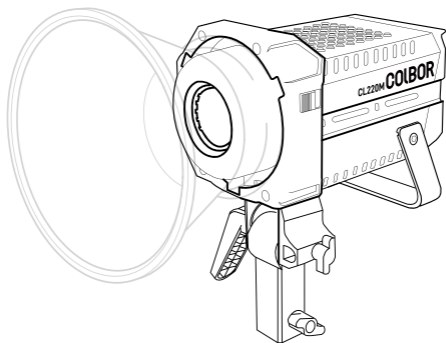# COLBOR

CL220M Video Light   User Manual

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

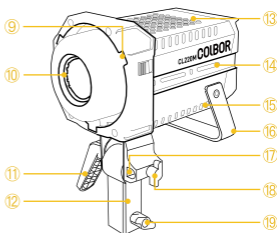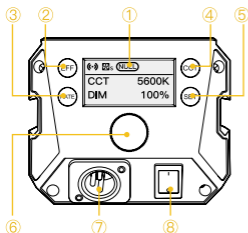# Caring For Your COLBOR Product

- 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:
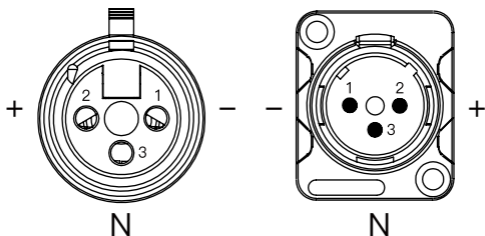
Product Instructions

① LED Display Screen
② EFF Mode Button
③ EFF Rate Option Button
④ Color Temperature Mode Button
⑤ Setting Button
⑥ Brightness Control/Setting Menu Knob
⑦ DC 48V Power Port
⑧ Power Button
⑨ Bowens Mount
⑩ COB Lamp Beads

⑪ Lamp Angle Adjustment Locking Grip
⑫ Lamp Holder
⑬ Air Outlet
⑭ NATO Slideway
⑮ Air Inlet
⑯ Lamp Handle
⑰ Umbrella Hole
⑱ Umbrella Hole Screw
⑲ Lamp Holder 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.
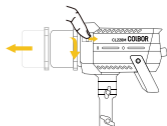

2. Installation and removal of reflector

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".
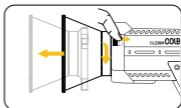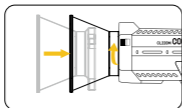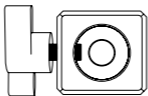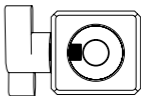
3. Installation and fixation of light

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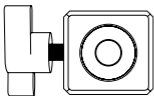
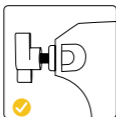Screw out, the inner wall of the bracket without any shelter

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

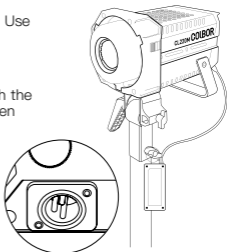### 5. Power Connection

(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.
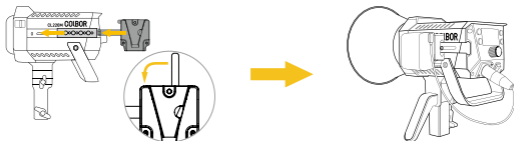

Note:

* For one 14.8V battery powering, the maximum brightness is 60% 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
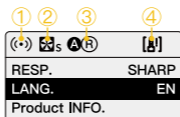
① APP Connection Status Icon	
• ⟨·⟩ ⟨⟨·⟩⟩	After selecting wireless connection in Settings menu, the icon will be displayed dynamically.
⟨⟨·⟩⟩	The icon is always on to indicate successful pairing with mobile APP. The icon disappears to indicate mobile APP pairing failure, or the product is unpaired.
② 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.
Ⓐ T	A stands for Group A. There are fifteen groups (A~O). T stands for Tx.
Ⓐ R	A stands for Group A. There are fifteen groups (A~O). R stands for Rx.
Ⓐ TR	A stands for Group A. There are fifteen groups (A~O). TR stands for TxRx.
④ Product Overheated Alarm Icon	
[å!]	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)
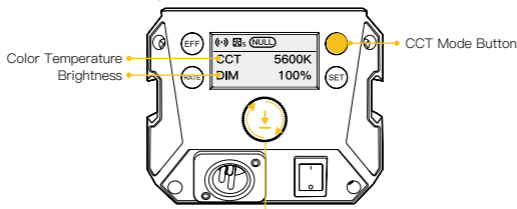
Color Temperature

Brightness
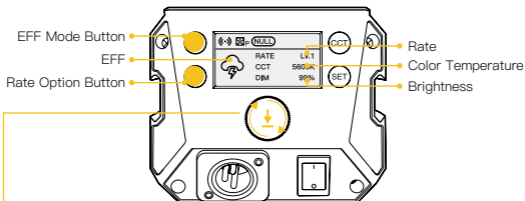
CCT Mode Button

CCT 5600K
DIM 100%

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 between 0%, 25%, 50%, 75%, and 100%

★ Turning 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)

EFF Mode Button

EFF

Rate Option Button

Rate

Color Temperature

Brightness

RATE LV.1
CCT 5600K
DIM 90%

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%
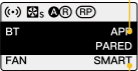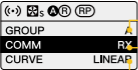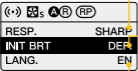
Light Effect Mode (EFF) Button

↓ Press to switch light effect: Pulsing → Explosion → Faulty Bulb → Welding → Strobe → Lightning → S.O.S

EFF	Pulsing	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K	Strobe	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K
	Explosion	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K	Lightning	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K
	Faulty Bulb	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K	S.O.S	RATE: LOCK DIM: 0%–100% CCT: 5600K
	Welding	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 5600K		

4. Setting

1. Short press the setting button to enter settings menu.

2. Turn the 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

<table><tr><td>(•) 🎛️s Ⓐ Ⓡ ℝℙ</td></tr><tr><td>**INIT** BRT DEF.</td></tr><tr><td>LANG. EN</td></tr><tr><td>Product **I**NFO.</td></tr><tr><td>HW.VER. 1.01</td></tr><tr><td>FMW.VER. 1.01</td></tr><tr><td>CS—VER. 1.01</td></tr><tr><td>B42E99939BB6</td></tr></table>	Product INFO.	Short press the setting botton to enter the production information interface. Press the setting botton again to go back to settings menu. ① Hardware Version ② Firmware Version ③ Protocol Version ④ MAC Address

5. APP Connection & Light Control

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

CL220M Pairing:

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

(•) 🎛️s Ⓐ Ⓡ ℝℙ	
BT	APP
	UNPARED
FAN	SMART

2. Open the APP and click the " + " on the upper right, then click the scene one and click the + on the upper right. Showing CL220M means successfully pairing.
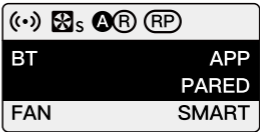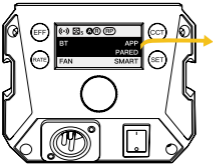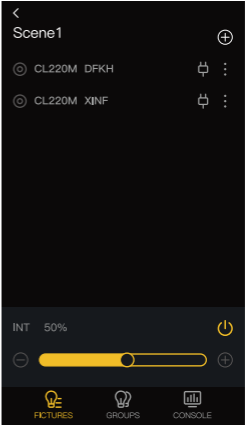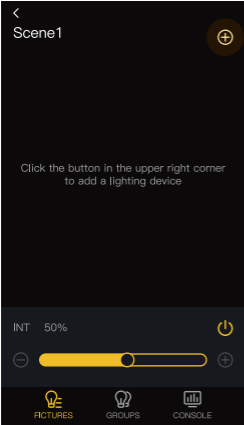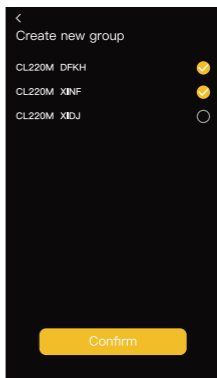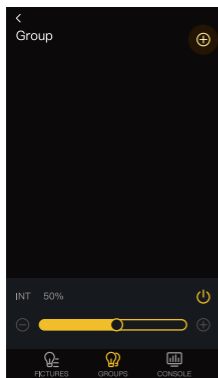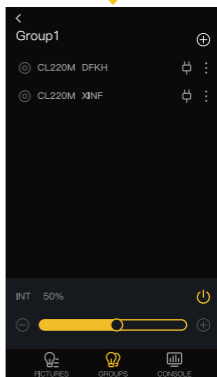
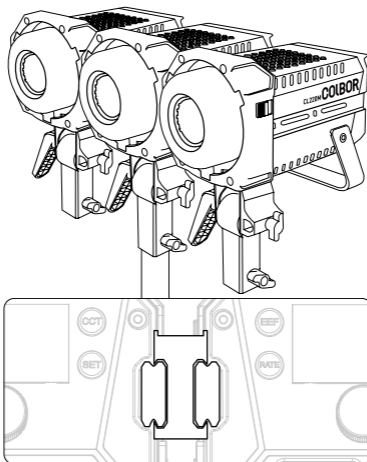3. Click the CL220M for control.
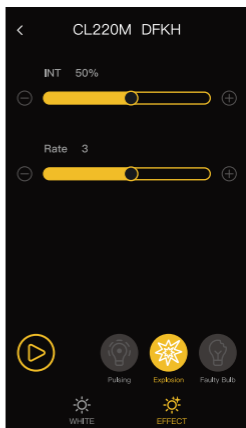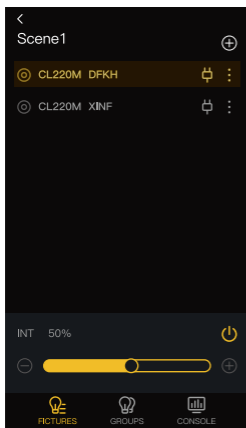
CL220M Group Control:

1. After successfully pairing the CL220M, 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	96+
Color Temperature Range	5600K (±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	1.57kg
Operating Temperature	−10~40℃

Package List

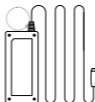CL220M Video
Light x1
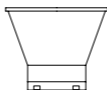
Reflector (Bowens Mount) x1
(not included in CL220M Lite)
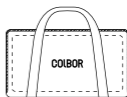
Carrying Bag x1
(not included in
CL220M Lite)
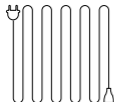
3m Plum Tail Cable
x1

Power Adapter (with
Wire Lanyard) x1

Warranty Card x1

NB3.58 (Optional)
x1

COB Cover x1

★ Power adapters may vary according to sales region.

Form 1

Illumination

CCT			1m	3m	5m
5600K	Light Base	LUX	10800	1650	733
		FC	1000	153	68
	Reflector	LUX	58100	5610	2340
		FC	5400	522	218

★ The data is given from testing in a laboratory.

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 defection 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.