CKC

AK Storm Bar

www.ckclighting.com

Before carrying out any installation, maintenance, or cleaning of the lighting fixtures, please confirm that the power has been cut off! Before using this fixture, please read this manual. Our company reserves the right to change product design and specifications without prior notice.

CONTENTS

★ Statement ★

■ This manual contains important information on safe use and installation. Please read it carefully and follow the requirements for operation and installation. Please keep this manual properly;

■ The equipment has good performance and complete packaging when it leaves the factory. The operator should strictly follow the warning items and operating instructions stated in the manual. Any malfunction or damage caused by misuse or neglect of the manual is not within the scope of our company's responsibility and warranty;

■ The relevant information in this manual is for reference only. All lighting products are subject to the actual product. Any changes will not be notified separately, and our company reserves the right of final interpretation.

1. Security Warning Information

Attention！
Please read the safety requirements information in this section carefully before installing, powering on, operating, or repairing the lighting fixtures.

● This product is for professional use and is not suitable for other purposes;

● After receiving the lighting fixtures, please check if the packaging is complete and unpack to check if the equipment has been damaged due to transportation. If there is any damage caused by transportation, please do not use this lamp and contact local technicians or manufacturers as soon as possible;

● When transporting again, please use the original packaging materials;

● If there is obvious damage to the machine casing, it should be replaced in a timely manner;

● When hanging lamps, it is necessary to verify that the hanging equipment can withstand more than 6 times the weight of the lamp. After installation, it is necessary to verify that the lamp cover and installation buckle are secure and undamaged. At the same time, a safety rope should be used as an auxiliary safety for the lamp and fixed on the truss;

● The light source inside this luminaire should be replaced by the manufacturer, its service agent, or a similarly qualified person;

● If you have any other questions about how to safely operate the equipment, please contact our technical personnel or call our service hotline;

● This product has a protection level of IP65 and can be used both indoors and outdoors.

● Lighting fixtures should be kept clean and avoid prolonged use in overheated or dusty environments to prevent contact with chemical liquids;

● When using the product, attention should be paid to avoiding serious or fatal injuries caused by fire, heat, electrical shock, and ultraviolet radiation. Before powering on or installing, read the instruction manual first. Follow the safety precautions for operation and pay attention to the warning signs on the instructions and equipment;

● Only professionals are allowed to install, operate, and maintain lighting fixtures, and strictly follow the procedures stated in the operating instructions.

● The eyes cannot directly look at the luminous object;

● Do not connect this device to any dimmer;

● If visible damage occurs to the protective casing, lens, and display screen on the lighting fixture, it is considered as damage to the point of loss;

● Please do not place any filters or other items at the light outlet, and do not replace non original parts;

● The minimum safe illumination distance of the lamp is 1m.

● Before installation, please confirm that the power supply voltage used matches the voltage indicated on the light fixture. Each lighting fixture should be properly grounded and electrically installed according to relevant standards;

● Please disconnect the power before repairing or cleaning the equipment;

● During the operation of the lighting fixtures, touching the wires is prohibited to prevent electric shock;

● If the external soft cable or wire of this lamp is damaged, the wire should be replaced by the manufacturer, its agent, or a similarly qualified person to avoid danger;

● Avoid flammable liquids, water, or metal conductors from entering the interior of the lamp to prevent electric shock or fire. If any foreign objects enter the lamp, immediately cut off the power supply;

● When multiple lamps are operated in series, the signal lines can be connected in multiple ways, but the power supply must be connected separately.

● The lighting fixtures work normally at -20 ℃ to 45 ℃ . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;

● The maximum surface temperature of the lamp during operation can reach 79 ℃ , please do not touch it with bare hands.

● The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;

● Do not install the lighting fixtures directly on flammable objects;

● The minimum distance between all outer surfaces of the lamp and combustible materials is 0.5m.

www.ckclighting.com

## 2. Product Introduction

2.1 Exterior dimensions of lighting fixtures

1007 × 180 × 190 mm

1000
135
80
619
549
107
1007
687
90
190
180
192
95
118
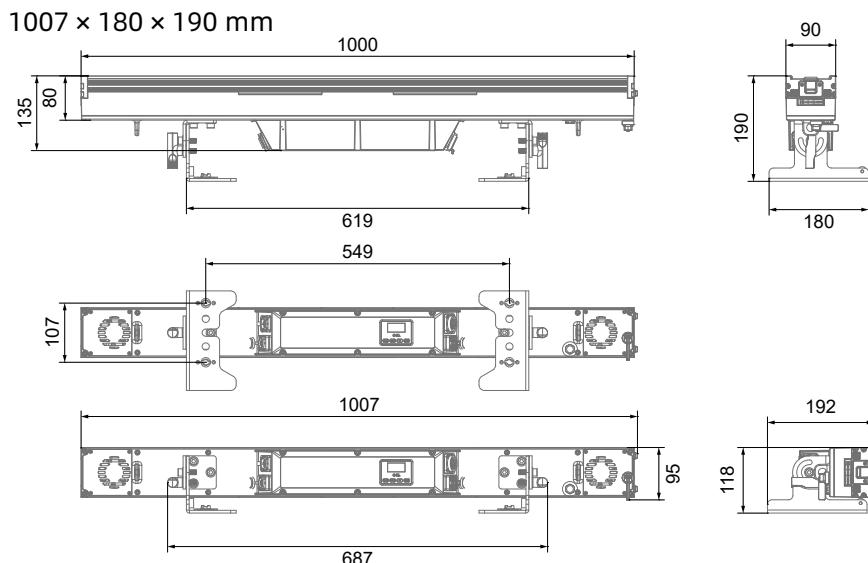
2.2 Packaging accessories

Name	QTY	
Omega bracket	2	PCS
Clamp	2	PCS
Safety cable	1	PCS
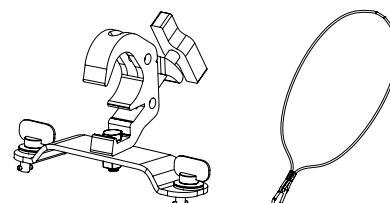
3. Main technical parameters of the equipment

Product execution standards：GB7000.1-2023,GB7000.217-2023， Q/YF-2017

● Electrical parameter

Rated input voltage：AC 100V-240V~ 50Hz/60Hz

	Power	Power factor	Input Current
Rated power	350W	0.99F	1.58A 220V
Strobe power	800W	0.98F	3.57A 220V

● Source lifespan

＞ 20000 hours

● Optical system

Source： 198 × 3W CW LED + 960 × 0.5W RGB LED

Output luminous flux：15200 Lm

Beam angle：X/77° | Y/59°（RGB）   X/85° | Y/19°（CW）

Field angle：X/118° | Y/103°（RGB）   X/117° | Y/66°（CW）

CCT：3000 K

● Control and programming

Control channel：15CH / 80CH / 137CH
Protocol：DMX512, RDM
Data connect：3 pin signal in/out

● Illumination draw

CW
117°
3   5   8

| Lux | 3940 | 1530 | 437 |
| Distance(m) | 9.79 | 16.32 | 26.11 |

RGB
118°
3   5   8

| Lux | 730 | 312 | 70 |
| Distance(m) | 9.99 | 16.64 | 26.63 |
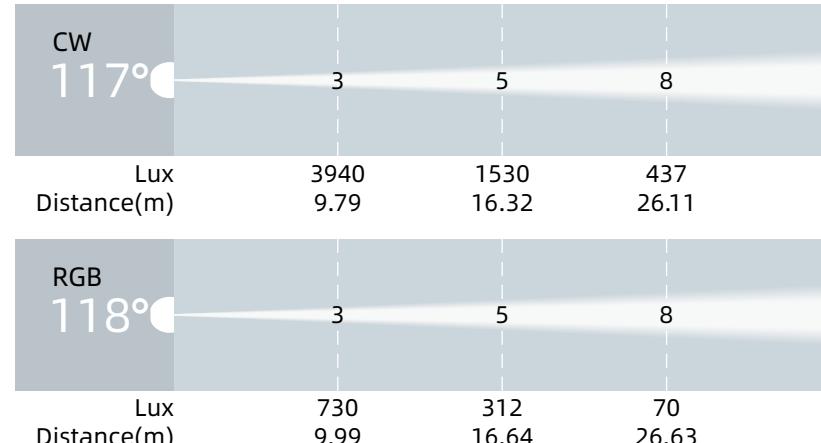
● Other effect function

Fast electronic strobe：1~25Hz   Built in effects: 6 modes
Dimming Curve：4

● Other features and functions

Weight：10 KG

4. Packaging and transportation

4.1 Disassemble packaging

⚠ Notice：After receiving the fixture, please unpack and check for any damage caused by transportation. If there is any damage caused by transportation, please do not use this fixture and contact the local technical personnel or manufacturer as soon as possible.

4.2 Equipment packaging

1). Disconnect the power supply before packaging the lighting fixtures to allow them to cool completely;
2). Flight cases can only be stacked in two layers and are not allowed to be reversed.

5. Installation Requirements Explanation

5.1 Clamp install

The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.

Safety cable   Clamp
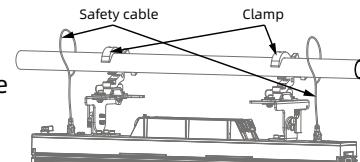
⚠️ **Waining！**

The clamp is installed on the handle. Insert the clamp into the handle mounting hole horizontally and tighten it with bolts (the shape of clamp shall be subject to the actual object).

Quick lock and clamp install

Install safety cable

313
191
135
80

241
119
90

1000

1000
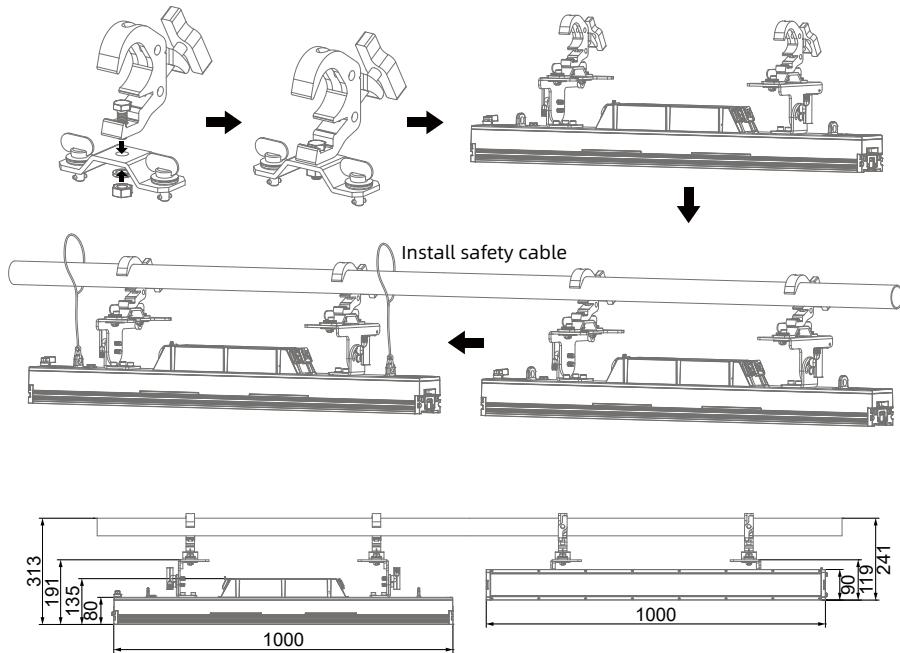
5.2 Equipment installation

1). Before installation, it is necessary to verify that the lamp hook and safety rope are not damaged, and that the installation object can withstand 6 times the total weight of the lamp and cable accessories;

2). Install the quick lock clamp on the base of the lamp body. Insert the clamp horizontally into the mounting hole of the base, rotate it clockwise 1/4 turn to lock it, and install the second clamp using the same method (the shape of the clamp should be based on the actual product).

5.3 Hanging Installation Diagram
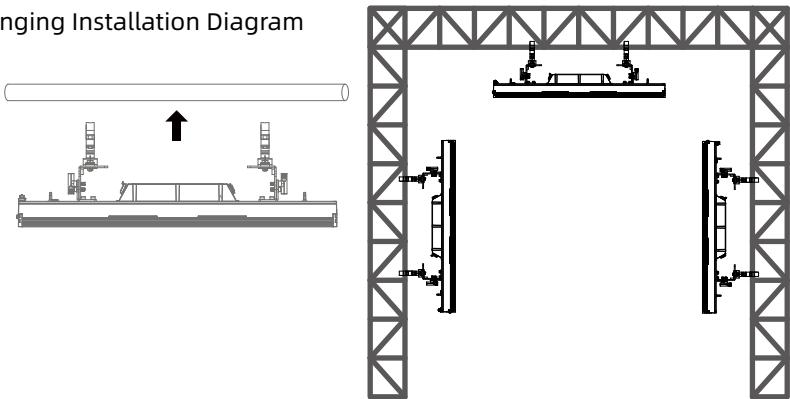
6. Power、Signal connect

6.1 Power and signal socket

1、Power IN

2、DMX IN

3、DMX OUT

4、Power OUT

6.2 Power connect

1 2   3 4
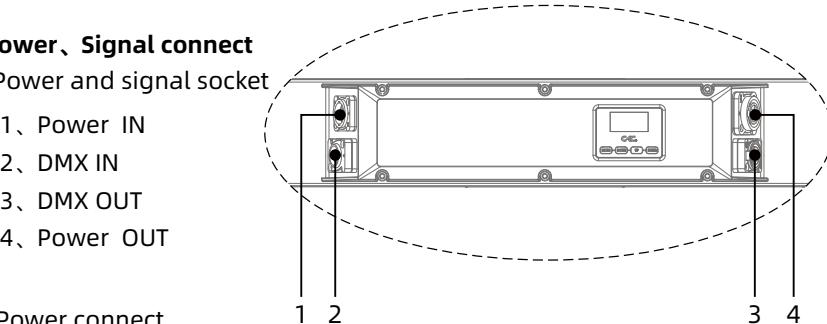
Connection method:

L(live wire) - brown wire

E(Ground wire) - yellow/green dual color line

N(Zero Line) - Blue Line
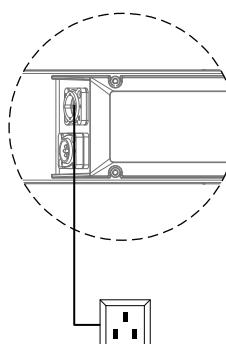
When connecting the power supply, please note that the voltage and frequency of the power supply must match the voltage and frequency marked on the light fixture. When multiple fixtures are used simultaneously, it is recommended to connect the power supply of each fixture separately, so that each fixture can be individually controlled for power on/off.

⚠️ **Attention:** When connecting the power supply, the ground wire (yellow/green dual color wire) must be safely grounded and comply with all relevant electrical installation standards.

Power In

This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 2 products at 220V

Waining !

- ▪ Do not connect too many fixtures or overload a single power cord;
- ▪ Do not use power cords with damaged insulation layers, and do not place power cords on other wires;
- ▪ When the fixture is not in use or cleaned, please unplug the power cord; Do not forcefully unplug or drag the power cord directly.

6.3 Signal connect

3-PIN XLR SOCKET	
DMX OUT DMX IN	1:Ground 2: Signal (-) 3: Signal (+)

5-PIN XLR SOCKET	
DMX OUT DMX IN	1:Ground 2: Signal (-) 3: Signal (+) 4: N.A. 5: N.A.
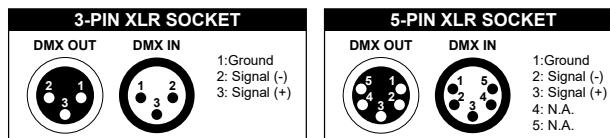
The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.

Controler   DMX IN

DMX IN

DMX OUT

DMX IN

DMX OUT

DMX IN

DMX OUT   Terminal plug
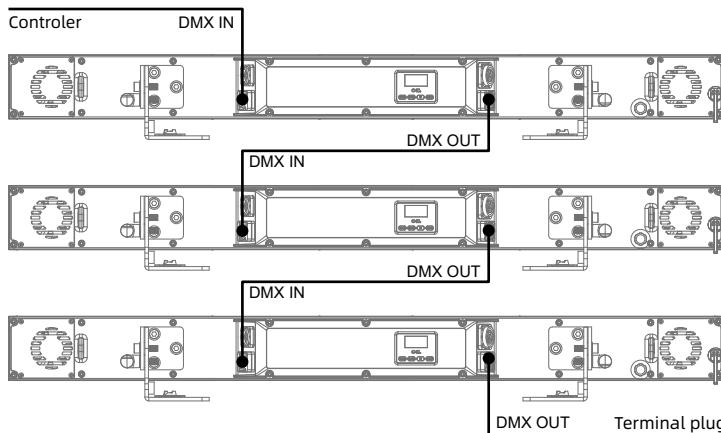
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 pin socket of each connected lamp output. (Weld a 4/1W, 120 Ω resistor between the 2 and 3/5 pins of a 3 or 5 core pin XLR plug).

3P

120Ω

2
1   3

PIN 2   PIN 3

5P

120Ω

3
2   4
1   5

PIN 2   PIN 3
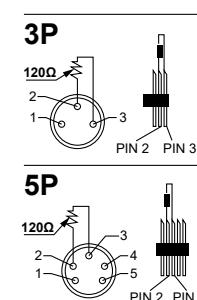
7. Control panel

7.1 Panel Introduction

CKC

MODE — DOWN — UP — ENTER
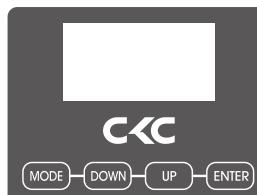
● Adopting OLED display screen;

● Press the MODE key to view or modify fixture function settings, and press UP and DOWN;
● Press the ENTER key to confirm your selected function menu, which will take you to the corresponding sub menu in the menu. Each menu item represents a specific function of the lighting fixture (as shown in the table below);

● Press the ENTER key to save your modifications or enter a submenu, and press the UP or DOWN key to modify values (increase or decrease values);
● Press the MODE key to return to the previous menu or exit.

7.2、System menu

Note: The gray color block is the default setting value

	Software Update Please Wait... CKC SOFTWARE V1.01		
Menu Option	**Level 1**	**Level 2**
DMX Settings	DMX Address	001 - 512
	DMX Channel Mode	15CH
		80CH
		137CH
	No DMX Status	Hold Last
		Fade to black
	Master	ON / OFF
	Slave	ON / OFF
	Dim Modes	Standard
		Stage
		TV
		Architectural
		Theatre
		Stage 2

www.ckclighting.com

Personality	Dim Curves	Linear	
		Square	
		Square Inverse	
		S-Curve	
	LED Refresh Rate	900~1500, 2500, 4000, 5000, 6000, 10KHz, 15KHz, 20KHz, 25KHz（1200Hz）	
	Display	Screen Saver Delay 1-10	
		Screen Lock OFF - 10 minutes Default 30S	
		Rotate Display 180° YES / NO	
	FAN Speed	Auto/Low/High	
	FIFP	OFF/ON	
	Service Password: 050	Calibration	ALL Red 000-255
			ALL Green 000-255
			ALL Blue 000-255
			ALL White 000-255
			Red 1 000-255
			Green 1 000-255
			Blue 1 000-255
			....
			Red 18 000-255
			Green 18 000-255
			Blue 18 000-255
			White 1 000-255
			....
			White 18 000-255
		Factory Restore YES / NO	
		Edit RDM UID xxxxx 0xxxxx	

Manual Control	Dimmer		000-255
	Dimmer Fine		000-255
	Strobe		000-255
	Red		000-255
	Green		000-255
	Blue		000-255
	White		000-255
Information	Fixture Life Time		Power On Time xxxxxx Hours
	Fixture Last Run Time		Power On TimAbleRes xxxxxx Hours
			Power On Time Reset Passcode=038
	Total Lamp Hours		xxxxxx Hours
	Fixture Temp	LED'S	Current xxx F / xxx C
			Max Resettable xxx F / xxx C
			Max Not Resettable xxx F / xxx C
			LastMaxTempReset
	DMX Values		Dimmer xxx
			Strobe xxx
			...
	Product ID's		RDM UID
	Error Logs		Fixture Errors
			Reset Error Log YES / NO
	Software Version		1U :V1.01 2U1:V1.01 2U2:V1.01

8. DMX channel table:

15Ch	80Ch	137Ch	Value	Function
1			0-255	All Red
2			0-255	All Green
3			0-255	All Blue
4			0-255	All White
	1	1	0-255	Red1
	2	2	0-255	Green1
	3	3	0-255	Blue1
			0-255	RGB...
	52	52	0-255	Red18
	53	53	0-255	Green18
	54	54	0-255	Blue18
			0-255	RGB...
		106	0-255	Red36
		107	0-255	Green36
		108	0-255	Blue36
	55	109	0-255	CW1
			0-255	CW...
	72	126	0-255	CW18
9	77	131		**Shutter, Strobe RGB:**
			0-31	NO function(LED OFF)
			32-63	No function (LED ON)
			64-95	Strobe effect slow to fast
			96-127	No function (LED ON)
			128-159	Pulse-effect in sequences
			160-191	No function (LED ON)
			192-223	Random strobe effect slow to fast
			224-255	No function (LED ON)
10	78	132		**Shutter, Strobe CW:**
			0-31	NO function(LED OFF)
			32-63	No function (LED ON)
			64-95	Strobe effect slow to fast
			96-127	No function (LED ON)
			128-159	Pulse-effect in sequences
			160-191	No function (LED ON)
			192-223	Random strobe effect slow to fast
			224-255	No function (LED ON)
5	73	127		**Dimmer RGB:**
			0-255	Intensity 0 to 100%
6	74	128		**Dimmer Fine:**
			0-255	Intensity 0 to 100%
7	75	129		**Dimmer CW:**
			0-255	Intensity 0 to 100%
8	76	130		**Dimmer Fine:**
			0-255	Intensity 0 to 100%
11		133		**Auto Program**
			0-15	Off
			16-22	Auto Program 1
			23-29	Auto Program 2
			30-36	Auto Program 3
			37-43	Auto Program 4
			44-50	Auto Program 5
			51-57	Auto Program 6
			58-64	Auto Program 7
			65-71	Auto Program 8
			72-78	Auto Program 9
			79-85	Auto Program 10
			86-92	Auto Program 11
			93-99	Auto Program 12
			100-106	Auto Program 13
			107-113	Auto Program 14
			114-120	Auto Program 15
			121-127	Auto Program 16
			128-134	Auto Program 17
			135-141	Auto Program 18
			142-148	Auto Program 19
			149-155	Auto Program 20
			156-161	Auto Program 21
			162-169	Auto Program 22
			170-176	Auto Program 23
			177-183	Random Program
			184-255	No Function
12		134	0-255	Programs Speed
13		135	0-255	Program Fade

www.ckclighting.com

			Dim Modes	
14	79	136	0-20	Standard
			21-40	Stage
			41-60	TV
			61-80	Architectural
			81-100	Theatre
			101-120	Stage 2
			121-255	Idle
15	80	137	Dim Curve	
			0-20	Dimmer Curve Linear (default)
			21-40	Dimmer Curve Square
			41-60	Dimmer Curve Inverse Square
			61-80	Dimmer Curve S-Curve
			81-82	FIFP OFF
			83-84	FIFP ON
			85-255	No Function

Block distribution map

80 Channel (RGB)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

80 Channel (W)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

137 Channel (RGB)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

137 Channel (W)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

9. Control circuit diagram
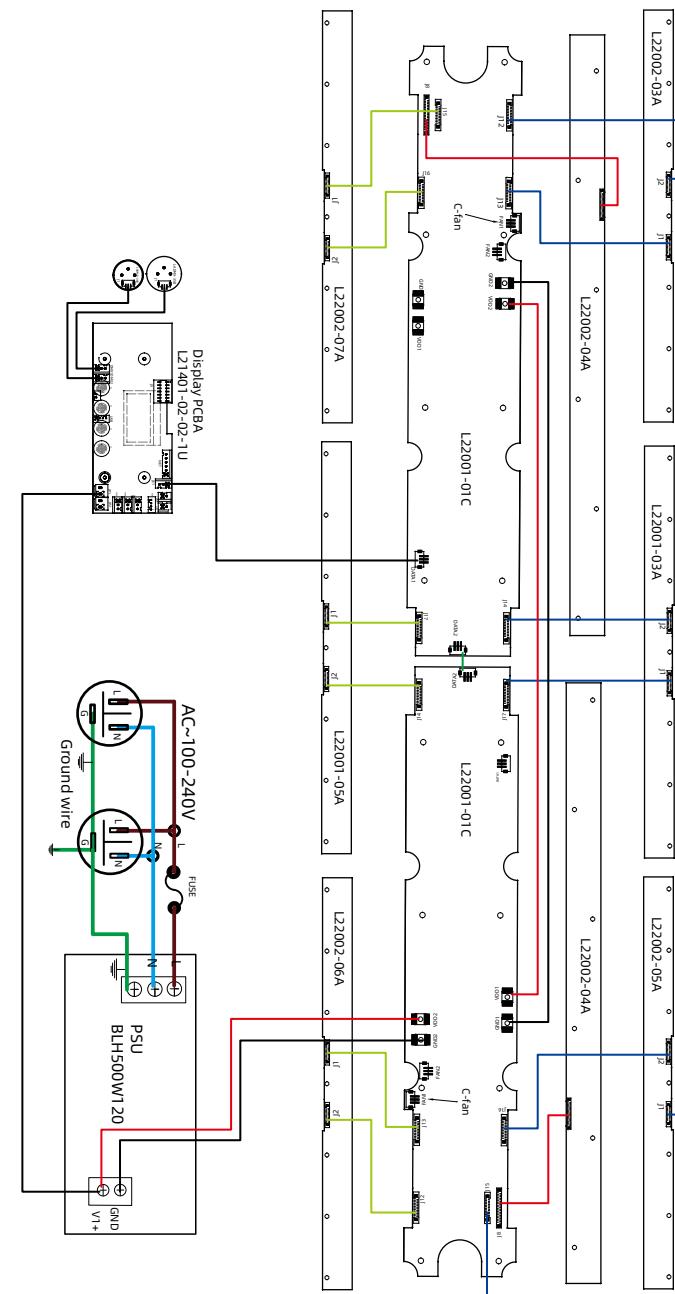
10. Regular maintenance

10.1 Cleaning and maintenance

Lighting fixtures require daily cleaning and maintenance, and their service life largely depends on the operating environment and standards. If you have any questions, please consult our technical engineers for advice. Maintenance and repair work not included in this book should be entrusted to our qualified technical engineers.

⚠ **Attention!** Damage caused by dust, e-liquid, or other reasons, as well as abnormal use, is not covered by the warranty.

⚠ **Waining !**
Before opening any lid, disconnect the power supply. Cleaning optical components requires gentle wiping as the coating surface is prone to scratching. Do not use damaging liquids or hard objects , as they may damage the plastic or coating surface.

● When the lens is cracked or otherwise damaged, it should be replaced in a timely manner;

● When the brightness significantly decreases, the LED may have reached its expiration date and should be replaced in a timely manner;

● When the fixture cannot start, please check if the fixture power fuse is blown. If it is blown, a fuse of the same specification must be used for installation;

● The fixture is equipped with a temperature protection device. When the temperature is too high, the protection device will automatically reduce power.

● When this situation occurs, please check whether the fan is running normally, whether the fan and fan mesh are clogged with dust, identify the fault and repair it before starting the fixture. Please note that only qualified technicians are allowed to carry out maintenance work;

● To maintain smooth movement of the focusing lens, it is recommended to lubricate the guide rail of the focusing lens every three months. Excellent and high-temperature resistant lubricating grease should be used, and excessive grease should not be used as it can easily dirty adjacent components.

10.2 Fault analysis and handling

Fault description	Analysis	Processing method
No action after power on	Check if the power switch is turned on	Turn on
	Check if the fuse is blown	Replace
	Check if the output of PSU is normal	Detecting voltage
	Check if poor contact in the internal circuit	Reconnect

Uncontrolled lighting fixtures	Check if the DMX signal cable is connected correctly (If there is no signal, the display screen will flash)	Reconnect or replace
	Check if the address code is correct and if the DMX mode of the lighting fixture matches the settings	Reconfirm
	The main control PCB is damaged	Replace
Not bright	LED aging or damage	Replace
	Power PCB malfunction	Check/ Replace
	Loose or poor contact of the circuit	Reconnect
	PSU malfunction	Replace
Automatically turn off or dim the lights	LED aging	Replace
	The temperature control switch is damaged	Replace
Weak light efficiency and uneven light spot	LED aging	Replace
	The optical mirror has accumulated dust or stains	Clean
	The optical mirror is damaged	Replace
Impure color	Weakening of light efficiency	Replace led PCB
	The color filter has accumulated dust or stains	Clean
	The color filter has been demolded or damaged	Replace

⚠ **Attention!** The above analysis is for abnormal reference only. Non professionals are not allowed to disassemble and repair the machine

Fan1   Fan2