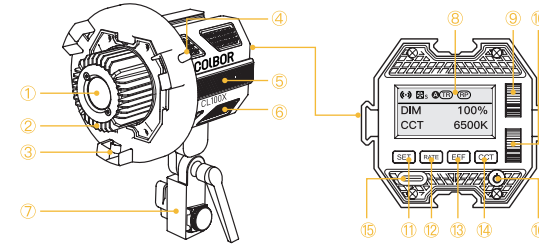# COLBOR

CL100X Video Light — User Manual

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

Safety Instructions

- Please read and fully understand this manual before using the product.
- Please remove the COB protective film to avoid damage by overheat before first use.
- Please remove the COB protective cover to avoid damage by overheat before every use.
- Do not use the product under moist environment or with wet hands. Do not allow the product to be splashed or soaked in water.
- Keep the product away from corrosive chemicals and liquid to avoid damage.
- Keep the product out of children's reach during use. Do not leave the product unattended.
- When the product is working, the COB and heat sink will produce high temperature. Do not block, turn upside down and touch with hands.
- To ensure the service life, the cooling system still runs for a while after shutdown until the COB is below 45℃.
- Please disconnect the power supply and put away the power cord when it is not in use.
- During use, arrange the power cord in order to avoid tripping and cutting off the power or damaging the product.
- Let the product cool completely before storage. Remove the power cable from the product and put it in the corresponding position of carrying bag after cooling down.
- Do not disassemble the product by yourself, otherwise the warranty will be invalid. If any fault occurs, please refer it to an authorized technician for inspection or maintenance.
- Recommend to use the original parts of COLBOR. If the product is damaged due to the use of the non-original parts, it is not included in the warranty of our products.
- Drop or external impact may cause product failure. Artificial damage is not covered by warranty.
- COLBOR reserves the right of final interpretation of the products. The product design and specifications are subject to change without notice.
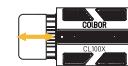
Product Instructions

① COB Bead
② Bead Radiator (Air Outlet)
③ Bowen Mount Adaptor (BAR1)
④ Ejector Pin
⑤ Rail
⑥ Air Vent (Air Intake)
⑦ Quick-mount Holder (EC Stand)
⑧ LCD Display Screen
⑨ Brightness Control Wheel
⑩ Color Temperature Control Wheel
⑪ Setting (SET) Button
⑫ Light Effect Frequency (RATE) Button
⑬ Light Effect Mode (EFF) Button
⑭ Color Temperature Mode (CCT) Button
⑮ Type–C Power Input
⑯ Switch Button

Installation & Disassembly

1. Remove COB protective cover

Hold the COB protective cover and pull it out as the arrow shows.
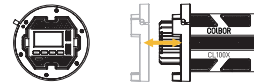★ Note: Make sure remove the cover before every use to avoid heat damage.

2. Install adapter and reflector

① Align the inner frame of adapter ring with the outer frame of light, and push the adapter ring into the light from the head. Fasten two marbles on the adapter ring to the chute.
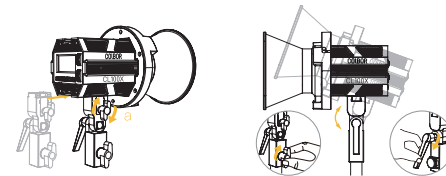When disassembling, push the adapter ring towards the head of the light.

② Align the reflector with the adapter ring and insert it. The ejector pin is pinched by reflector. Rotate the reflector tightly clockwise and the ejector pin springs back.

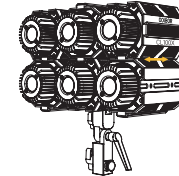When disassembling, push the ejector pin and rotate the reflector anticlockwise.

3. Fixing of the video light

① Slide the quick-mount holder into the chute under the light and rotate the knob a tightly.
② Install tripod into the quick-mount holder and rotate the knob b tightly.
③ Adjust the light to the desired angle and rotate the knob c tightly.

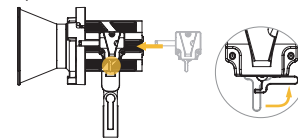### 4. Multi-light connection & disassembly

Slide the rail of one light into the chute of the other until the pins inlay.
When disconnecting, slide the light out of the chute.

5. Install VM2

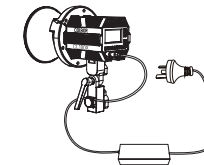Slide VM2 into the chute of light, determine the fixed position and adjust the lever to lock.
When removing, adjust the level to unlock and slide out of the light.

6. Power supply

(1) Fixing power cables
Screw the power cable fixing clip, put the cable into the groove, and then align the bracket with the tightening screw.
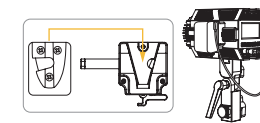
(2)DC power supply
Connect power adapter with Type–C power input and turn on.

(3) Battery power supply
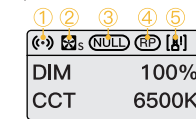Turn on power after installing V–mount and battery.

★ Power adapter (PA120) and V–port battery power cable (VC50) are only for powering CL100X and CL100XM, not for other electronic devices. If any damage caused by the wrong use, it is not within our warranty.

Operation Instructions

1. Before using the product for the first time, please be sure to tear off the protective film in front of the COB bead.
2. Power Supply: connect the power cord with the power adapter, plug the connector of adapter into the fixture's power input, then attach to an electricity supply.
3. Function: long press the power button, then the power button lights up. The product enters operation interface.
(Factory default mode: CCT)
4. Power Off: press the power button.
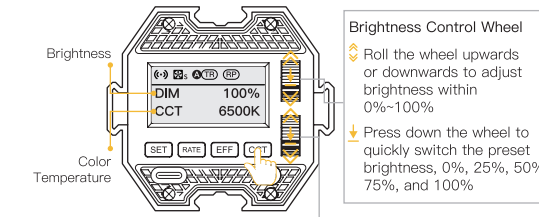
Status Icon Description

①②③④⑤

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 the brightness should be kept below 80% in case of overheating protection.
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 15 groups (A–O). T stands for Tx.
A R	A stands for Group A. There are 15 groups (A–O). R stands for Rx.
A TR	A stands for Group A. There are 15 groups (A–O). TR stands for TxRx.
④ Repeater Status Icon	
RP	If the icon is always on, it means that Repeater function is turned on, and if the icon disappears, it means the function is turned off.
⑤ 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.

CCT Mode (Short press CCT Mode Button to enter)

Brightness Control Wheel
↻ Roll the wheel upwards or downwards to adjust brightness within 0%–100%
↓ Press down the wheel to quickly switch the preset brightness, 0%, 25%, 50%, 75%, and 100%

Color Temperature Control Wheel
↻ Roll the wheel upwards or downwards to adjust color temperature within 2700K–6500K
↓ Press down the wheel to quickly switch the preset color temperature, 2700K, 3200K, 4000K, 5600K, and 6500K

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

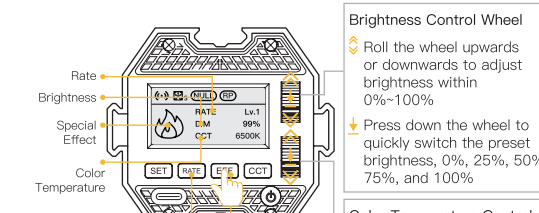## EFF Mode (Short press EFF Mode Button to enter)

Brightness Control Wheel
↻ Roll the wheel upwards or downwards to adjust brightness within 0%–100%
↓ Press down the wheel to quickly switch the preset brightness, 0%, 25%, 50%, 75%, and 100%

Color Temperature Control Wheel
↻ Roll the wheel upwards or downwards to adjust color temperature within 2700K–6500K
↓ Press down the wheel to quickly switch the preset color temperature, 2700K, 3200K, 4000K, 5600K, and 6500K

Light Effect Frequency (RATE) Button
↓ Short press to switch the effect, Lv.1–Lv.5, and Lv.5 for the fast.

Light Effect Mode (EFF) Button
↓ Press to switch light effect:
Fire → CCT Chase → Pulsing → TV → Explosion → Faulty Bulb → Welding → Strobe → Lightning → SOS

Settings / Effects

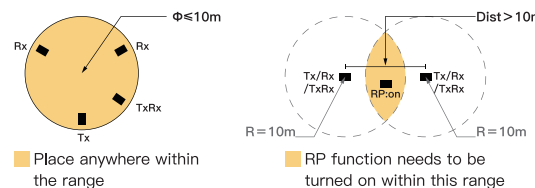| EFF		RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K	Faulty Bulb	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	Fire			
	CCT Chase	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: LOCK	Welding	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
	Pulsing	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K	Strobe	RATE: Lv.1 – Lv.5 DIM: 0%–100% CCT: 2700K–6500K
EFF	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	SOS	RATE: LOCK DIM: 0%–100% CCT: 2700K–6500K

Settings

1. Short press Settings Button to enter settings menu.
2. Roll the Brightness Control Wheel to choose setting.
3. Roll the Color Temperature Control Wheel to adjust corresponding setting (Wireless connection adjust need short press).

	Settings	Options
	Wireless Connection	RESET
Fan Mode		SMART/ QUIET (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.)
	Group	NULL/ A–O (NULL by default)
	Communication	TX/ RX/ TXRX (TXRX by default)
	Repeater	ON/ OFF (OFF by default)
	Curve	LINEAR (L.CURVE, E.CURVE, S.CURVE will be available soon through upgrade.)

	Response	SHARP / SMOOTH (SMOOTH by default)
	Initial brightness	0%–100%, Default
	Language	EN/ CN
	Product INFO.	Short press the Color Temperature Control Wheel to enter the production information interface. Long press the Color Temperature Control Wheel to settings menu. ① Hardware Version ② Firmware Version ③ Protocol Version ④ MAC Address

★ When Group function is on, if the product is operated after a period of time, it takes time to connect between products, so there will be millisecond delay.

★ The effective distance of transmitter(TX), receiver (RX), transmitter & receiver (TXRX) is 10 meters.

★ Repeater (RP) function is the auxiliary function to enhance the signal of light control and the effective distance of light control. However, too many uses of RP function can affect product response time due to environmental factors.

★ If the distance between lights in a group is more than 10 meter, it is recommended to set a light in the middle as a signal RP point to increase the control distance. In addition, in the state of multi–light connection, the response of the product can be effectively improved when the RP function of one light is turned on if connected lights are more than five, the RP function of two lights are turned on if there are more than ten, and so on.

★ Restore factory settings: long press two wheels together for 5 seconds and the product reboots to restore the factory default mode.
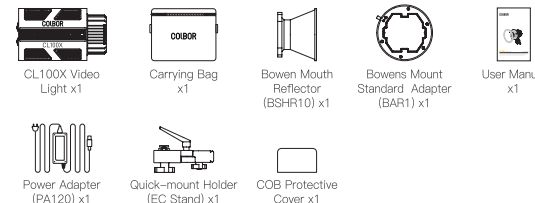

■ Place anywhere within the range
■ RP function needs to be turned on within this range

★ About Product

1. After the test, the product with assembly structure has bearing capacity of 4kg. Customers need to use according to actual conditions.

2. It is recommended to use the original power adapter for power supply. The malfunction will not be included in the warranty if use other equipment to power the product.

3. When more than five lights are assembled into a light matrix, turning on the RP function in one of them to provide better control stability. If the number of lights reaches 10, enable the RP function for two of them, and so on.

Specifications

Color Rendering Index	97+
Beam Angle	≈∠120° Reflector ≈∠15°
Color Temperature Range	2700K–6500K(±200)
Illumination	See the Attachment 1.
COB Output Power	> 100W
Rated Power	120W(Max Power)
Light Working Voltage	DC 24V 5A
Cooling Mode	SMART/QUIET
Connector	Type–C
Body Material	Aluminum Alloy+ABS
Light Dimension (mm)	152*80*90 (Light Base Not Included)
Weight	Light: 800g Light Base: 160g
Operating Environment Temperature	–10~50℃

Packaging List

CL100X Video Light x1 | Carrying Bag x1 | Bowen Mouth Reflector (BSHR10) x1 | Bowens Mount Standard Adapter (BAR1) x1 | User Manual x1

Power Adapter (PA120) x1 | Quick–mount Holder (EC Stand) x1 | COB Protective Cover x1

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.

Attachment 1

CCT			1m	3m	5m
				Illumination	
2700K	Light Base	LUX	2910	463	217
		FC	269	43	21
	Reflector	LUX	19205	1829	722
		FC	1783	170	67
3200K	Light Base	LUX	3140	501	237
		FC	292	47	22
	Reflector	LUX	21045	2001	787
		FC	1955	186	74
4300K	Light Base	LUX	3462	555	262
		FC	322	52	24
	Reflector	LUX	23460	2243	876
		FC	2185	208	82
5600K	Light Base	LUX	3680	590	278
		FC	342	55	26
	Reflector	LUX	25070	2392	932
		FC	2323	222	86
6500K	Light Base	LUX	3749	607	284
		FC	348	56	26
	Reflector	LUX	25645	2450	957
		FC	2381	228	89

★ The data is given from testing in a laboratory.

More functions of COLBOR

https://www.colborlight.com/pages/colbor-apps-download

Scan the above QR code to the webpage and download the relevant apps, so that you can be benefit with more functions such as remote light control and firmware upgrade.