

# SmallRig

**EN** Operating Instruction

**CN** 操作指引

**DE** Betriebsanweisungen

**FR** Instructions opérationnelles

**IT** Istruzioni per l'uso

**ES** Instrucciones operativas

**PT** Instruções de funcionamento

**NL** Gebruiksaanwijzingen

**SE** Bruksanvisning

**KR** 운영 지침



MODEL/HVIN: **RC 220B Pro**

**COB LED Video Light**

**COB 摄影补光灯**

## Important Reminder

Thank you for choosing SmallRig products.

1. Please read the user manual carefully before using this product.
2. Please pay attention to all warnings and follow all instructions in the user manual.
3. For children, please use it under adult guidance.
4. Please remove the protective cover of the COB lamp bead before use.
5. After the light is used, the COB and panel, the top and bottom are high temperature areas. Before cooling the device, avoid high temperature areas. For your safety and health, Do not block the heat dissipation hole when using the device, and do not look directly at the device for a long time when it is working.
6. Ensure that the equipment is completely cooled before storage. After the device has cooled, place in the appropriate position of the storage bag.
7. In order to ensure the normal operation of the equipment, it is recommended to store it in a cool, dry and clean environment. Do not store the device near damp, liquid, or other flammable or volatile solvents. Avoid damaging the equipment.
8. If you need to clean the surface of the device, use a dry soft cloth. Before cleaning and servicing, be sure to unplug the power adapter and cable.
9. To reduce the risk of electric shock, do not immerse the device in water or other liquids.
10. In order to reduce the risk of electric shock, do not disassemble the device without permission. If the device fails and needs maintenance, please consult the relevant purchase channels and be handled by professional maintenance personnel. Non-standard assembly and maintenance may have security risks, unauthorized disassembly is prohibited.
11. Use of accessories not recommended by SmallRig may cause hazards such as fire or electric shock. Please refer to the accessories or according to the specifications provided by SmallRig, and used accessories certified by qualified manufacturer.



Do not disassemble the product. If you suspect any problem with the product, please contact the purchasing channel and apply for after-sales service.

**EN**

## In the Box

|                 |     |                     |     |                       |     |
|-----------------|-----|---------------------|-----|-----------------------|-----|
| LED Video Light | × 1 | Power Cable         | × 1 | Carrying Bag          | × 1 |
| AC Adapter      | × 1 | 55° Hyper Reflector | × 1 | Operating Instruction | × 1 |

## Product Introduction



## Installation Instruction

### 1. Removal and installation of protective cover

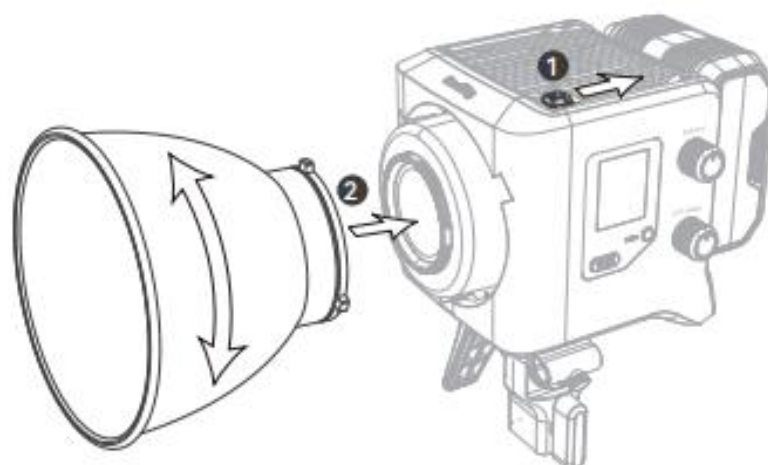
Push the release latch in the direction of the arrow shown, and rotate the protective cover out. Rotation in the opposite direction to install the cover.



 Please be sure to pull out the protective cover before use, otherwise it will burn; Install the cover to protect the lamp when not in use.

### 2. Removal and installation of Hyper reflector

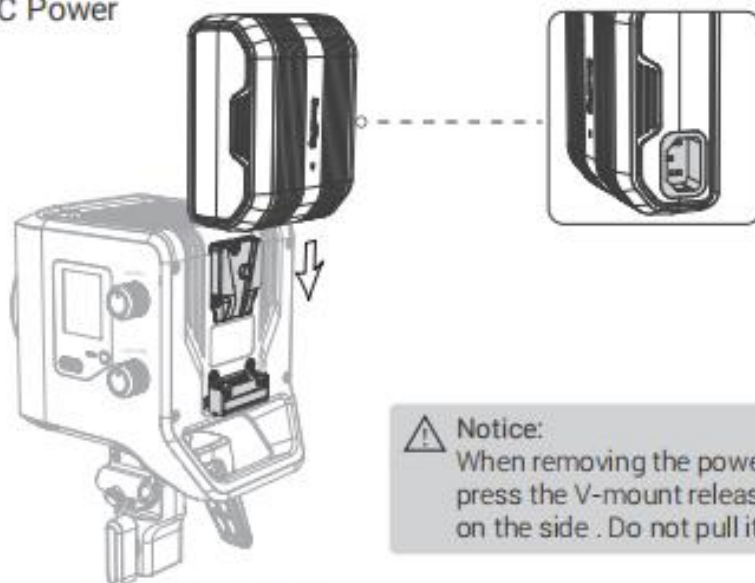
Push the release latch in the direction of the arrow shown, and rotate the hyper reflector out. Rotation in the opposite direction to install the reflector.



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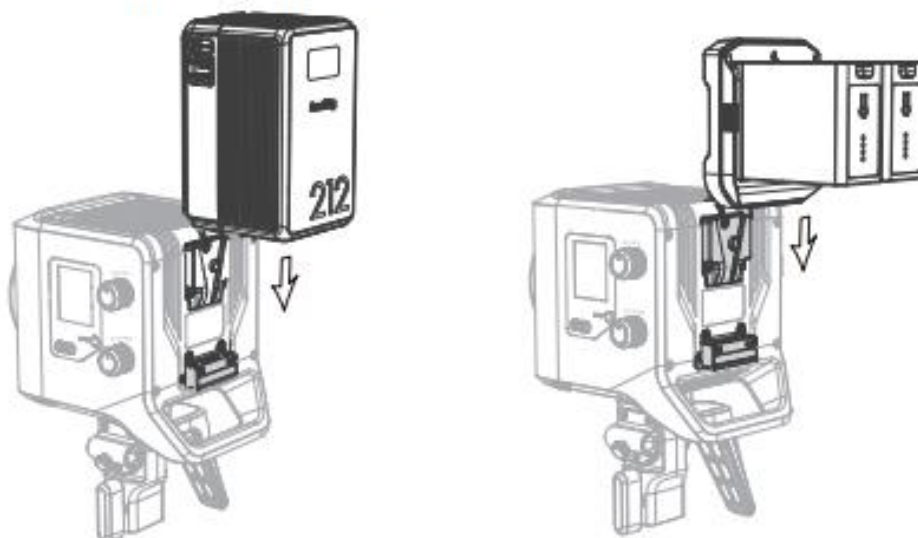
## Power supply

### 1. AC Power



**Notice:**  
When removing the power adapter, press the V-mount release button on the side. Do not pull it out forcibly.

### 2. V-mount and NPF Battery



(1) Batteries are not standard and need to be purchased separately.



(2) The V-mount battery voltage that is lower than 20V will support maximum input of 150W and showed maximum 68% INT on the screen. When the voltage is above 20V, the light can be full output. A battery with a maximum capacity of 150Wh or above is recommended used with the light.

(3) The maximum input will be 60W when use with NPF batteries and the INT showed maximum 27% on the screen.

## Product Operation

### 1. CCT Mode

- (1) Rotate the INT / FX knob to adjust the brightness at 1% variable, and the brightness varies from 0 to 100%; Press the INT/FX knob, the brightness varies between 20%, 40%, 60%, 80% and 100%.



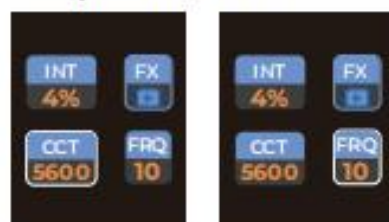
- (2) Rotate the CCT/FRQ knob to adjust the color temperature at 100K variable, and the color temperature varies from 2700K to 6500K.



### 2. Press the MODE button to FX mode



- (1) Press the CCT/FRQ knob to switch between the CCT and FRQ, and rotate to adjust CCT or FRQ.



- (2) Rotate the INT/FX light effect knob to switch between 9 kinds of light effects; Press the knob to switch between INT/ and FX.

|           |            |            |           |           |            |       |       |           |
|-----------|------------|------------|-----------|-----------|------------|-------|-------|-----------|
| Paparazzi | Television | Falty bulb | Lightning | Breathing | Flickering | Party | Flame | Fireworks |
|           |            |            |           |           |            |       |       |           |

EN

### 3. App Control

Users can download SmallGoGo via mobile phone or tablet. After successful connection, a wireless icon appears in the upper right corner of the screen then can control the light wirelessly.



For more information, please visit [www.smallgogo.com](http://www.smallgogo.com)

### 4. BLE connect

- (1) Pressing the Reset button for 3 seconds, the wireless icon appears on screen and blinks 6 times to complete the wireless reset.
- (2) After the reset is completed, the device and lights can be reconnected.



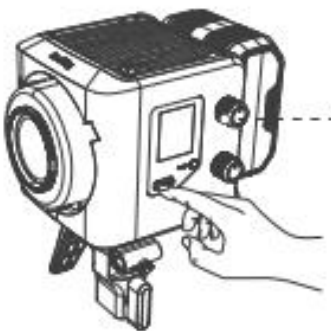
|                                                              |                                                                                                                    |                                                                                                                                                                                                                                                                |                                                                                                            |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| A smartphone screen showing 'BLE ID' and the value '15D16F'. | <p>Notice:</p> <p>(1) The Reset button is multiplexed. Press once to show the BLE number. Press again to exit.</p> | A smartphone screen displaying the SmallGoGo app interface. At the top, it says 'INT' with a slider bar set to 20%. Below that, it says 'CCT' with a semi-circular color temperature slider set to 6500K. A Bluetooth icon is visible in the top right corner. | <p>(2) Press 3 times to silent mode and the light keeps 20% brightness. Press another 3 times to exit.</p> |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

### 5. OTA Upgrade

The firmware can be upgraded online through the SmallGoGo App. The device will automatically restart 3 seconds after the upgrade is successful.

### 6. DMX Mode

Long press the MODE button or connect the SmallRig DMX adapter to enter DMX mode.



Channels as follows:

| Channel         | Channel Number | Parameter           |
|-----------------|----------------|---------------------|
| Channel 1 / INT | 0-20           | Turn off the lights |
|                 | 21-218         | 1%-99%              |
|                 | 219-255        | 100%                |
| Channel 2 / CCT | 0-16           | 2700K               |
|                 | 17-22          | 2800K               |
|                 | 23-28          | 2900K               |
|                 | 29-34          | 3000K               |
|                 | 35-40          | 3100K               |
|                 | 41-46          | 3200K               |
|                 | 47-52          | 3300K               |
|                 | 53-58          | 3400K               |
|                 | 59-64          | 3500K               |
|                 | 65-70          | 3600K               |
|                 | 71-76          | 3700K               |
|                 | 77-82          | 3800K               |
|                 | 83-88          | 3900K               |
|                 | 89-94          | 4000K               |
|                 | 95-100         | 4100K               |
|                 | 101-106        | 4200K               |
|                 | 107-112        | 4300K               |
|                 | 113-118        | 4400K               |
|                 | 119-124        | 4500K               |
|                 | 125-130        | 4600K               |
|                 | 131-136        | 4700K               |
|                 | 137-142        | 4800K               |
|                 | 143-148        | 4900K               |
|                 | 149-154        | 5000K               |
|                 | 155-160        | 5100K               |
|                 | 161-166        | 5200K               |
|                 | 167-172        | 5300K               |
|                 | 173-178        | 5400K               |
|                 | 179-184        | 5500K               |
|                 | 185-190        | 5600K               |
|                 | 191-196        | 5700K               |
|                 | 197-202        | 5800K               |
|                 | 203-208        | 5900K               |
|                 | 209-214        | 6000K               |
|                 | 215-220        | 6100K               |
|                 | 221-226        | 6200K               |
|                 | 227-232        | 6300K               |
|                 | 233-238        | 6400K               |
|                 | 239-255        | 6500K               |

| Channel         | Channel Number | FX / FRQ   |
|-----------------|----------------|------------|
| Channel 3 / FX  | 0-24           | Standard   |
|                 | 25-49          | Paparazzi  |
|                 | 50-74          | Television |
|                 | 75-99          | Falty bulb |
|                 | 100-124        | Lightning  |
|                 | 125-149        | Breathing  |
|                 | 150-174        | Flickering |
|                 | 175-199        | Party      |
|                 | 200-224        | Flame      |
|                 | 225-255        | Fireworks  |
| Channel 3 / FRQ | 0-26           | 1          |
|                 | 27-51          | 2          |
|                 | 52-76          | 3          |
|                 | 77-101         | 4          |
|                 | 102-126        | 5          |
|                 | 127-151        | 6          |
|                 | 152-176        | 7          |
|                 | 177-201        | 8          |
|                 | 202-226        | 9          |
|                 | 227-255        | 10         |



**NOTE:**

- (1) A SmallRig DMX controller is required for DMX functionality, and the controller is purchased separately.
- (2) The interface is a 4-pin XLR and supports only SmallRig DMX adapter and control panel.



## Specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Working Current         | 10A                                   |
| Light Voltage           | DC 24V                                |
| Adapter Working Voltage | AC100 - 240V                          |
| TLCI                    | 98                                    |
| CCT Range               | 2700K - 6500K                         |
| Dimensions              | 166 × 120 × 155mm / 6.5 × 4.7 × 6.1in |

|                         |                             |
|-------------------------|-----------------------------|
| Power Consumption (MAX) | 220W                        |
| Cooling Mode            | Active Cooling              |
| CRI                     | 95                          |
| App control             | 2.4GHz                      |
| Wireless Distance       | 100m                        |
| Weight                  | 1650.0 ± 10g / 58.2 ± 0.4oz |

### Brightness test data table

| CCT   | Distance  |            |
|-------|-----------|------------|
|       | INT       | 1m         |
| 2700K | Bare Bulb | 6120 (lux) |
|       |           | 568 (fc)   |
| 3200K | Bare Bulb | 7590 (lux) |
|       |           | 705 (fc)   |
| 5600K | Bare Bulb | 9180 (lux) |
|       |           | 853 (fc)   |
| 6500K | Bare Bulb | 7690 (lux) |
|       |           | 714 (fc)   |

\* The brightness data is average data, and the brightness of different lights will vary.

**FCC Statement**

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 a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 to correct the interference by one or more of the following measures:

- 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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

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

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**FCC Radiation Exposure Statement:**

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with **minimum distance 20cm** between the radiator and your body.

## ISED Statement

- English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.