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PixBar 1515

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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

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★ 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 IP20 and is suitable for indoor use;

● Avoid direct external strong light shining on the lens, which may cause the lens to focus and burn out internal components.

● 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.

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## 2. Product Introduction

2.1 Exterior dimensions of lighting fixtures

915 × 147 × 147 mm

915
85
49
121
785
147
60
147

107
670

117
726

74
167
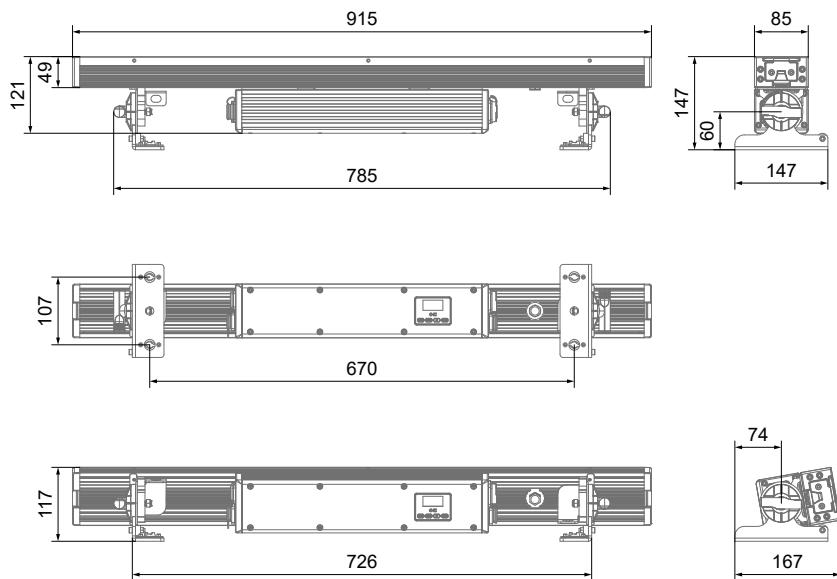
2.2 Packaging accessories

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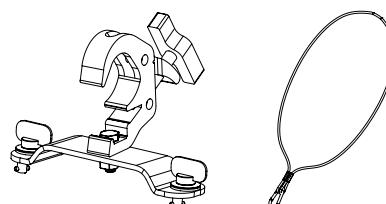
3. Main technical parameters of the equipment

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

● Electrical parameter

Rated input voltage：AC 100V-240V~ 50Hz/60Hz
Rated power：210 W
Power factor：0.995F
Input Current：0.953A 220V

● Source lifespan

＞20000 hours

● Optical system

Source：15 × 15W RGBW LED
Output luminous flux：5700 Lm
Beam angel：X/17°　Y/7°
Field angle：X/25°　Y/14°

● Control and programming

Control channel：4/7/8/11/14/60/63/67/70/120 CH
Protocol：DMX512, RDM
Data connect：3 pin or 5pin signal in/out

● Illumination draw

14°
3
5
8

	Lux	14300	7680	3650
	Distance(m)	0.74	1.23	1.96
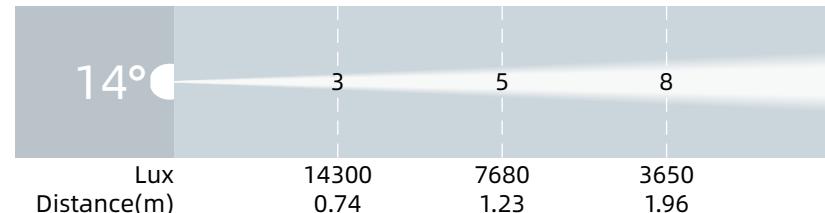
● Other effect function

Fast electronic strobe：1~25Hz

● Other features and functions

Weight：8.9 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
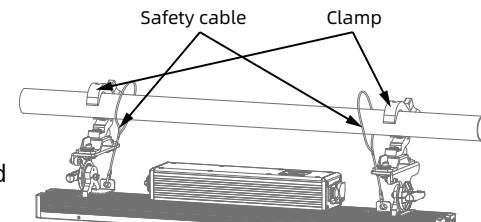
Waining！

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 normal 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

264
147
915

234
117
915
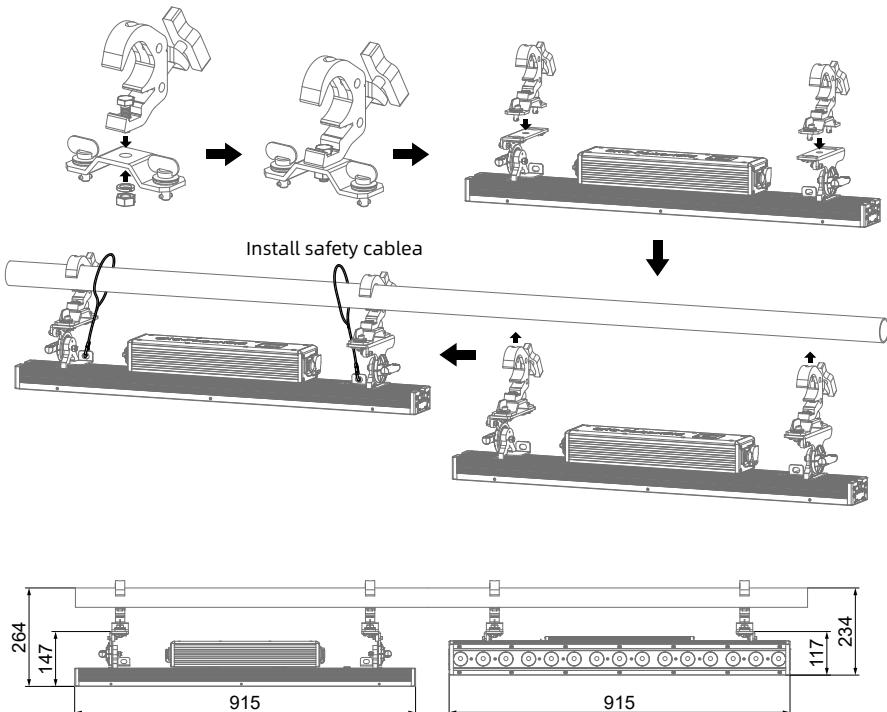
5.2 Equipment installation

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
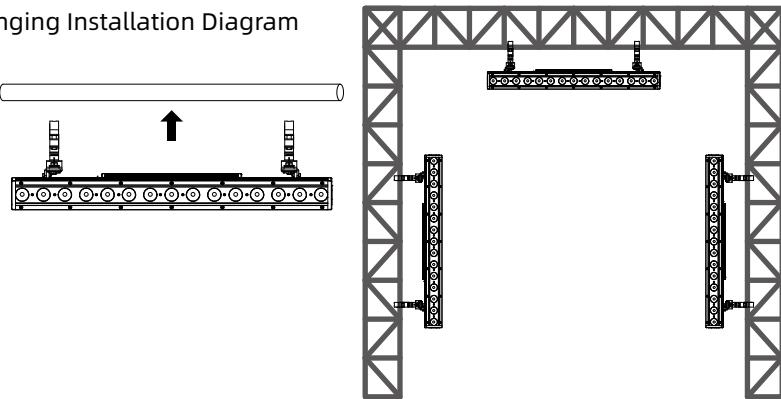
6. Power、Signal connect

6.1 Power and signal socket

1. Power output
2. DMX output
3. DMX input
4. Power input

6.2 Power connect

1 2   3 4
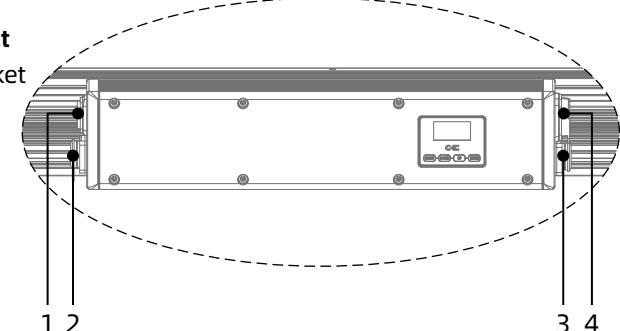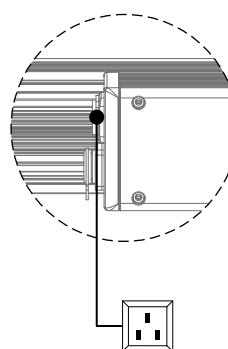
Connection method:

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 12 products at 220V and 5 product at 110V.

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- 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.
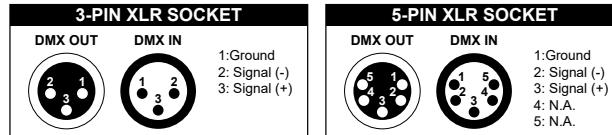
The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 3/5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.

控制器   DMX IN

DMX OUT

DMX IN

DMX OUT

DMX IN

终端插头
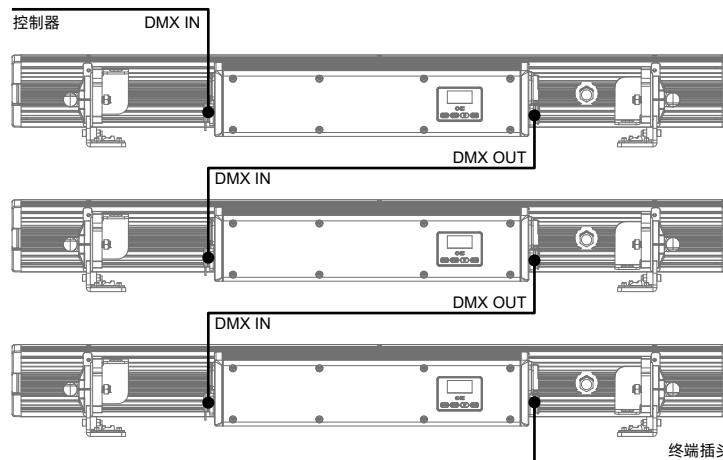
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on 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

2
1   3

PIN 2   PIN 3

5P

120Ω

3
2   4
1   5

PIN 2   PIN 3
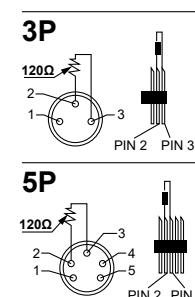
7. Control panel

7.1 Panel Introduction

● 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.

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MODE — DOWN — UP — ENTER
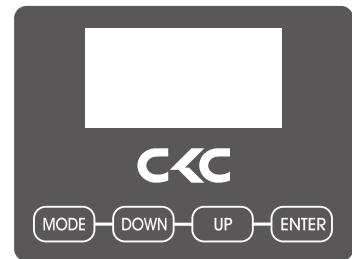
7.2、System menu

Note: The gray color block is the default setting value

Update Wait... PixBar1515 Softvers V1.03			
DMX Set	Address	001 - 509	
	Ch Mode	4/7/8/11/14/60/63/67/70/120CH	
	No DMX	Hold/Blackout/Int.Prog	
Menu Persnlity	Master	ON/OFF	
	Slave	ON/OFF	
	Dim Mode	LED/halogen	
	Curve	Linear/Square/Inv.Squa/S.Curve	
	LED Rfrsh	900Hz/1000Hz/1100Hz/1200Hz/1300Hz/1400Hz/1500Hz/2500Hz/4000Hz/5000Hz/10KHz/15KHz/20KHz/25KHz	
	Display	Saver Delay	1-10s
		Lock	OFF/1 ~ 10m
	Service (Passcode 050)	Calibrat	All Red 050-255 ... All White 050-255
			R1 050-255 .... W15 050-255
		Restore YES/NO (Passcode 011)	

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Menu Manual	Red		000-255
	Green		000-255
	Blue		000-255
	White		000-255
	Color Macro		0-64
	Strobe		000-255
	Master Dimmer		000-255
Menu Int Progs	Program 1 ~ 11	Speed	000-255
		Fade	000-255
Menu Info.	Hours	PwrOnHr1	xxxxxx Hours
		PwrOnHr2	xxxxxx Hours
		PwrOnRst	Passcode 050
	Temp	xxx°C	xxx F/xxx °C
		MaxTemp1	xxx F/xxx °C
		MaxTemp2	xxx F/xxx °C
		TempRst.	YES/NO (Passcode 050)
	DMX Value	Red	
		Green	
		...	
	Software Version	1U V103 / 2U V103	

8. DMX channel table:

Channel Modes										Value	Function
4	7	8	11	14	60	63	67	70	120		
1	1	1	1	1						0-255	**All Red** 0~100%
		2									**All Red Fine 16-bit**
2	2	3	2	2						0-255	**All Green** 0~100%
		4									**All Green Fine 16-bit**
3	3	5	3	3						0-255	**All Blue** 0~100%
		6									**Blue 1 Fine 16-bit**
4	4	7	4	4						0-255	**All White** 0~100%
		8									**All White Fine 16-bit**
					1	1	1	1	1	0-255	**Red 1** 0~100%
									2		**Red 1 Fine 16-bit**
					2	2	2	2	3	0-255	**Green 1** 0~100%
									4		**Green 1 Fine 16-bit**
					3	3	3	3	5	0-255	**Blue 1** 0~100%
									6		**Blue 1 Fine 16-bit**
					4	4	4	4	7	0-255	**White 1** 0~100%
									8		**White 1 Fine 16-bit**
					...	...	...	...	...		...
					57	57	57	57	113	0-255	**Red 15** 0~100%
									114		**Red 15 Fine 16-bit**
					58	58	58	58	115	0-255	**Green 15** 0~100%
									116		**Green 15 Fine 16-bit**
					59	59	59	59	117	0-255	**Blue 15** 0~100%
									118		**Blue 15 Fine 16-bit**
					60	60	60	60	119	0-255	**White 15** 0~100%
									120		**White 15 Fine 16-bit**
			5	5			61	61			**Color Macros**
	5		6	6		61	62	62			**Shutter, Strobe**
										0-31	Led's Off
										32-63	Led's On
										64-95	Strobe effect slow to fast
										96-127	Led's On
										128-159	Pulse-effect in sequences
										160-191	Led's On
										192-223	Random strobe effect slow to fast
										224-255	Led's On
	6		7	7		62	63	63		0-255	**Dimmer (Intensity)** Intensity 0 to 100%
	7		8	8		63	64	64		0-255	**Dimmer Fine 16-bit**

			Value	Function
9		65		**Auto programs:**
			0-10	Off
			11-26	Auto Program 1
			27-43	Auto Program 2
			44-60	Auto Program 3
			61-76	Auto Program 4
			77-93	Auto Program 5
			94-110	Auto Program 6
			111-126	Auto Program 7
			127-143	Auto Program 8
			144-160	Auto Program 9
			161-176	Auto Program 10
			177-193	Auto Program 11
			194-255	No Function
	10	66	0-255	**Auto Programs Speed:** Slow to Fast speed
	11	67	0-255	**Auto Programs Fade:** Less to More
9	12	65 68		**Dim Mode**
			0-20	Default to Unit Setting
			21-40	LED
			41-60	halogen
			61-255	No Function
10	13	66 69		**Dim Curves**
			0-20	Linear
			21-40	Square
			41-60	Inv. Squa
			61-80	S. Curve
			81-255	No Function
				Refresh Rates
			0-15	Default to Unit Setting
			16-30	900HZ
			31-45	1000HZ
			46-60	1100HZ
			61-75	1200HZ
			76-90	1300HZ
			91-105	1400HZ
11	14	67 70	106-120	1500HZ
			121-135	2500HZ
			136-150	4000HZ
			151-165	5000HZ
			166-180	10000HZ
			181-195	15000HZ
			196-210	20000HZ
			211-225	25000HZ
			226-255	No Function

The order of lighting points
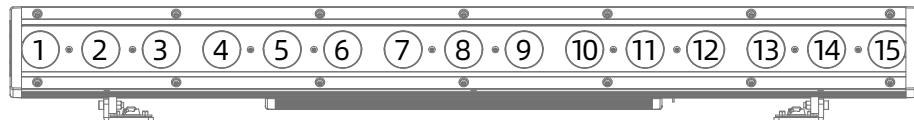
Color macro

1,DMXVALUES1-4		2,DMX VALUES 5-8		3,DMX VALUES 9-12		4,DMX VALUES 13-16	
Red =	80	Red =	80	Red =	77	Red =	117
Green =	255	Green =	255	Green =	255	Green =	255
Blue =	234	Blue =	164	Blue =	112	Blue =	83
W/A =	80	W/A =	80	W/A =	77	W/A =	83
5,DMX VALUES 17-20		**6,DMX VALUES 21-24**		**7,DMX VALUES 25-28**		**8,DMX VALUES 29-32**	
Red =	160	Red =	223	Red =	255	Red =	255
Green =	255	Green =	255	Green =	243	Green =	200
Blue =	77	Blue =	83	Blue =	77	Blue =	74
W/A =	77	W/A =	83	W/A =	77	W/A =	74
9,DMX VALUES 33-36		**10,DMX VALUES 37-40**		**11,DMX VALUES 41-44**		**12,DMX VALUES 45-48**	
Red =	255	Red =	255	Red =	255	Red =	255
Green =	166	Green =	125	Green =	97	Green =	71
Blue =	77	Blue =	74	Blue =	77	Blue =	77
W/A =	77	W/A =	74	W/A =	74	W/A =	71
13,DMX VALUES 49-52		**14,DMX VALUES 53-56**		**15,DMX VALUES 57-60**		**16,DMX VALUES 61-64**	
Red =	255	Red =	255	Red =	255	Red =	238
Green =	83	Green =	93	Green =	96	Green =	93
Blue =	134	Blue =	182	Blue =	236	Blue =	255
W/A =	83	W/A =	93	W/A =	96	W/A =	93
17,DMX VALUES 65-68		**18,DMX VALUES 69-72**		**19,DMX VALUES 73-76**		**20,DMX VALUES 77-80**	
Red =	196	Red =	150	Red =	100	Red =	77
Green =	87	Green =	90	Green =	77	Green =	100
Blue =	255	Blue =	255	Blue =	255	Blue =	255
W/A =	87	W/A =	90	W/A =	77	W/A =	77

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21,DMX VALUES 81-84		22,DMX VALUES 85-88		23,DMX VALUES 89-92		24,DMX VALUES 93-96	
Red =	67	Red =	77	Red =	77	Red =	158
Green =	148	Green =	195	Green =	234	Green =	255
Blue =	255	Blue =	255	Blue =	255	Blue =	144
W/A =	67	W/A =	77	W/A =	77	W/A =	144
25,DMX VALUES 97-100		**26,DMX VALUES 101-104**		**27,DMX VALUES 105-108**		**28,DMX VALUES 109-112**	
Red =	255	Red =	255	Red =	255	Red =	255
Green =	251	Green =	175	Green =	138	Green =	147
Blue =	153	Blue =	147	Blue =	186	Blue =	251
W/A =	153	W/A =	147	W/A =	138	W/A =	147
29,DMX VALUES 113-116		**30,DMX VALUES 117-120**		**31,DMX VALUES 121-124**		**32,DMX VALUES 125-128**	
Red =	151	Red =	99	Red =	138	Red =	255
Green =	138	Green =	0	Green =	169	Green =	255
Blue =	255	Blue =	255	Blue =	255	Blue =	255
W/A =	138	W/A =	100	W/A =	138	W/A =	255
33,DMX VALUES 129-132		**34,DMX VALUES 133-136**		**35,DMX VALUES 137-140**		**36,DMX VALUES 141-144**	
Red =	255	Red =	254	Red =	254	Red =	254
Green =	206	Green =	177	Green =	192	Green =	165
Blue =	143	Blue =	153	Blue =	138	Blue =	98
37,DMX VALUES 145-148		**38,DMX VALUES 149-152**		**39,DMX VALUES 153-156**		**40,DMX VALUES 157-160**	
Red =	254	Red =	176	Red =	96	Red =	234
Green =	121	Green =	17	Green =	0	Green =	139
Blue =	0	Blue =	0	Blue =	11	Blue =	171
41,DMX VALUES 161-164		**42,DMX VALUES 165-168**		**43,DMX VALUES 169-172**		**44,DMX VALUES 173-176**	
Red =	224	Red =	175	Red =	119	Red =	147
Green =	5	Green =	77	Green =	130	Green =	164
Blue =	97	Blue =	173	Blue =	199	Blue =	212
45,DMX VALUES 177-180		**46,DMX VALUES 181-184**		**47,DMX VALUES 185-188**		**48,DMX VALUES 189-192**	
Red =	88	Red =	0	Red =	0	Red =	52
Green =	2	Green =	38	Green =	142	Green =	148
Blue =	163	Blue =	86	Blue =	208	Blue =	209
49,DMX VALUES 193-196		**50,DMX VALUES 197-200**		**51,DMX VALUES 201-204**		**52,DMX VALUES 205-208**	
Red =	1	Red =	0	Red =	0	Red =	0
Green =	134	Green =	145	Green =	121	Green =	129
Blue =	201	Blue =	212	Blue =	192	Blue =	184
53,DMX VALUES 209-212		**54,DMX VALUES 213-216**		**55,DMX VALUES 217-220**		**56,DMX VALUES 221-224**	
Red =	0	Red =	0	Red =	1	Red =	0
Green =	83	Green =	97	Green =	100	Green =	40
Blue =	115	Blue =	166	Blue =	167	Blue =	86
57,DMX VALUES 225-228		**58,DMX VALUES 229-232**		**59,DMX VALUES 233-236**		**60,DMX VALUES 237-240**	
Red =	209	Red =	42	Red =	0	Red =	8
Green =	219	Green =	165	Green =	46	Green =	107
Blue =	182	Blue =	85	Blue =	35	Blue =	222
61,DMX VALUES 241-244		**62,DMX VALUES 245-248**		**63,DMX VALUES 249-252**		**64,DMX VALUES 253-255**	
Red =	255	Red =	0	Red =	0	Red =	0
Green =	0	Green =	255	Green =	0	Green =	0
Blue =	0	Blue =	0	Blue =	255	Blue =	0
						White =	255

9. Control circuit diagram
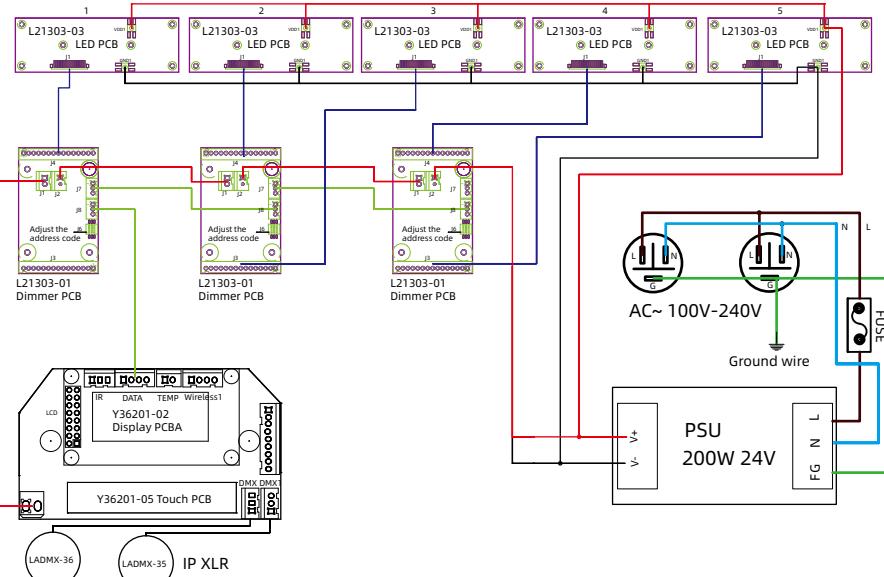
10. Regular maintenance

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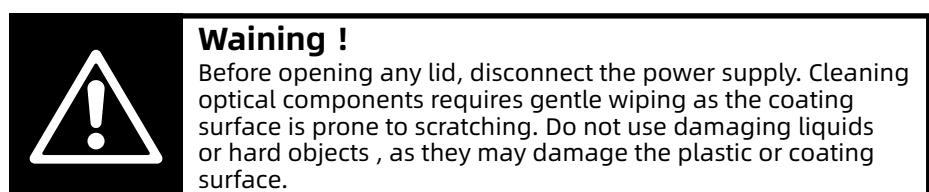
● When the lens is cracked or otherwise damaged, it should be replaced in a timely manner;

● 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