K	5600K	6500K
Actual CCT		2809	3335	5609	6474
SSI		92	91	87	84
Average TM-30	Rf	96			
	Rg	100			