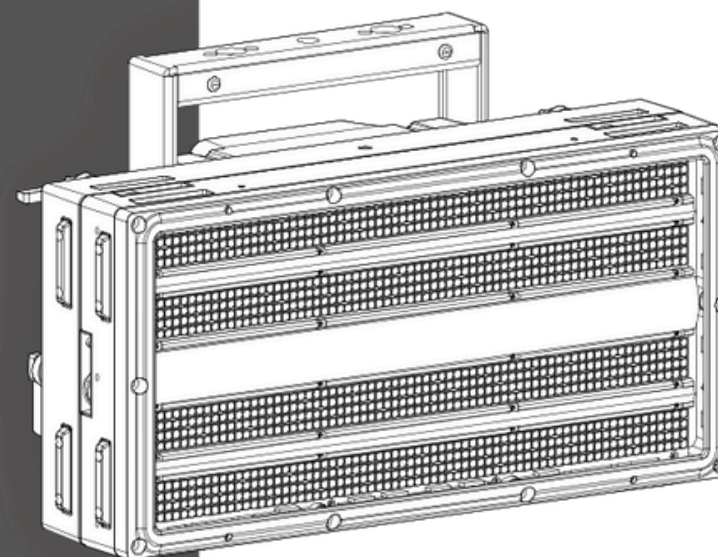


# CKC

## AK Blast



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Before installing, repairing, or cleaning the light fixture, please ensure that the power supply is disconnected. Kindly read this instruction manual prior to using the light fixture. The company retains the right to modify product design and specifications without prior notice.

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## ★ Statement ★

■ This manual contains important information about safe use and installation. Please read it carefully and follow the instructions for operation and installation. Keep this manual in a safe place for future reference.

■ The device is in good working condition and properly packaged when leaving the factory. Operators must strictly follow the warnings and operating instructions stated in the manual. Any malfunction or damage caused by misuse or failure to follow the manual is not covered by our company's responsibility or warranty.



■ The information in this manual is for reference only. All lighting products are subject to the actual items received. Any changes may be made without prior notice, and our company reserves the final right of interpretation.

### I. Safety Advisory Information



#### Notice!

Please thoroughly review the safety requirements outlined in this section prior to installing, powering on, operating, or repairing the lighting fixtures.

-  • This product is intended for professional use only and is not suitable for other purposes.
-  • After receiving the lighting fixture, please check whether the packaging is intact, then unpack it and inspect the device for any damage caused during transportation. If any transportation-related damage is found, do not use the fixture and contact local technicians or the manufacturer as soon as possible.
- If the product needs to be transported again, please use the original packaging materials.
- If the machine's outer casing is visibly damaged, it should be replaced promptly.
- When hanging the lighting fixture, you must ensure that the mounting structure can support more than six times the weight of the fixture. After installation, check that the lamp cover and mounting locks are secure and undamaged. Also, use a safety cable as additional protection and secure it to the truss.
- The light source inside this fixture should be replaced only by the manufacturer, its service agent, or a qualified professional.
- If you have any other questions regarding the safe operation of this device, please contact our technical staff or call the service hotline.
- This product has an IP65 protection rating and can be used both indoors and outdoors.



- The fixture should be kept clean. Avoid using it for long periods in excessively hot or dusty environments, and prevent it from coming into contact with chemical liquids.
- When using the product, be careful to avoid serious or fatal injuries caused by fire, heat, electric shock, or ultraviolet radiation. Read the manual before powering on or installing the device. Follow the recommended safety procedures and pay attention to the warning labels in the manual and on the equipment.
- Only qualified professionals are permitted to install, operate, or service the fixture, and they must strictly follow the procedures described in the operation manual.



- Do not look directly at the light source.
- Do not connect this device to any dimmer.
- If the protective housing, lens, or display screen of the fixture shows visible damage such as cracks or deep scratches that may compromise its functionality, they should be replaced.
- Do not place any filters or other objects in front of the light output, and do not replace parts with non-original components.
- The minimum safe illumination distance for the fixture is 1 meter.



- Before installation, confirm that the power supply voltage matches the voltage indicated on the fixture. Each fixture must be properly grounded, and electrical installation should be performed in accordance with relevant standards.
- Disconnect the power before servicing or cleaning the device.
- Do not touch the power cables while the fixture is operating to avoid electric shock.
- If the external flexible cable or cord of this fixture is damaged, it must be replaced by the manufacturer, its agent, or a similarly qualified person to avoid hazards.
- Prevent flammable liquids, water, or conductive materials such as metal from entering the fixture to avoid electric shock or fire. If any foreign objects enter the fixture, disconnect the power immediately.
- When multiple fixtures are linked for control, multiple signal cables may be connected, but each fixture must have its power supply connected separately.



- The fixture operates normally between 20°C and 45°C. When replacing any components or accessories inside the device, make sure the power is disconnected to prevent electric shock and injury.
- The surface temperature of the fixture can reach up to 64°C during operation. Do not touch it with bare hands.

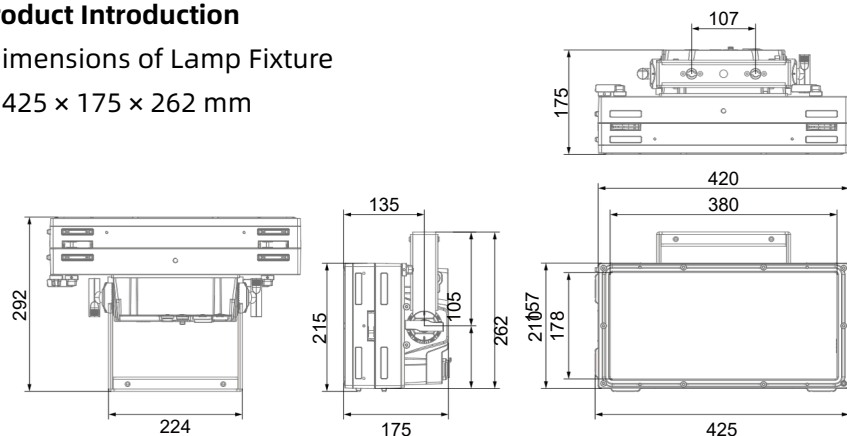


- The fixture must be installed in a well-ventilated location, with at least 0.5 meters of clearance from nearby surfaces, and ensure that no ventilation openings are blocked.
- Do not install the fixture directly on flammable materials.
- All exterior surfaces of the fixture must be at least 0.5 meters away from any flammable materials.

## II. Product Introduction

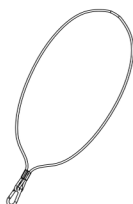
### 2.1 Dimensions of Lamp Fixture

425 × 175 × 262 mm



### 2.2 Accessories for Lighting Fixture Packaging

Name	Quantity	Unit
Steel safety cable	1	PCS



## III. Primary Technical Specifications of the Equipment

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

### ● Electrical specifications

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

Rated power of the entire lamp: 540W  
Power Factor: 0.99 F  
Input current: 2.4A  
220V

### ● LED longevity

>20,000  
hours

### ● Optical System

Light source : 630 × 3W CW LED + 1120 × 1.5W RGB LED

Luminous flux : 60000 Lm (Strobe

power)  
Beam angle : 68°

Spot angle : 114°

Color temperature : 10000 K

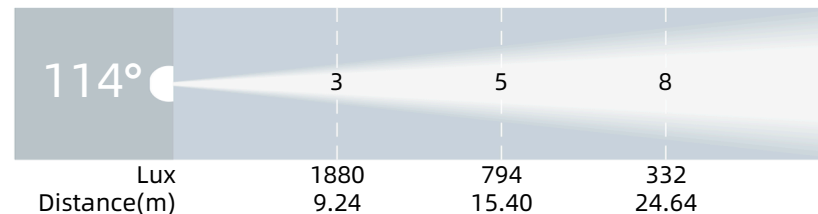
### ● Control and Programming

Control channel : 15CH/158CH/50CH

Protocol : Standard DMX512 protocol, RDM protocol

Data connection: Three-core waterproof signal cable in/out

### ● Illuminance chart



### ● Additional effects and functions

Rapid electronic flicker: 1-25 Hz

Dimming curves: four types

Built-in effects: six  
modes

### ● Additional features and functionalities

Lamp body weight: 11.4 kg

Carton dimensions: 51 × 35 × 28.5 cm

Gross weight:  
12.8 kg

## IV. Packaging and Transportation

### 4.1 Unpacking



**Note: Upon receipt of the light fixtures, please unpack and examine them for any damage incurred during transit.**

If the lamp sustains damage during transportation, please refrain from using it and promptly contact your local technicians or the manufacturer.

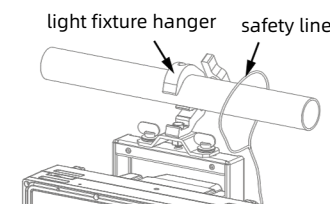
### 4.2 Equipment Packaging

1. Disconnect the power supply prior to packaging the lamps to ensure they cool completely. 2. Flight cases may only be stacked in two layers and must not be positioned upside down.

## V. Installation Prerequisites

### 5.1 Installation of Lighting Hooks

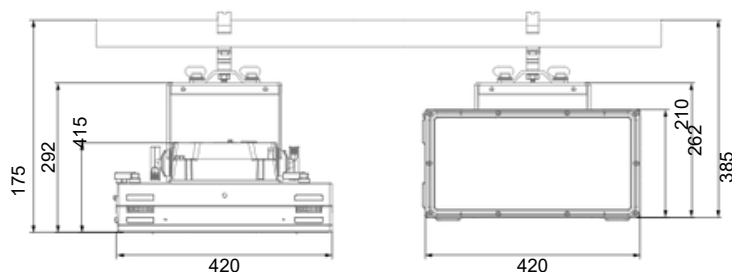
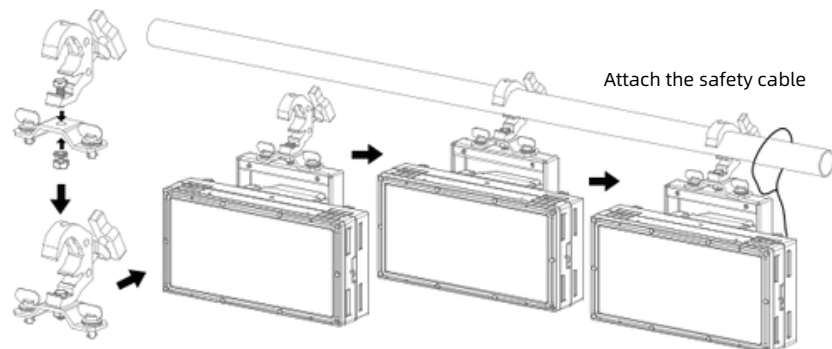
Lighting fixtures can be mounted anywhere on the stage or truss, and the lamp hooks attach quickly and easily.



### Warning!

The light fixture should be secured with a single light hook, and an additional safety rope must be connected to the safety hook, rather than to the handle.

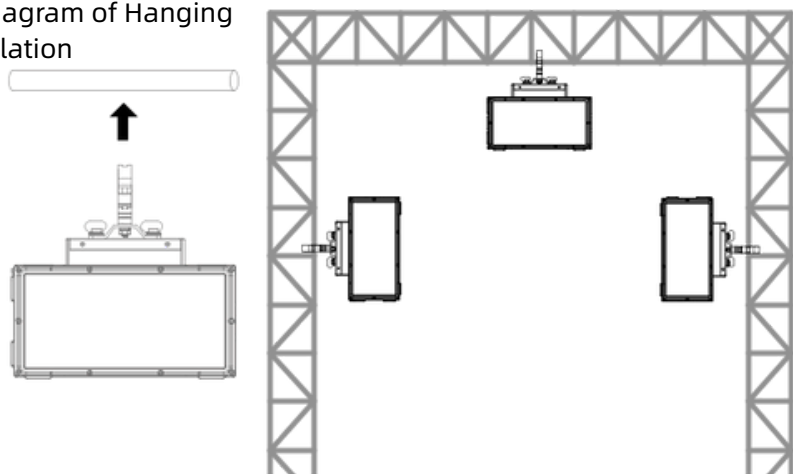
## Install the mounting hook and safety cable



## 5.2 Installation of Equipment

1. Before installing, check that the hook and safety cable are undamaged and confirm the structure can hold six times the fixture's total weight.
2. Install the hook onto the handle by inserting it horizontally into the mounting hole, then rotate it clockwise a quarter turn to lock it in place (actual hook shape may vary).

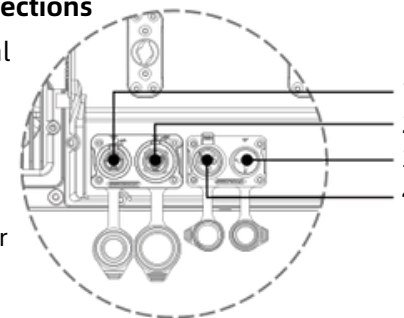
## 5.3 Diagram of Hanging Installation



## VI. Power and Signal Connections

### 6.1 Power supply and signal connector

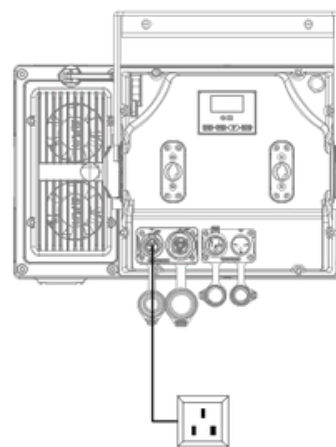
1. Male power outlet
2. Female power outlet
3. 3-pin male XLR connector
4. 3-pin female XLR connector



### 6.2 Electrical Connection **Connection method:**

L (live) - brown wire  
E (ground) - yellow/green wire  
N (neutral) - blue wire

When connecting the power, ensure that the voltage and frequency match those indicated on the fixture. When using multiple fixtures, it is recommended to connect the power for each fixture separately so that each one can be controlled independently for power on/off.



### **Connection method:**

**Note:** When connecting the power, the ground wire (yellow/green) must be properly connected.

Ensure proper grounding and comply with all relevant electrical installation standards.



Power In

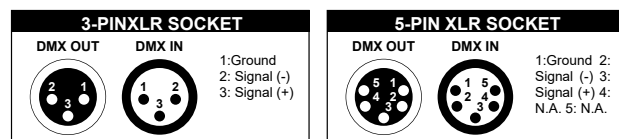
This product uses PowerCON In/Out connectors for power input and output. Due to power requirements, a 2 mm<sup>2</sup> power cable can support up to 3 units at 220V, and up to 1 unit at 110V.



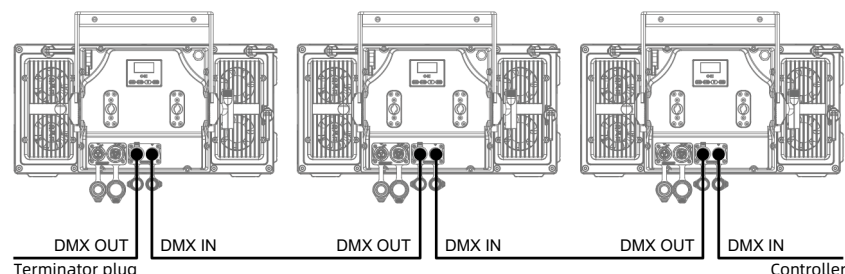
### **Warning!**

- Do not overload a single power cable.
- Do not use damaged power cables, and do not place power cables over other conductors.
- Unplug the fixture when not in use or when cleaning.
- Do not pull or forcefully plug/unplug the power cable.

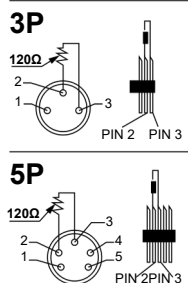
## 6.3 Signal connection



The fixture is equipped with standard 3-pin XLR connectors for DMX input and output. Use DMX512 shielded twisted-pair signal cables. The typical signal cable length is 150 meters; for longer distances, a DMX512 signal amplifier must be added.

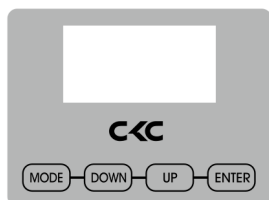


Use a shielded twisted-pair signal cable to connect the controller's DMX output to the DMX input of the first fixture. Then connect the DMX output of the first fixture to the DMX input of the second fixture, and continue this sequence until all fixtures are connected. Finally, install a terminator plug on the DMX output of the last fixture in the chain.  
(Solder a 120Ω, 1/4W resistor between pins 2 and 3 of the 3-pin XLR male connector.)



## VII . Control panel

### 7.1 Panel overview



- Uses an OLED display.
- Press the MENU button to view or modify the fixture's settings, and use the UP and DOWN buttons to adjust options.
- Press the ENTER button to confirm your selection. This will open the corresponding submenu, with each menu item representing a specific function of the fixture (see the table below).
- Press the ENTER button to save your changes or enter a submenu, and use the UP or DOWN buttons to adjust values.
- Press the MENU button to return to the previous menu or exit.

## 7.2 Function menu operation

Note: Gray blocks indicate default settings.

<b>Startup display</b>	Software Update Please Wait... CKC SOFTWARE V1.02		
Menu Option	Level 1	Level 2	Function description
DMX Settings	DMX Address	<b>001</b> - 512	Address setting
	DMX Channel Mode	15CH	Channel setting
		158CH	
		158CH	
	No DMX Status	<b>Hold Last</b>	No-signal hold
		Fade to black	No-signal fade to black
	Master	ON / <b>OFF</b>	Master mode on
	Slave	ON / <b>OFF</b>	Slave mode on
	Dim Modes	<b>Standard</b>	Dimmer delay
		stage	
		TV	
		Architectural	
		Theatre	
	Dim Curves	Stage 2	Dimmer delay
		<b>Linear</b>	
		Square	
		Square Inverse	
	LED Refresh Rate	900~1500, 2500, 4000, 5000, 6000, 10KHz, 15KHz, 20KHz, 25KHz ( <b>1200Hz</b> )	Frequency setting

## Personality

Display	Screen saver Delay 1-10		Screen Saver Delay (minutes)
	Screen Lock OFF - 10 minutes Default 30s		Screen Lock adjustment time
	Rotate Display 180° YES / NO		Flip display
Fan Speed	Auto Low High		Fan
Service Password: 050	Calibration	ALL Red 000-255	Calibration settings
		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 40 000-255	
		Green 40 000-255	
		Blue 40 000-255	
		White 1 000-255	
		....	
	White 30 000-255		
	Factory Restore YES / NO		Restore factory settings
	Edit RDM UID xxxxxx		Edit UID

Manual Control	Dimmer	000-255	Manual setting
	Dimmer Fine	000-255	
	Strobe	000-255	
	Red	000-255	
	Green	000-255	
	Blue	000-255	
	White	000-255	
Inform- ation	Fixture Life Time	Power On Time xxxxxx Hours	Power-on time
	Fixture Last Run Time	Power On TimAbleRes xxxxxx Hours	Total time after reset (resettable)
		Power On Time Reset Passcode=038	Reset time Password: 038
	Total Lamp Hours	xxxxxx Hours	Total operating time (non-resettable)
	Fixture Temp LED'S	PowerTemp	Power-on time
		Current xxx F / xxx C	Temperature display
		Max Resettable xxx F / xxx C	Temperature display
		Max Not Resettable xxx F / xxx C	Highest temperature after reset (resettable)
		Last Max Temp Reset	Maximum recorded temperature (not resettable)
	DMX Values	Dimmer xxx	DMX values
		Strobe xxx	
		...	
	Product ID's	RDM UID	UID number
	Error Logs	Fixture Errors	Fixture error information (Temp Error)
		Reset Error Log YES / NO	Clear error information Password: 050
	Software Version	1U:V1.02 2Ux:V1.02	Version display



## VIII. DMX control channel chart

15Ch	158Ch	50Ch	Value	Function	Default
1			0-255	All Red	Red
2			0-255	All Green	Green
3			0-255	All Blue	Blue
4			0-255	All White	White
	1	1	0-255	Red1	Red 1
	2	2	0-255	Green1	Green 1
	3	3	0-255	Blue1	Blue 1
			0-255	RGB...	
			0-255	Red10	Red 10
			0-255	Green10	Green 10
			0-255	Blue10	Blue 10
			0-255	RGB...	
	118	10	0-255	Red40	Red 40
	119	11	0-255	Green40	Green 40
	120	12	0-255	Blue40	Blue 40
	121	13	0-255	CW1	White 1
			0-255	CW...	
			0-255	CW20	White 20
			0-255	CW...	
	150	42	0-255	CW30	White 30
9	155	43		<b>Shutter, strobe RGB:</b>	Strobe
			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	156	44		<b>Shutter, strobe CW:</b>	Strobe
			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	151	45		<b>Dimmer RGB:</b>	Master dimmer - RGB
			0-255	Intensity 0 to 100%	
6	152	46		<b>Dimmer Fine:</b>	fine adjustment
			0-255	Intensity 0 to 100%	
7	153	47		<b>Dimmer CW:</b>	Master dimmer - CW
			0-255	Intensity 0 to 100%	

8	154	48		<b>Dimmer Fine:</b>	Fine adjustment
			0-255	intensity 0 to 100%	
11				Auto Program	Built-in 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			0-255	Programs Speed	Built-in speed
13			0-255	Programs Fade	Fade speed
14	157	49		<b>Dim Modes</b>	Dimming mode
			0-20	Standard	Standard
			21-40	Stage	Stage
			41-60	TV	TV
			61-80	Architectural	Architectural
			81-100	Theatre	Theater
			101-120	Stage 2	Stage 2
			121-255	Idle	Default value
15	158	50		<b>Dim Curve</b>	Dimming curve
			0-20	Dimmer Curve Linear (default)	Linear
			21-40	Dimmer Curve Square	Square-law
			41-60	Dimmer Curve Inverse Square	Inverse square-law
			61-80	Dimmer Curve S-Curve	S-curve
			81-255	No Function	No function



**Zone distribution diagram**

158CH 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	37	38	39	40

158CH Channel CW

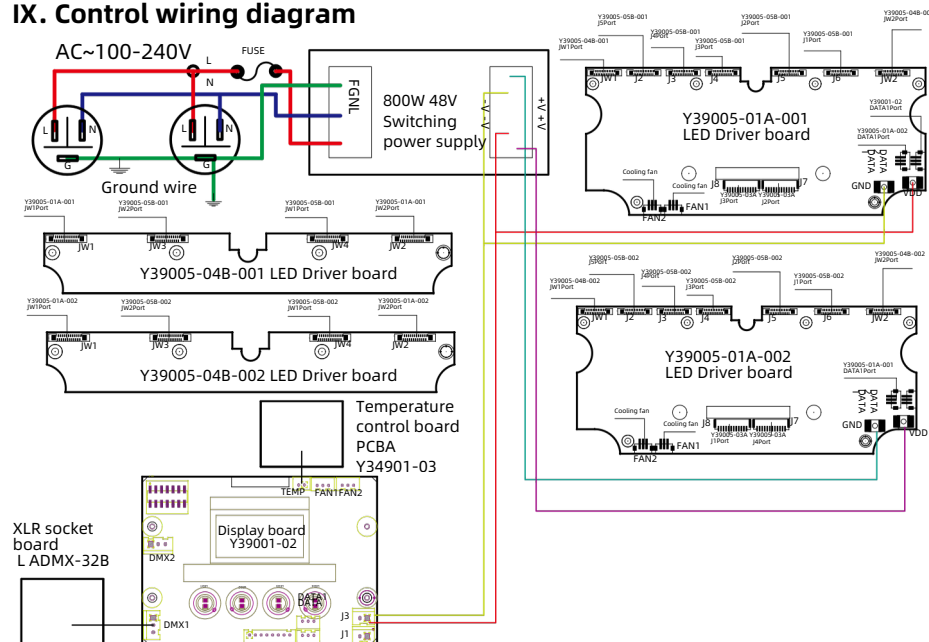
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

50CH 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	37	38	39	40

50CH Channel CW

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

**IX. Control wiring diagram****X. Routine maintenance****10.1 Cleaning and maintenance**

Regular cleaning and proper use are essential for the fixture's lifespan. If you have questions or need maintenance not covered in this manual, contact our qualified technical engineers.



**Note!** Damage caused by dust, smoke oil, or improper use is not covered under the warranty.


**Warning!**

Disconnect power before opening the unit. Clean optical parts gently and avoid harsh liquids or hard objects to prevent surface damage.

- Replace the lens immediately if it is cracked or damaged.
- If brightness drops noticeably, the LED may have reached the end of its lifespan and should be replaced.
- If the fixture won't power on, check whether the power fuse has blown. If it has, replace it with a fuse of the same specification.
- The fixture has a temperature protection system that automatically reduces power when overheating occurs. If this happens, check whether the fan is operating normally and whether dust is blocking the fan or its grille. Identify and fix the issue before restarting the fixture. Only qualified technicians should perform repairs.

**10.2 Troubleshooting and repairs**

Fault description	Analysis	Solution
No response after powering on	Check whether the power switch is on	Open
	Check if the fuse is blown	Replace
	Check the power supply output	Check voltage
	Check for loose internal wiring	Reconnect

The fixture is not responding to control.	Check the DMX cable connection	Reconnect or replace
	Check the address code and DMX mode	Reconfirm
	Main control board failure	Replace
The light does not turn on.	LED aging or damage	Replace
	Power board failure	Inspect / replace
	Loose or faulty wiring	Reconnect
	Switching power supply failure	Replace
The light turns off automatically or becomes dim.	LED aging	Replace
	Temperature control switch failure	Replace
Light output is weak, and the beam is uneven.	LED aging	Replace
	Optical lens has dust or stains	Clean
	Optical lens is damaged	Replace
Color is impure	Light output has weakened	Replace the LED board
 <b>Note!:</b> The above analysis is for reference only. Do not disassemble or repair the fixture if you are not a professional.		

