CKC

IP PixBar 200

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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 76 ℃ , 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.

2. Product Introduction

2.1 Exterior dimensions of lighting fixtures

946 × 178 × 247 mm

946

185

938

136

247

96

178

164

240

107

877
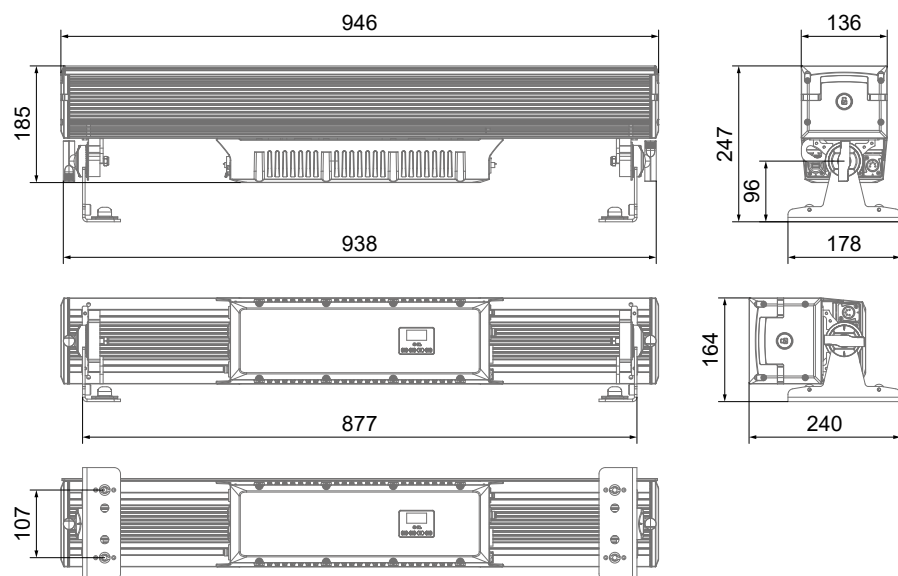
2.2 Packaging accessories

Name	QTY
Safety cable	1 PCS
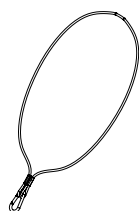
3. Main technical parameters of the equipment

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

● **Electrical parameter**

Rated input voltage：AC 100V-240V~ 50Hz/60Hz
Rated power：277 W
Power factor：0.964F
Input Current：1.35A 220V

● **Source lifespan**

> 20000 hours

● **Optical system**

Source：10 Sets (120 × 3.5W) RGBAL LED
Output luminous flux：10100 Lm
Beam angel：33 × 29°
Field angle：59 × 54°
CCT：2400K-8500K
CRI: 90

● **Control and programming**

Control channel：3-1/3-2/4/5/9/10/12-1/12-2/37/50/52/57 CH
Protocol：DMX512, RDM, ArtNet/sACN
Data connect：3 pin or 5pin signal in/out, RJ45 in/out

● **Illumination draw**

59×54°	3	5	8
Lux	3440	1480	695
Distance(m)	3.39	5.66	9.05

44×30°	3	5	8
Lux	8170	3400	1670
Distance(m)	2.42	4.04	6.46
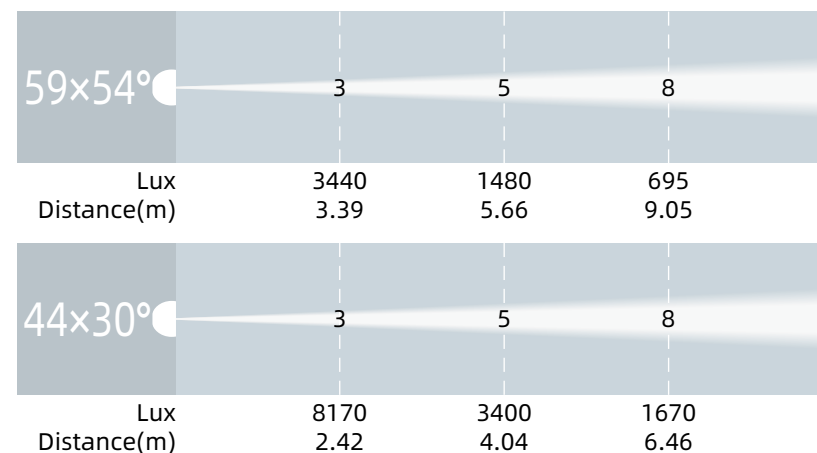
● **Other effect function**

Fast electronic strobe：1~25Hz   Dimmer Mode: 6 kinds
Dimmer Curve: 4 kinds

● **Other features and functions**

Weight：17.2 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 lighting fixtures are divided into two versions: integrated light hook and normal. When using the integrated light hook version, the clamp is broken up and locked onto the truss. The norma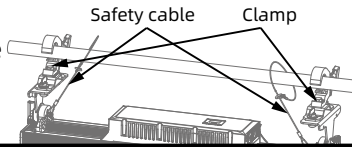l version must use 2 clamps to secure the device and fasten it with a 1/4 rotation. Regardless of the version, 2 safety rope must be added and connected to the base hole, but be careful not to connect it to the handling handle.

Quick lock and clamp install

Install safety cablea

357
247
224
946
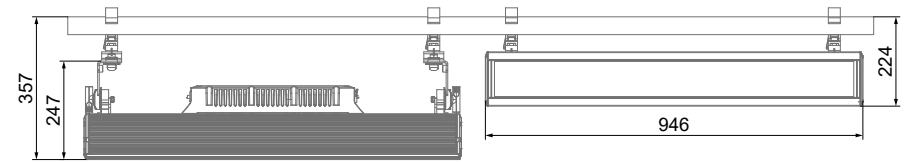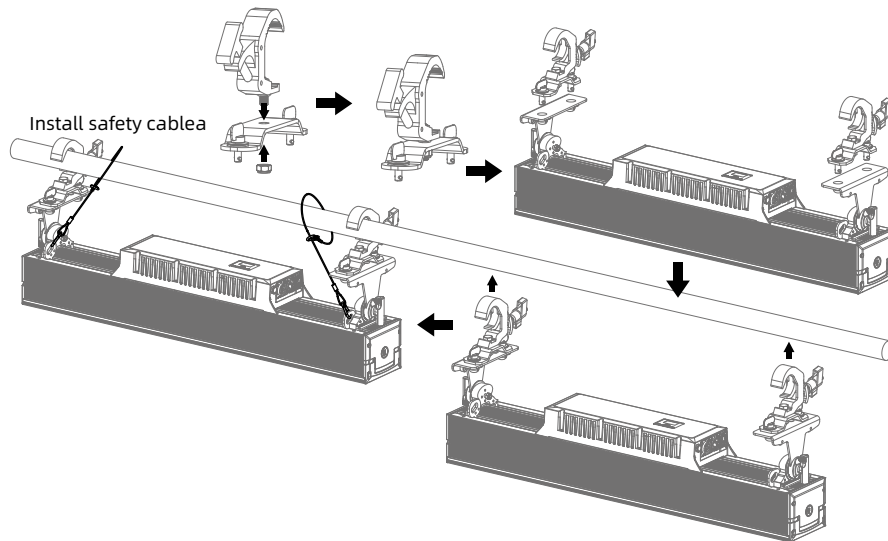
5.2 Equipment installation

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
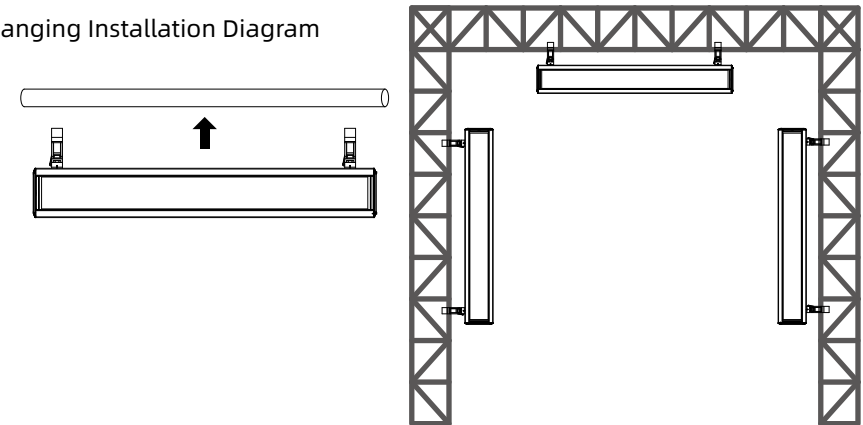
6. Power、Signal connect

6.1 Power and signal socket

1. RJ45 input
2. Power input
3. USB
4. DMX input
5. DMX output
6. RJ45 output
7. Power output
8. Breathable valve

1   2   3   4   5   6   7   8
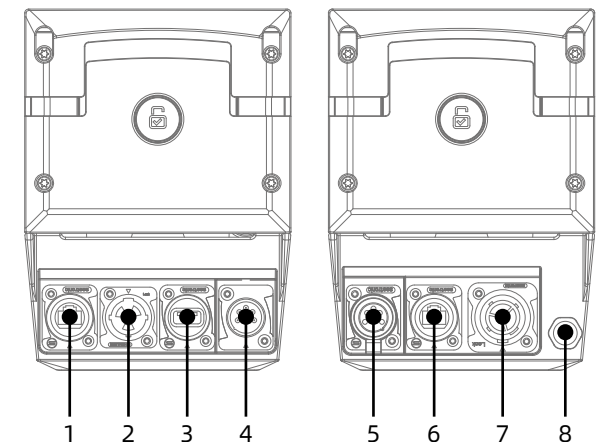
6.2 Power connect
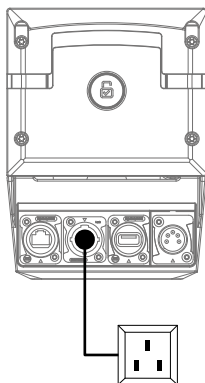
Connection method:

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 9 products at 220V and 4 product at 110V.

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.

RJ-45 SOCKET

SOCKET   PLUG

12345678   87654321

1:TD+   5: N.A.
2: TD-   6: RX-
3: RX+   7: N.A.
4: N.A.   8: N.A.
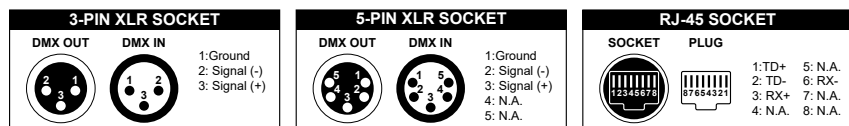
The lighting fixtures are equipped with standard DMX XLR and RJ-45 input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.

Controler   DMX IN

DMX OUT

DMX IN

DMX OUT

DMX IN

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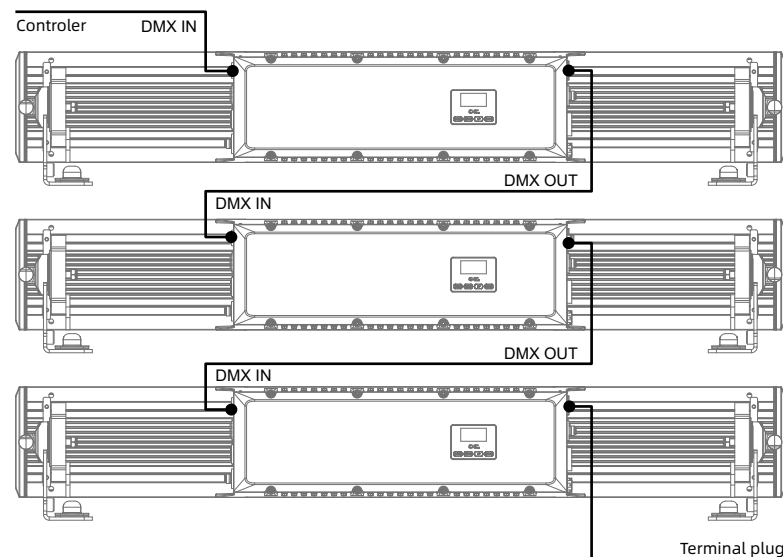
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on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

3P

120Ω

PIN 2   PIN 3

5P

120Ω

PIN 2   PIN 3
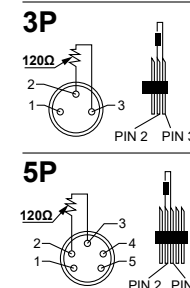
7. Control panel

7.1 Panel Introduction

● Adopting a OLED display screen;

● Press the MODE key to view or modify the lighting function settings, and press the UP, DOWN, LEFT, and RIGHT keys to select the function menu;

● 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.

● Press the MODE key to return to the previous menu or exit.

MODE — DOWN — UP — ENTER

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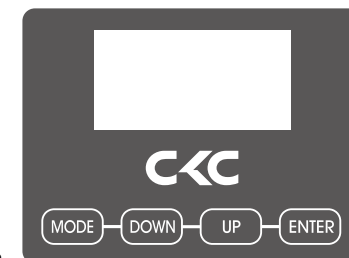
7.2、System menu

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	RGB/3CH
		RGB Five/3CH
		8bit/5CH
		16bit/10CH
		16bit + Dim/12CH
		Extended/12CH
		Cells/50CH
		Cells + Dim/52CH
		Extended + Cells/57CH
		HSI/4CH
		HSI Extended/9CH
		HSI + Cells/37CH
	No DMX Status	Hold Last
		Fade to black
		Standalone
Standalone	Dimmer	000%-100%
	Color Temperature	2400K-8500K (Default 2700K)
	Virtual Color	Swatch Book
		Color Scroll
		Color C-Scroll
		Random Slots Fast/Medium/Slow
	Master	ON / OFF
	Slave	ON / OFF
	Dim Modes	Standard
		Stage
		TV
		Architectural
		Theatre
		Stage 2
	Dim Curves	Linear
		Square
		Square Inverse
		S-Curve
Personality	LED Refresh Rate	900~1500, 2500, 4000, 5000, 6000, 10KHz, 15KHz, 20KHz, 25KHz (1200Hz)
	LED Power Limit	50,60,70,80,90,100%
	Display	Screen Saver Delay 1-10
		Screen Lock OFF - 10 minutes (Default 30s)
		Rotate Display 180° YES / NO
	Network	Switch ON/OFF
		Universe 0~255
		IP 002.000.000.002
		Subnet 255.000.000.000
		Portocol ArtNet/KlingNet
	Service (Passcode=050)	Calibration: ALL Red 000-255
		ALL Green 000-255
		ALL Blue 000-255
		ALL Lime 000-255
		ALL Amber 000-255
		Red 1 000-255
		Green 1 000-255
		....
		Amber 10 000-255
		USB Port Power ON/OFF
		Update Software ON/OFF
		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
	Lime	000-255
	Amber	000-255
	Fixture Life Time	Power On Time xxxxxx Hours

Info	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 (Passcode=038)
	DMX Values		Dimmer xxx
			Strobe xxx
			...
	Product ID's		RDM UID
	Error Logs		Fixture Errors
			Reset Error Log YES / NO (Passcode=050)
	Software Version		1U:V1.01 2U1:V1.01 2U2:V1.01 2U3:V1.01 2U4:V1.01 3U:V1.01

8. DMX channel table:

3-1=RGB/3CH   3-2=RGB Five/3CH   5=8bit/5CH
10=16bit/10CH   12-1=16bit+Dim/12CH   12-2=Extended/12CH
50=Cells/50CH   52=Cells+Dim/52CH   57=Extended+Cells/57CH

3-1	3-2	5	10	12-1	12-2	50	52	57	Value	Function
										Shutter, strobe:
									0-31	Shutter closed
									32-63	No function (shutter open)
									64-95	Strobe effect slow to fast
				1				1	96-127	No function (shutter open)
									128-159	Pulse-effect in sequences
									160-191	No function (shutter open)
									192-223	Random strobe effect slow to fast
									224-255	No function (shutter open)

				1	2		1	2	**Dimmer:**	
									0-255	Intensity 0 to 100%
				2	3		2	3	**Dimmer Fine:**	
									0-255	Dimmer fine
									Dim Modes	
									0-20	Standard
									21-40	Stage
									41-60	TV
				4				4	61-80	Architectural
									81-100	Theatre
									101-120	Stage 2
									121-255	Idle
									CTO:	
				5				5	0-23	Open
									24 -85	CTO 2400K - 8500K (see separate sheet)
									86-255	8500K
									Color Wheel:	
									0	Open
									1-53	Virtual Swatch Book (see separate sheet)
									54-179	Open
									Color Scroll	
									180-201	Clockwise,fast → slow
									202-207	Stop
									208-229	Counter-clockwise,slow → fast
				6				6	230-234	Open
									Random Slots	
									235-239	Fast
									240-244	Medium
									245-249	Slow
									250-255	Open
									Control:	
									0-100	Idle
										Refresh Rate (Hz)
									101-105	900
									106-110	1000
									111-115	1100
									116-120	1200
									121-125	1300
									126-130	1400
									131-135	1500
									136-140	2500
				7				7	141-145	4000

Left table

C1	C2	C3	C4	C5	C6	C7	C8	C9	Value	Function
									146-150	5000
									151-155	10000
									156-160	15000
									161-165	20000
									166-170	25000
									171-200	Idle
									201-210	Dimmer Curve Linear (default)
									211-220	Dimmer Curve Square
									221-230	Dimmer Curve Inverse Square
									231-240	Dimmer Curve S-Curve
									241-255	Idle
1	1	1	1	3	8	1	3	8		**Red**
									0-255	0 → 100%
			2	4						**Red Fine**
									0-255	0 → 100%
2	2	2	3	5	9	2	4	9		**Green**
									0-255	0 → 100%
			4	6						**Green Fine**
									0-255	0 → 100%
3	3	3	5	7	10	3	5	10		**Blue**
									0-255	0 → 100%
			6	8						**Blue Fine**
									0-255	0 → 100%
		4	7	9	11	4	6	11		**Lime**
									0-255	0 → 100%
			8	10						**Lime Fine**
									0-255	0 → 100%
		5	9	11	12	5	7	12		**Amber**
									0-255	0 → 100%
			10	12						**Amber Fine**
									0-255	0 → 100%
									...	
						46	48	53		**Red**
									0-255	0 → 100%
						47	49	54		**Green**
									0-255	0 → 100%
						48	50	55		**Blue**
									0-255	0 → 100%
						49	51	56		**Lime**
									0-255	0 → 100%
						50	52	67		**Amber**
									0-255	0 → 100%

Right table

4=HSI/4CH 9=HSI Extended/9CH 37=HSI+Cells/37CH

4	9	37	Value	Function
				Strobe
			0-31	Closed
			32-63	Open
			64-95	Strobe (slow → fast)
1	1	1	96-127	Open
			129-159	Pulse (slow → fast)
			160-191	Open
			192-223	Random (slow → fast)
			224-255	Open
1	2	2		**Master Intensity**
			0-255	Close → Open
2	3	3		**Master Intensity Fine**
			0-255	Close → Open
				Dim Modes
			0-20	Standard
			21-40	Stage
	4	4	41-60	TV
			61-80	Archictural
			81-100	Theatre
			101-120	Stage 2
			121-255	Default
				CTO
	5	5	0-23	Open
			24 -85	CTO 2400K - 8500K (see separate sheet)
			86-255	8500K
				Color Wheel
			0	Open
			1-53	Virtual Swatch Book (see separate sheet)
			54-179	Open
				Color Scroll
			180-201	Clockwise,fast → slow
	6	6	202-207	Stop
			208-229	Counter-clockwise,slow → fast
			230-234	Open
				Random Slots
			235-239	Fast
			240-244	Medium
			245-249	Slow
			250-255	Open

				Control
			0-100	Idle
				Change Refresh Rate (Hz)
			101-105	900
			106-110	1000
			111-115	1100
			116-120	1200 (default)
			121-125	1300
			126-130	1400
			131-135	1500
	7	7	136-140	2500
			141-145	4000
			146-150	5000
			151-155	10000
			156-160	15000
			161-165	20000
			166-170	25000
			171-200	Idle
				Dimmer Curves
			201-210	Dimmer Curve Linear (default)
			211-220	Dimmer Curve Square
			221-230	Dimmer Curve Inverse Square
			231-240	Dimmer Curve S-Curve
			241-255	Idle
3	8	8		Hue
			0 - 255	**0 → 100%**
4	9	9		Saturation
			0 - 255	**0 → 100%**
		10		Intensity
			0 - 255	**0 → 100%**
		35		**Hue 10**
			0 - 255	0 → 100%
		36		**Saturation 10**
			0 - 255	0 → 100%
		37		**Intensity 10**
			0 - 255	0 → 100%

Virtual Swatch Book

Value	Filter Number	Name	Value	Filter Number	Name
1	7	pale yellow	28	113	magenta
2	103	straw	29	46	dark magenta
3	151	gold tint	30	48	rose purple
4	100	spring yellow	31	126	mauve
5	10	medium yellow	32	49	medium purple
6	101	yellow	33	58	lavender
7	104	deep amber	34	199	palace blue
8	15	deep straw	35	119	dark blue
9	179	loving amber	36	132	medium blue
10	21	gold amber	37	120	deep blue
11	105	orange	38	165	daylight blue
12	158	deep orange	39	161	slate blue
13	22	dark amber	40	118	light blue
14	778	millenium gold	41	68	sky blue
15	135	deep golden amber	42	143	pale navy blue
16	24	scarlet	43	131	marine blue
17	106	primary red	44	115	peacock blue
18	26	bright red	45	172	lagoon blue
19	27	medium red	46	116	medium blue green
20	19	fire	47	90	dark yellow green
21	157	pink	48	139	primary green
22	36	medium pink	49	122	fern green
23	111	dark pink	50	89	moss green
24	128	bright pink	51	124	dark green
25	148	bright rose	52	88	lime green
26	332	special rose pink	53	138	pale green
27	793	vanity fair	54-179		No function

WCT Preset Chart:

Value	Color Temperature	Value	Color Temperature	Value	Color Temperature
24	2400	45	4500	66	6600
25	2500	46	4600	67	6700
26	2600	47	4700	68	6800
27	2700	48	4800	69	6900
28	2800	49	4900	70	7000
29	2900	50	5000	71	7100
30	3000	51	5100	72	7200
31	3100	52	5200	73	7300
32	3200	53	5300	74	7400
33	3300	54	5400	75	7500

34	3400	55	5500	76	7600
35	3500	56	5600	77	7700
36	3600	57	5700	78	7800
37	3700	58	5800	79	7900
38	3800	59	5900	80	8000
39	3900	60	6000	81	8100
40	4000	61	6100	82	8200
41	4100	62	6200	83	8300
42	4200	63	6300	84	8400
43	4300	64	6400	85	8500
44	4400	65	6500		

9. Control circuit diagram
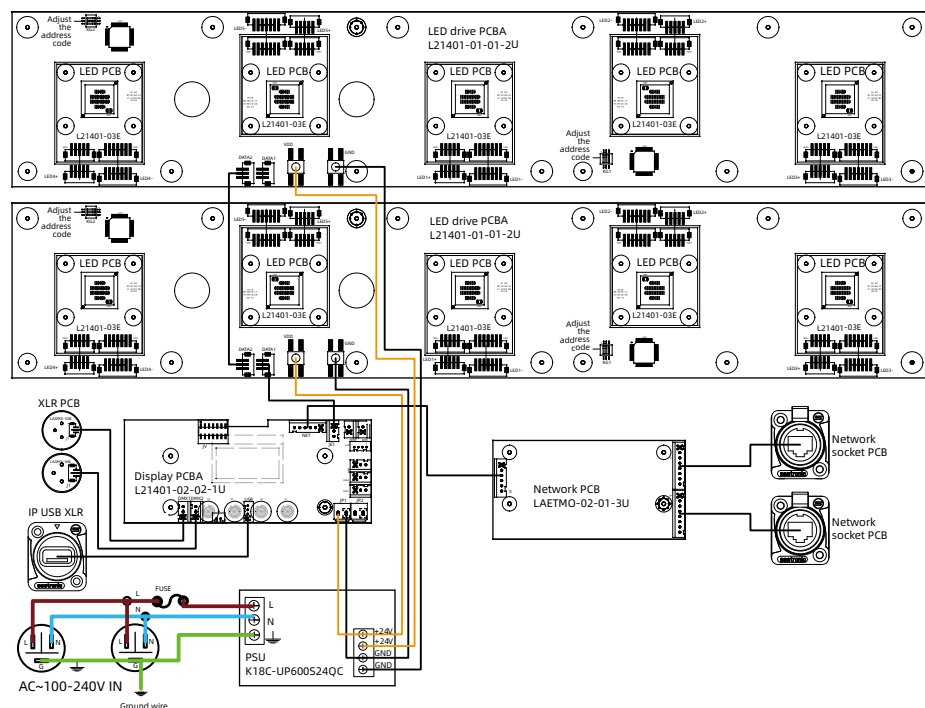
10. Regular maintenance

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		