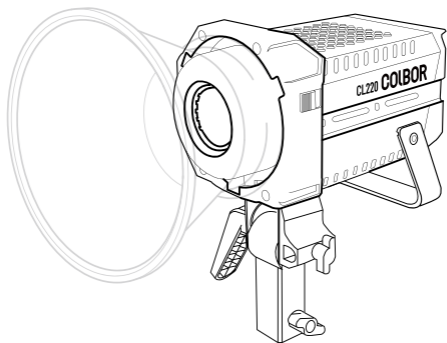


# COLBOR



**CL220** Video Light

User Manual

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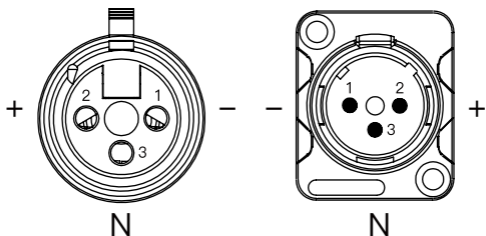
Thank you for choosing COLBOR product. Please read this manual carefully before use and follow all instructions mentioned herein.

## Caring For Your COLBOR Product

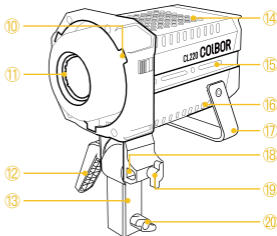
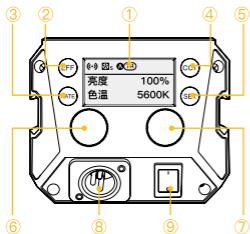
- Keep corrosive chemicals, liquids and heat source away from the product to prevent mechanics damage.
- The product is not waterproof.
- Do not leave the product unattended while in use. Keep out of reach of children.
- Do not handle with wet hands. Do not touch the hot COB surface.
- Please do not block the ventilation and do not look at the light directly when it is on.
- Do not attempt to disassemble or modify the product. Doing so voids warranty.
- Please have the product checked or repaired by authorized technicians if any malfunctions happened.
- Disconnect from the power supply when it is not in use.
- Do not cover, inverted COB and radiator for high temperature, do not cover, inverted, do not touch the lamp holder and radiator vent with your hands when the product in use.
- Do not use any power adapter of other products to avoid the lamp malfunction.
- Malfunction may be caused by dropping, impact of external force.
- Failure to follow all the instructions may result in mechanics damage.
- Our company reserves the right of final interpretation of the product.
- Product design and specifications are subject to change without prior notice.

## Power Connection

- You must use the power adapter that comes with the product rather than other adapters to avoid damaging the lamp. The positive and negative connections of the power adapter interface( DC OUT) and the lamp power interface (DCIN) are shown below:



## Product Instructions



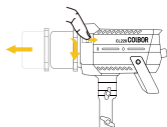
- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| ① LED Display Screen              | ⑪ COB Lamp Beads                     |
| ② EFF Mode Button                 | ⑫ Lamp Angle Adjustment Locking Grip |
| ③ EFF Rate Option Button          | ⑬ Bracket                            |
| ④ Color Temperature Option Button | ⑭ Air Outlet                         |
| ⑤ Setting Button                  | ⑮ NATO Slideway                      |
| ⑥ Color Temperature Control Knob  | ⑯ Air Inlet                          |
| ⑦ Brightness Control Knob         | ⑰ Lamp Grip                          |
| ⑧ DC 48V Power Port               | ⑱ Soft Light Cover Hole              |
| ⑨ Power Button                    | ⑲ Soft Light Cover Hole Screws       |
| ⑩ Bowens Mount                    | ⑳ Bracket Screw                      |

## Light Installation

### 1. Removal of lamp cap protection cover

Hold the COB cover with the Bowens Mount tenon and rotate it as the direction of the arrow.

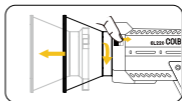
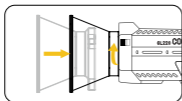
★ **Note:** Be sure to remove COB protective cover and COB protective film before use.



### 2. Installation and removal of reflector

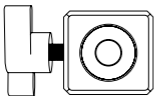
**Installation of reflector:** Align the reflector with the groove around the lamp head and clip it in, turn the reflector as the direction of the arrow, and the reflector installation will be completed after the top rod rebounds.

**Removal of reflector:** Under the instructions of "Lamp Cap Protection Cover Removal".

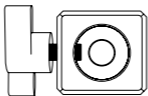


### 3. Installation and fixation of light

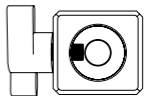
Rotate the lamp holder screw until the inner wall not shielded and put the product on the top of the lamp holder to tighten the bracket screw for fixation. Adjust the lamp body irradiation Angle and tighten the lamp holder Angle grip fixed.



Screw out, the inner wall of the bracket without any shelter



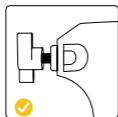
Halfway the screw out



The screw is not out at all

### 4. Install the soft light cover

Insert the handle of the soft light umbrella into the umbrella hole. After adjustment, lock the cover hole screw.



Screw out, the inner wall of the soft light cover without shelter



The screw is not out at all

### 5. Power Connection

#### (1) Mount the power adapter

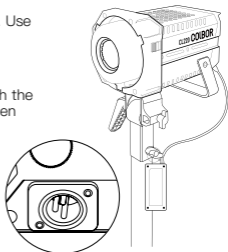
Do not suspend the power adapter in the air. Use wire rings to hang it on the lamp stand.

#### (2) Power with power adapter

Connect the power adapter, align the pin with the DC power interface of the lamp body, and then power through the cable after stable.

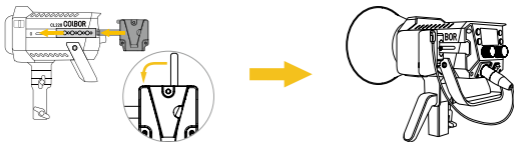
#### (3) Power cord storage

Please turn off the lamp before unplugging the power cord. When unplug the power cable, hold down the safety lock on the connector before removing it. If unlocked, do not forcibly remove the power supply.



#### (4) Power with V-port battery

Mount the V-port battery to the lamp by complimentary the NATO expansion bar with VM3 (optional), and then connect the D-tap to XLR power cable to start the lamp.



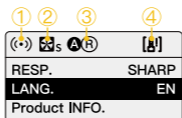
#### Note:

- \* For one 14.8V battery powering, the maximum brightness is 50% of full power.
- \* When battery runs low, the brightness will adjust accordingly for protecting the power cord from overheating due to excessive current.
- \* Dual V-port battery mobile power supply solution is recommended.

## Operation Instructions

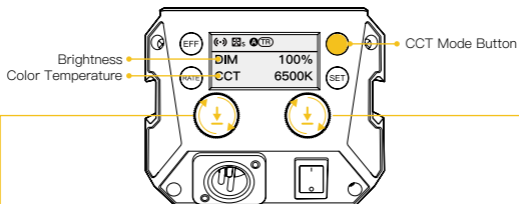
1. Please remove the COB protective cover before using the light.
2. Turn on the lamp: After confirming that the power connection is normal, press the switch to "–", and the screen will display the brand and product module, and then enter the operation interface. (Default mode: CCT)
3. Turn off the lamp: press the switch to "o" to turn off the power switch.

### 1. Status Icon Description



① APP Connection Status Icon	
• (•) ((•))	After selecting wireless connection in Settings menu, the icon will be displayed dynamically.
((•))	The icon is always on to indicate successful pairing with mobile APP. The icon disappears to indicate mobile APP pairing failure, or the product is unpaired.
② Fan Status Icon	
⊗s	Smart Mode. The product will adjust the fan speed according to the internal detected temperature to ensure that it is in optimal working condition.
⊗q	Quiet Mode. The fan keeps running at low speed for minimum noise, and overheating protection will be activated if the product temperature is higher than the alarm value.
⊗P	Performance Mode. Fan runs at the highest speed to ensure heat dissipation.
③ Group Status Icon	
(NULL)	None grouping status. The product defaults to the factory status, and will not be affected by other groups.
(A T)	A stands for Group A. There are fifteen groups (A~O). T stands for Tx.
(A R)	A stands for Group A. There are fifteen groups (A~O). R stands for Rx.
(A TR)	A stands for Group A. There are fifteen groups (A~O). TR stands for TxRx.
④ Product Overheated Alarm Icon	
[!]	If the icon flashes, it means that the internal temperature of the product is too high, and cooling measures need to be taken. If the icon disappears, it means that the operation is normal.

## 2. CCT Mode (Short press CCT Mode Button to enter)



### Color Temperature Control Knob

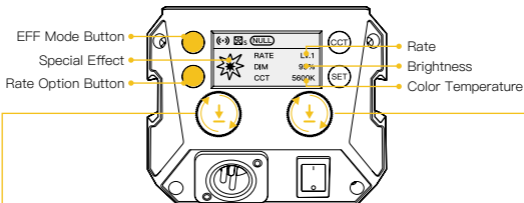
- Turn the knob clockwise or anti-clockwise to adjust color temperature (CCT) from 2700K~6500K
- Press down the knob to quickly switch the preset color temperature to 2700K, 3200K, 4000K, 5600K, and 6500K

### Brightness Control Knob

- Turn the knob clockwise or anti-clockwise to adjust brightness (DIM) from 0%~100%
- Press down the knob to quickly switch the preset brightness to 0%, 25%, 50%, 75%, and 100%

\* Rolling the knob will enlarge the current setting parameter value, and it will automatically return to the main screen after 1.5 seconds of no operation

### 3. EFF Mode (Short press EFF Mode Button to enter)



#### Color Temperature Control Knob

- ↻ Turn the knob clockwise or anti-clockwise to adjust color temperature (CCT) from 2700K-6500K
- ↓ Press down the knob to quickly switch the preset color temperature to 2700K, 3200K, 4000K, 5600K, and 6500K

#### Brightness Control Knob

- ↻ Turn the knob clockwise or anti-clockwise to adjust brightness (DIM) from 0%~100%
- ↓ Press down the knob to quickly switch the preset brightness to 0%, 25%, 50%, 75%, and 100%

#### Light Effect Mode (EFF) Button

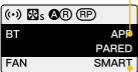
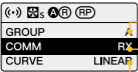
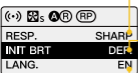
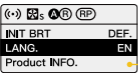
- ↓ Press to switch light effect: Fire → CCT Chase → Pulsing → TV → Explosion → Faulty Bulb → Welding → Strobe → Lightning → S.O.S

EFF	Fire	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K	Faulty Bulb	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	CCT Chase	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: LOCK	Welding	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	Pulsing	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K	Strobe	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	TV	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: LOCK	Lightning	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	Explosion	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K	S.O.S	RATE: LOCK DIM: 0%–100% CCT: 2700K–6500K



## 4. Setting

1. Short press the setting button to enter settings menu.
2. Turn the brightness control knob clockwise or anti-clockwise to choose setting.
3. Press the setting button to adjust corresponding setting (Short press the setting button to adjust the wireless connection mode).

	Settings	Options								
	Wireless Connection	APP/Remote Control Long press the setting button for pairing (One mode for each time)								
	Fan Mode	SMART/ QUIET/ PERFORMANEC SMART: The product will detect the current internal temperature to adjust the fan speed by itself. QUIET: The fan will run at low speed. If the product temperature reaches the alarm value, it will start the power-off protection mechanism. PERFORMANEC: Fan runs at the highest speed to ensure heat dissipation.								
	Group	NULL/ A~O (NULL by default)								
	Communication	TX/ RX/ TXRX (TX by default)								
	Curve	LINEAR, L.CURVE, E.CURVE, S.CURVE.								
	Response	SHARP/ SMOOTH (SMOOTH by default)								
	Initial brightness setting	Default, 0%、25%、75%、100%								
	Language	EN/ CN								
	Product INFO.	Short press the setting button to enter the production information interface. Press the setting button again to go back to settings menu. ① Hardware Version ② Firmware Version ③ Protocol Version ④ MAC Address								
		<table border="1"> <tr> <td>HW.VER.</td> <td>1.01</td> </tr> <tr> <td>FMW.VER.</td> <td>1.01</td> </tr> <tr> <td>CS-VER.</td> <td>1.01</td> </tr> <tr> <td colspan="2">B42E99939BB6</td> </tr> </table>	HW.VER.	1.01	FMW.VER.	1.01	CS-VER.	1.01	B42E99939BB6	
HW.VER.	1.01									
FMW.VER.	1.01									
CS-VER.	1.01									
B42E99939BB6										

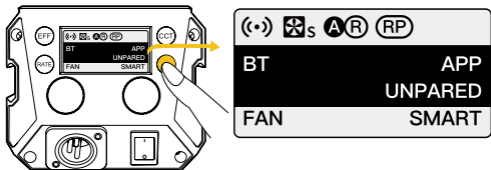
## 5. APP Connection & Light Control

Scan the QR code, or search "COLBOR STUDIO" in app store to download the app for light control.

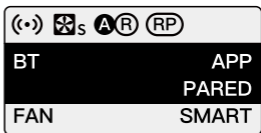
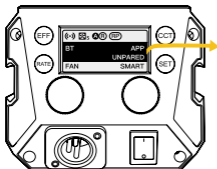
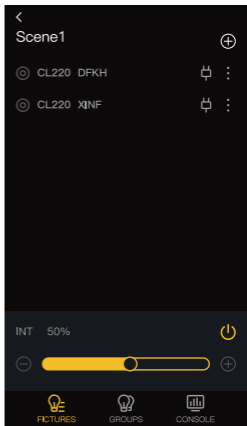
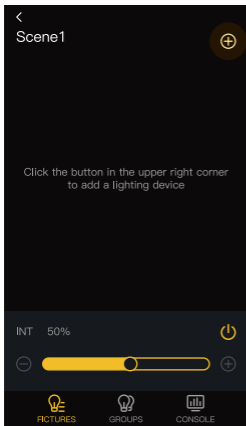


### CL220 Pairing:

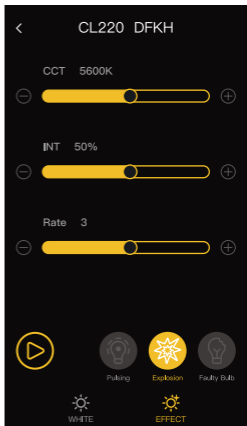
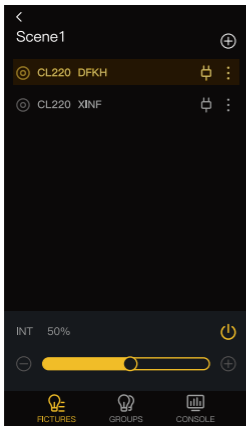
1. Press the setting button and enter the pairing mode. Short press the setting button to choose "APP", then long press the setting button for 3 seconds for pairing.



2. Open the APP and click the “ + ” on the upper right, then click the scene one and click the + on the upper right. Showing CL220 means successfully pairing.

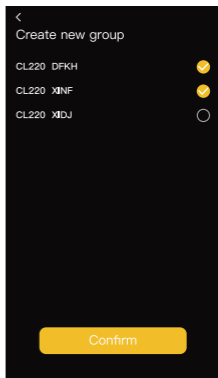
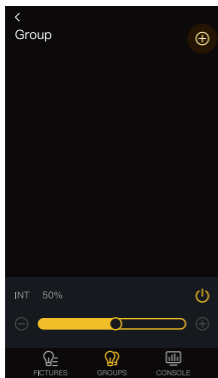


3. Click the CL220 for control.

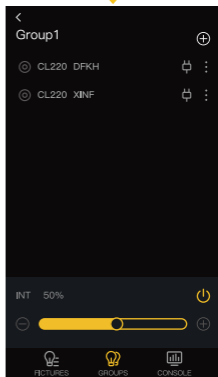


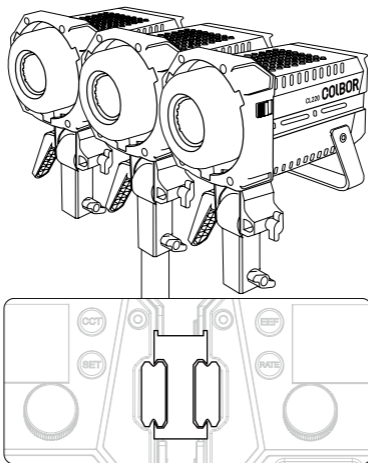
## CL220 Group Control:

1. After successfully pairing the CL220, click the group then click the “+” on the top right. Choose the light for grouping and click the confirm bottom. Showing Group One means successfully grouping.



2. Click the group for lighting control.



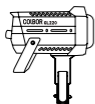


- ★ Equipped with a NATO extension bar and an NQD quick-release device, the lights can be spliced together, and up to three lights can be spliced.

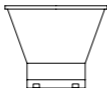
## Specifications

Color Rendering Index	97+
Color Temperature Range	2700K-6500K (±200K)
Beam Angle	≈∠ 120° Reflector ≈∠ 45°
Illumination	See the Form 1 Below
COB Output Power	220W
Power	250W (Max)
Light Working Voltage	DC 48V 5.2A
Cooling Mode	SMART/ QUIET/PERFORMANEC
Connector	Three Core Cannon Head ( 2 For Active, And 1 For Negative)
Body Material	Aluminum Alloy+ABS
Light Dimension (mm)	212*128*219mm
Light Weight	1570g (Light Base Included)
Operating Temperature	-10~40°C

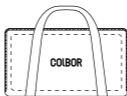
## Package List



CL220 Video Light x1



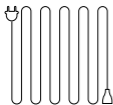
Reflector (Bowens Mount) x1  
(not included in CL220 Lite)



Carrying Bag x1  
(not included in CL220 Lite)



COB Cover x1



3m Plum Tail Cable x1



Power Adapter (with Wire Lanyard) x1



Warranty Card x1



NB3.58 (Optional) x1

✦ Power adapters may vary according to sales region.

## WARRANTY

### Warranty Period

Thank you for purchasing COLBOR products.

1. Customers are entitled to free replacement or repair service in case of quality defect(s) found in the product under normal use within 30 days upon receipt of the product.

2. Original COLBOR products are entitled to 12-month limited warranty service. The warranty period begins on the date of purchase of brand new, unused products by the first end-user.

Within the warranty period, if product defect or failure is attributable to material deflection or technological problem, the defective product or defective part will be repaired or replaced without charge (service and materials fee).

### Warranty Exclusions and Limitations

1. Faults resulted from inappropriate use of a product without following its operation specification

2. Artificial damage, e.g. crash, squeeze, scratch, soaking, exposing to rain or damp

3. Modifications to a product by its user or a third party without prior written consent of COLBOR, e.g. replacement of element or circuit, label alteration

4. The code on product is inconsistent with that of warranty certificate, or the code on the product or warranty certificate is altered or torn off

5. All consumable accessory attached to a product, like cable, cover

6. Faults as a result of force majeure, such as fire, flood, lightning, etc.

## Warranty Claim Procedure

1.If failure or any problem occurs to your product after purchase, please contact a local agent for assistance, or you can always contact COLBOR's customer service through email.

2.Please retain your sales receipt and warranty certificate as proof of purchase. If any of these documents is missing, only sales return or chargeable service will be provided.

3.If the COLBOR product is out of the warranty coverage, the service and the parts cost will be charged.

## Form 1

### Illumination

CCT			1m	3m	5m
2700K	Light Base	LUX	8020	1250	569
		FC	745	116	53
	Reflector	LUX	44200	4210	1720
		FC	4100	391	160
3200K	Light Base	LUX	8130	1330	594
		FC	772	123	55
	Reflector	LUX	46300	420	1800
		FC	4310	411	167
4300K	Light Base	LUX	8840	1420	636
		FC	822	132	59
	Reflector	LUX	50100	4760	1940
		FC	4650	422	180
5600K	Light Base	LUX	9430	1480	666
		FC	876	138	62
	Reflector	LUX	52700	5020	1950
		FC	4900	467	181
6500K	Light Base	LUX	9340	1510	686
		FC	877	140	64
	Reflector	LUX	54000	5100	2080
		FC	5010	474	193

★ The data is given from testing in a laboratory based on BHR45.

## Guangzhou Zhiying Technology Co., Ltd

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