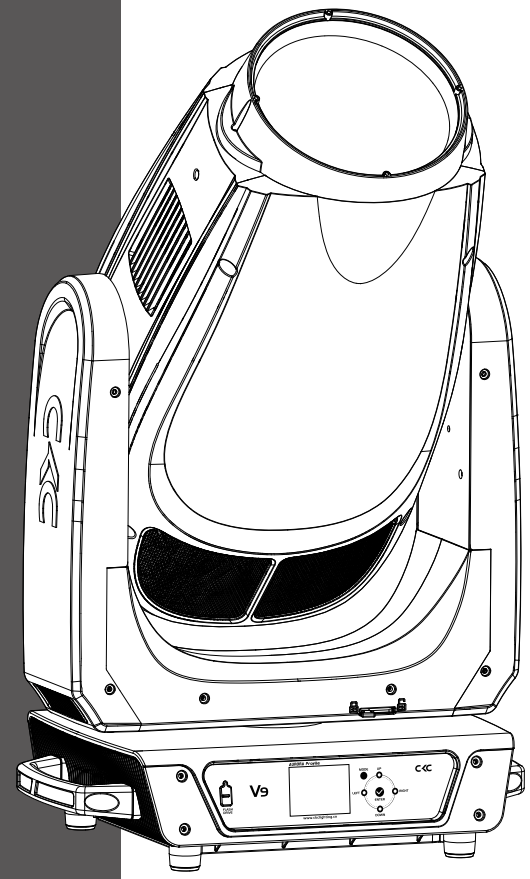
V9



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.

CKC LIGHTING CO.,LTD

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WEB：www.ckclighting.com

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 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 3m.

- 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.

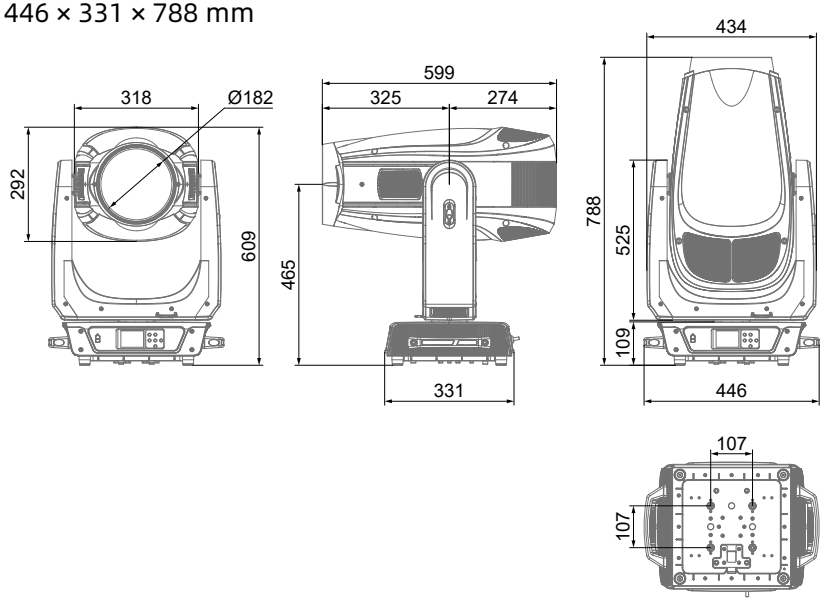
- The lighting fixtures work normally at -20 ℃ to 45 ℃ . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 63 ℃ , please do not touch it with 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

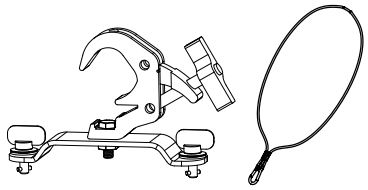
2.1 Exterior dimensions of lighting fixtures

446 × 331 × 788 mm



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 of the entire fixture：1340 W
Power factor：0.999F
Input Current：5.91A 220V

● **Source lifespan**

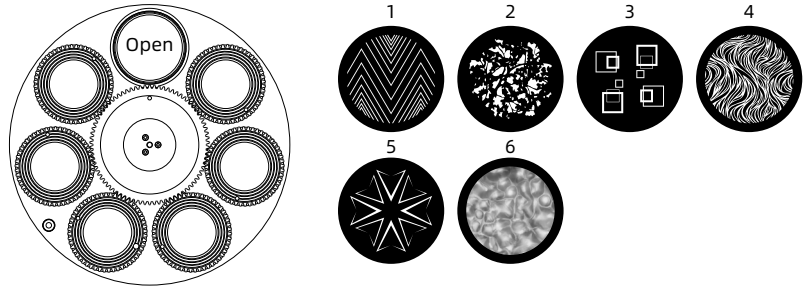
>20000 hours

● **Color system**

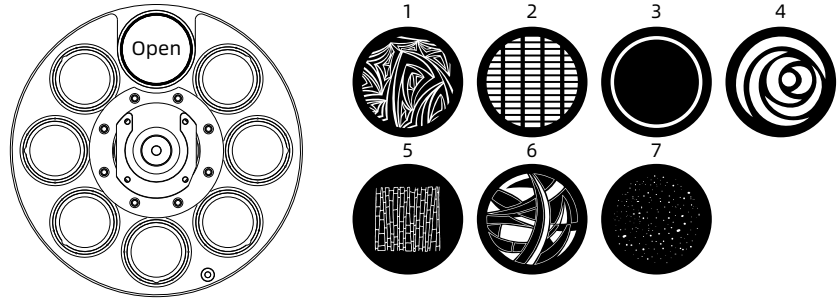
CCT: 1800~10000K
CRI：Ra/94
R9/95

● **Gobo system**

Rotation gobo: 6+1
Gobo outer diameter：30 $^{+0}_{-0.2}$ mm
Internal diameter：25mm
Thickness：1.1mm



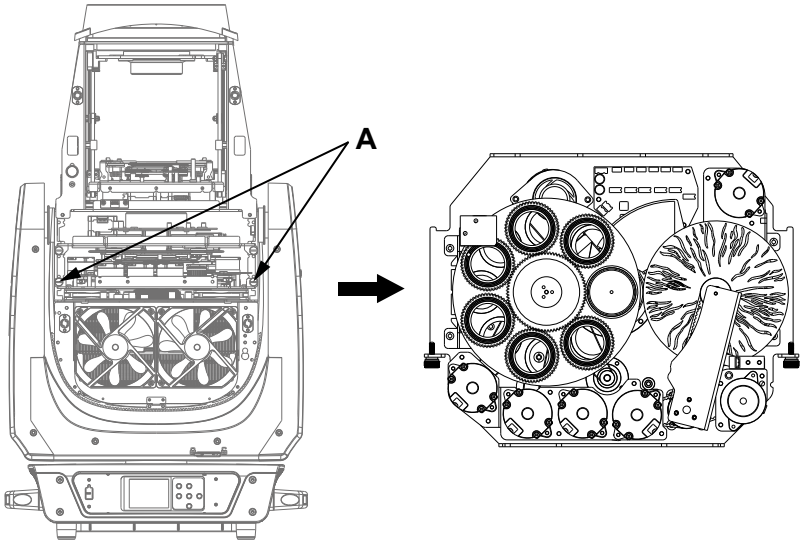
Fixed gobo: 7+1
Gobo outer diameter：30 $^{+0}_{-0.2}$ mm
Internal diameter：25mm
Thickness：1.1mm



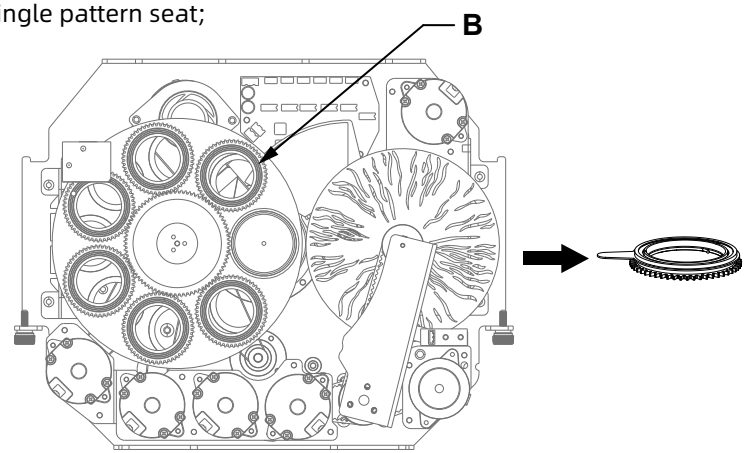
Gobo replace

1) Rotation gobo wheel

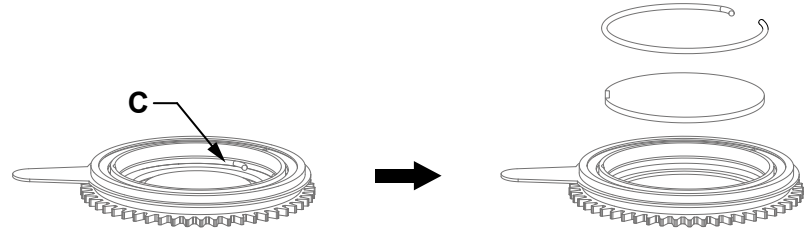
a). Remove the two screws at location **A**, unplug the power and signal adaptercables, and extract the Gobo component;



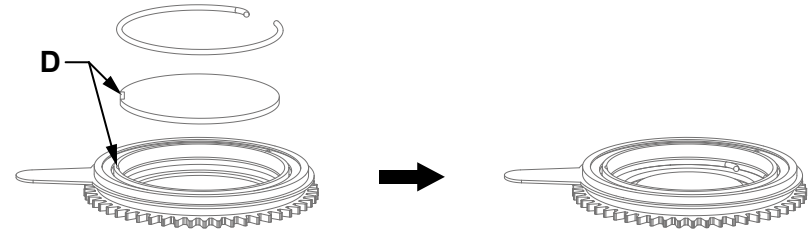
b). As shown in **B**, gently lift the driven wheel from the edge upwards from the front of the pattern plate and slowly pull it out to remove a single pattern seat;



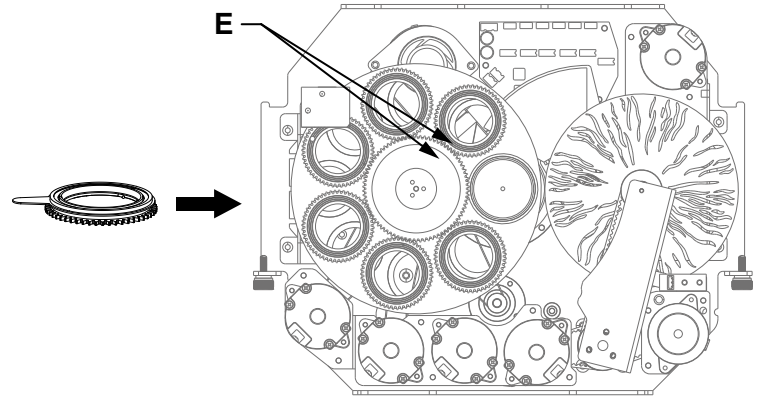
c). Use tweezers or other small grippers to remove the snap spring at point **C** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



d). When assembling the gobo, avoid touching it directly with your hands. As shown in D, align the notch of the gobo with the recess of the driven wheel component (the coating surface of the gobo should face the light source);

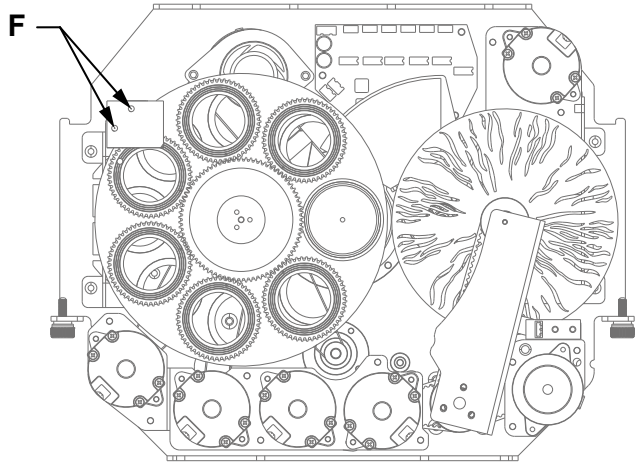


e). Insert the gobo holder into the drive wheel assembly, as shown in **E**, and reinstall the gobo holder in the order it was removed; The positioning point of the gobo holder should be aligned with the positioning point of the driving wheel; After installation, simply reinstall the gobo wheel component onto the light fixture.

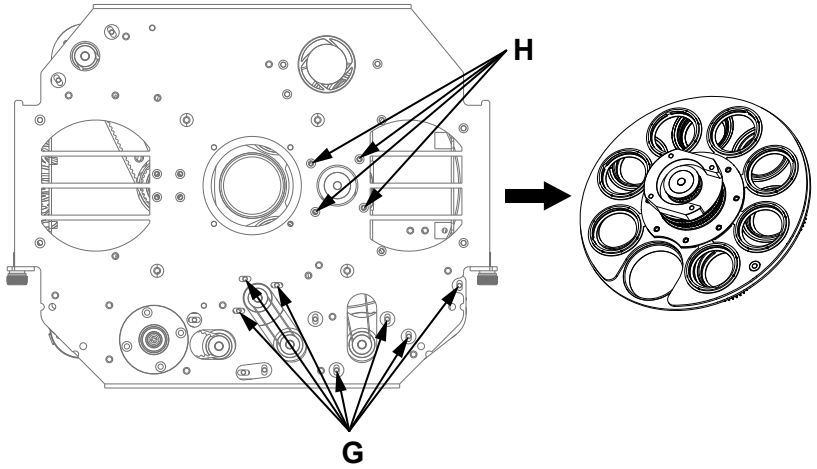


2) Fixing gobo wheel

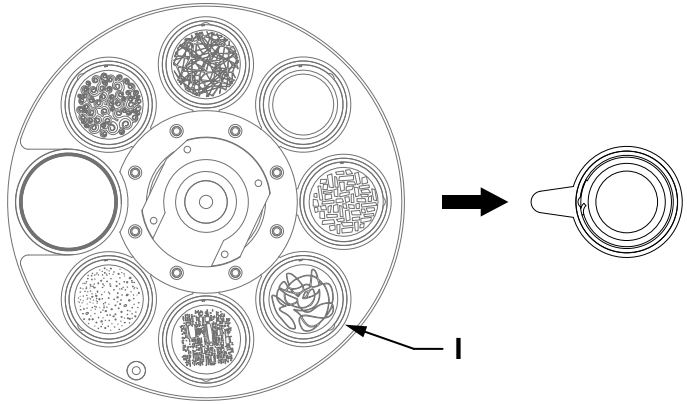
a). Unscrew the two screws on the front **F** of the gobo wheel component and remove the magnetic sensing plate;



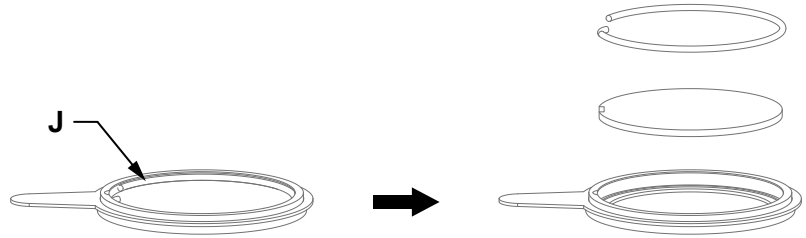
b). Reverse the components and loosen the 7 screws at **G** to loosen the belt; Unscrew the 4 screws at position **H** again to remove the gobo wheel component of the pattern disk;



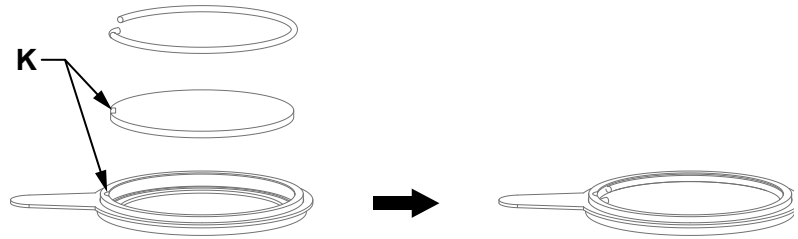
c). As shown in **I**, gently lift the gobo holder from the edge of the gobo wheel 2 and slowly pull it out to remove a single gobo holder;



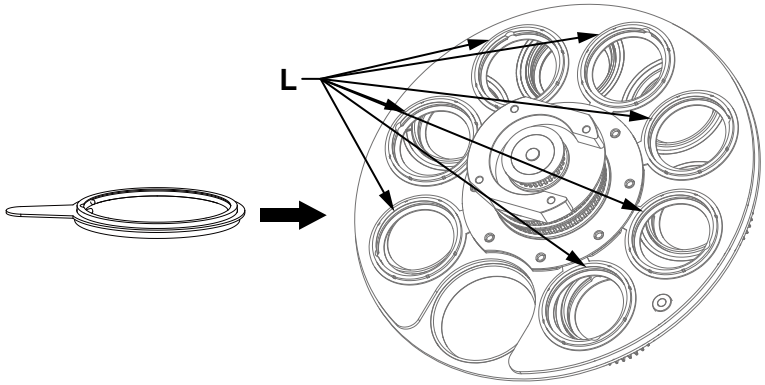
d). Use tweezers or other small grippers to remove the snap spring at point **J** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



e). When assembling the gobo, avoid touching it directly with your hands. As shown in **K**, align the notch of the gobo with the recess of the driven wheel component (the coating surface of the gobo should face the light source);



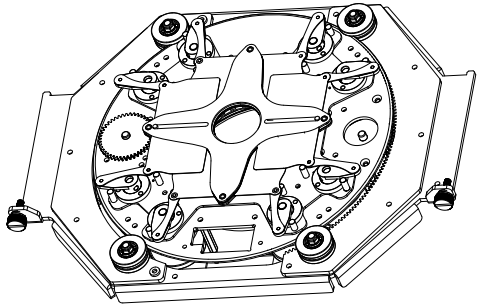
f). Insert the gobo wheel into the drive wheel assembly, as shown in **L**, and reinstall the gobo holder in the order it was removed;



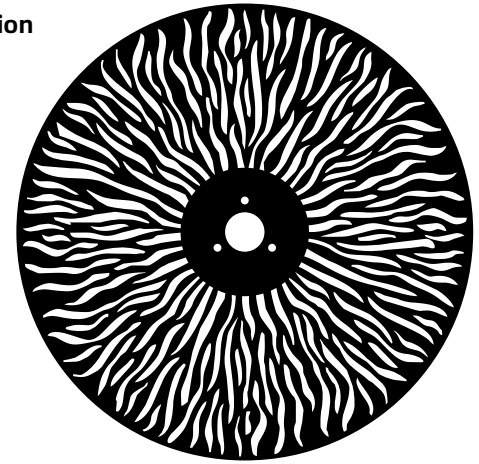
g). After installation, simply reinstall the gobo wheel component onto the light fixture.

● **Framing system**

4 gratings achieve fast and smooth cutting, and the cutting direction and angle of each grating can be controlled separately. The single grating can achieve complete light closure, and the entire frame module can rotate ±60º

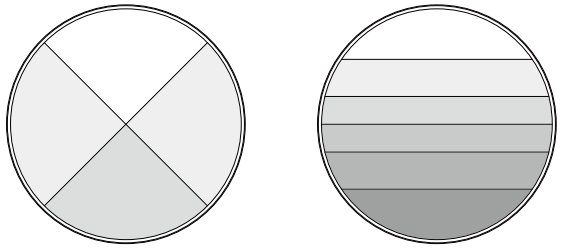


● **Animation**



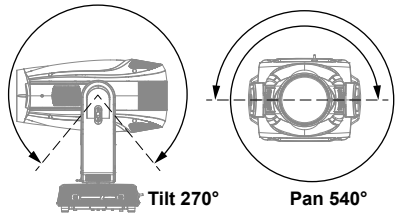
● **Prism system**

4 prism+ 6 linear



● **Pan/Tilt**

Pan scan:
540° or 630° 8-bit/16bit recision scanning
Tilt scan:
270° 8-bit/16bit precision scanning



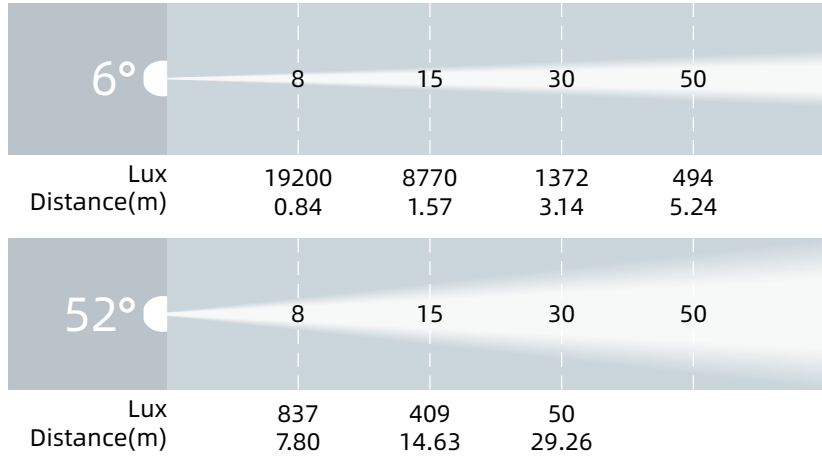
● **Optical system**

Beam angel: 6 ~ 52°
Source：800W RGBAL LED
Output luminous flux：21000 Lm

● **Control and programming**

Control channel：37CH/39CH/57CH
Protocol：DMX512, RDM
Data connect：3 or 5 pin signal in/out

● **Illumination draw**



● **Other effect function**

Fast electronic strobe：1~25Hz
LED refresh frequency：1200Hz-25KHz
Frost：Light frost+heavy frost
Iris

● **Other features and functions**

Weight：41.4 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.

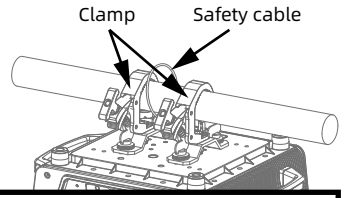
4.2 Equipment packaging

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

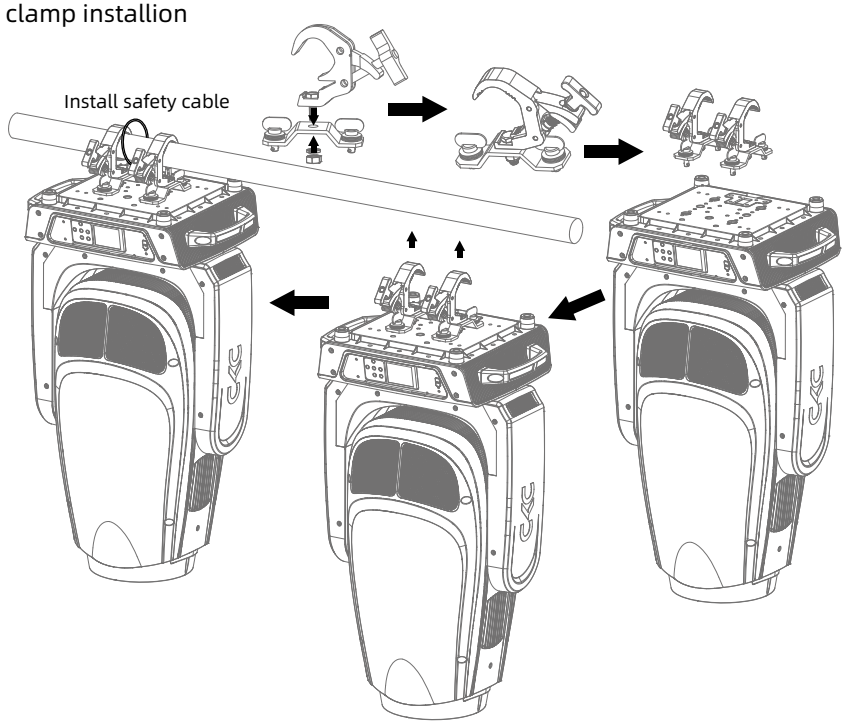
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.

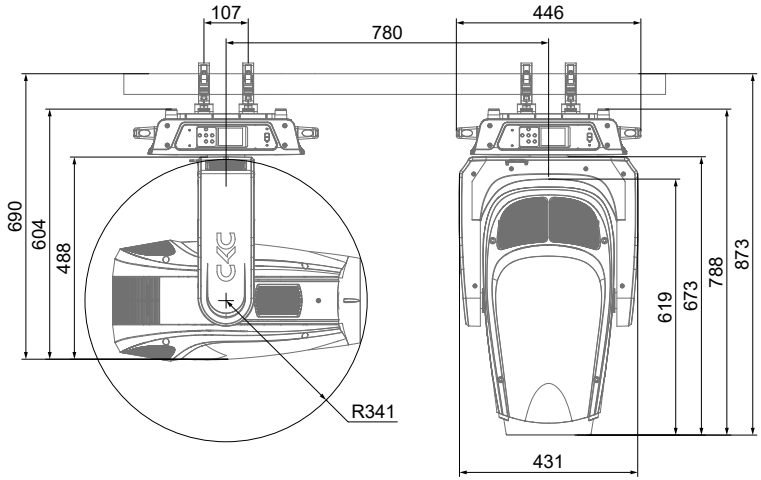


Waining !

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, one safety rope must be added and connected to the base hole, but be careful not to connect it to the handling handle.

Integrated
clamp installion

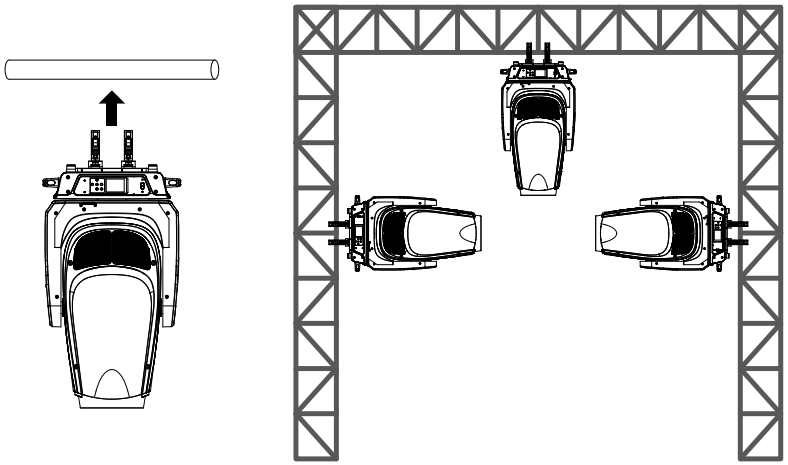




5.2 Equipment installation

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).

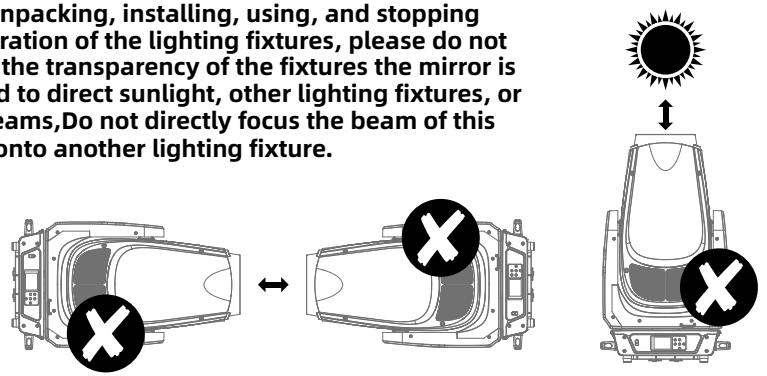
5.3 Hanging Installation Diagram



Reminder: External beam source may damage internal lighting fixtures

External beams from direct sunlight, lighting fixtures, and lasers that are directly focused onto the casing or penetrate the lens to illuminate the interior of the fixture may cause damage to the components. This is a common issue with all lighting fixtures and does not occur alone with CKC products. Although there is no way to completely prevent this problem from occurring, following the following guidelines can prevent potential damage.

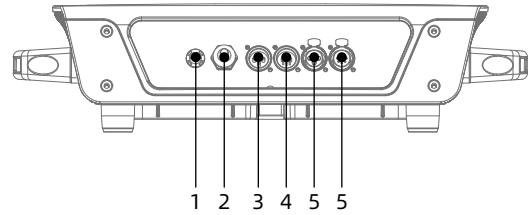
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams,Do not directly focus the beam of this device onto another lighting fixture.



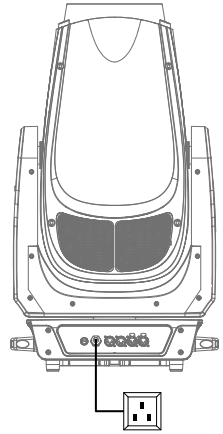
6. Power、Signal connect

6.1 Power and signal socket

1.Fuse holder
2.Power input
3.DMX input
4.DMX input
5.DMX output
6.DMX output



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.

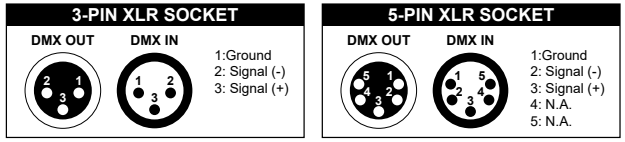
Power In

This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2-square 220V power cord can carry up to 1 products.

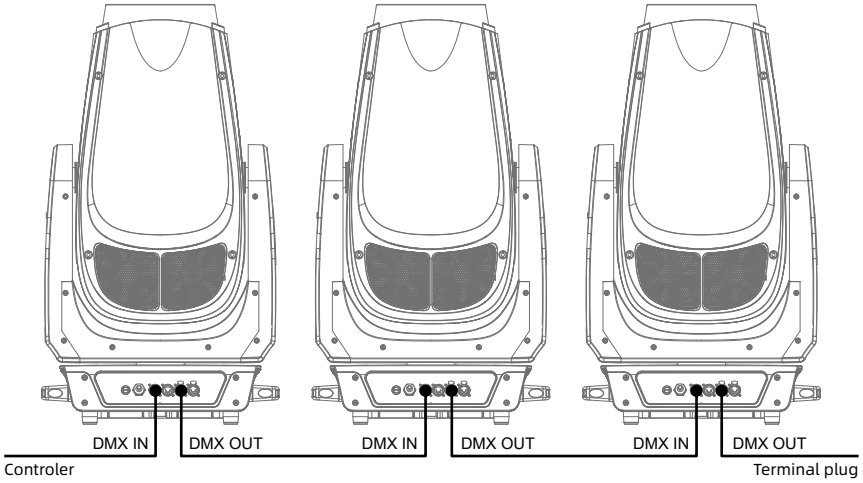
Waining !

- 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.

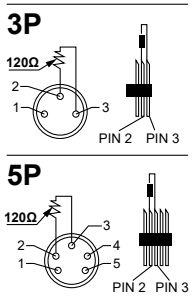
6.3 Signal connect



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.

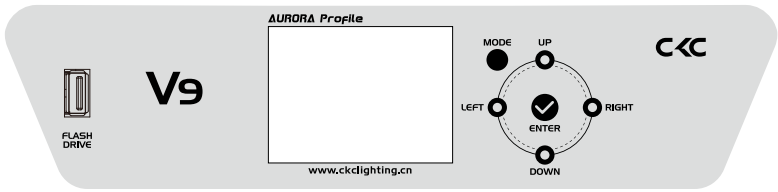


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on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



7. Control panel

7.1 Panel Introduction



● Adopting a 2.8 "LCD display screen, the operation panel is equipped with a rechargeable battery, which can enter the menu to set address codes and make other settings without powering on;

● 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.

7.2、System menu

Note: The gray color block is the default setting value

Software Update Please Wait... CKC Fixture Type Check V9 Motor Reset			
SET	Dmx Presets	A001~AXXX	
	User Mode	Standard (39CH) Extend (57CH) CMY MODE (37CH)	
Function	Status	No DMX Mode P.Reverse T.Reverse Pan Degree Feedback Move.Speed Hibernation	Black/Hold/Auto ON/OFF ON/OFF 630/540 ON/OFF Speed 1~ 4 OFF, 01M~99M, 15M
	Dim Mode	Standard Stage TV Architectural Theatre	
	Temp. C/F	Celsius Fahrenheit	
	Dim Curve	Linear Square Inv-Square S-Curve	
	Frequency	1200Hz/3600Hz/5000Hz/10KHz/15KHz/20KHz/25KHz	
	Power Mode	Normal/ Theatre	

	CTO Mode	Mode1/Mode2	
	Fan Set	Head Fan	Auto High Low
		Base Fan	Auto High Low
	LCD.Set	Backlight Flip Display Key Lock DispFlash Language	01~60m OFF/ON OFF/ON OFF/ON English
	Disp.Set	Channel Value Slave Set Auto.Prog	PAN..... Slave1,Slave2,Slave3 Master / Alone
	DFSE	OFF/ON	
	USB Update	OFF/ON	
Test	Reset.M	All Pan&Tilt Other	
	Test.Chan	PAN	
	Panel.Ctrl.	PAN =XXX :	
	Calibrate	-Password 050- PAN :	
Info	Time.Info	Current (Hours) Total Time (Hours) Last Time (Hours) Timer PIN (Password=50) Clear Last (ON/OFF)	
	Temp. Info	Base Temp. Head Temp.	
	Fan Speed	Base Fan1:xxxx RPM Base Fan2: xxxx RPM Cool Fan1: xxxx RPM	
	Error. Info	Pan,Tilt.....	
	Model. Info	V9	
	Software.V	1U V 1.0.X 2U V 1.0.X 3U V 1.0.X 4U V 1.0.X 5U V 1.0.X 6U V 1.0.X	

8. DMX channel table:

Value			Function	
St	Ex	CMY		
1	1	1	0-255	**PAN Movement 8bit**
				Pan Movement By 630/540
2	2	2	0-255	**Pan Fine 16bit**
				Fine control of Pan movement
3	3	3	0-255	**TILT Movement 8bit**
				Tilt Movement
4	4	4	0-255	**Tilt Fine 16bit**
				Fine control of Tilt movement
5	5	5	0-255	**Dimmer (intensity)**
				Intensity 0 to 100%
6	6	6	0-255	**Dimmer Fine**
				Intensity 0 to 100%
7	7	7		**Shutter, strobe**
			0-31	No function (shutter closed)
			32-63	No action,shutter open
			64-95	Slow to fast strobe
			96-127	No action,shutter open
			128-159	Slow to fast pulse effect
			160-191	No action,shutter open
			192-223	Slow to fast random strobe
			224-255	No action,shutter open
8	8		0-255	**Red:**
				Intensity 0 to 100%
	9		0-255	**Red Fine:**
				Intensity 0 to 100%
9	10		0-255	**Green:**
				Intensity 0 to 100%
	11		0-255	**Green Fine:**
				Intensity 0 to 100%
10	12		0-255	**Blue:**
				Intensity 0 to 100%
	13		0-255	**Blue Fine:**
				Intensity 0 to 100%
11	14		0-255	**Amber:**
				Intensity 0 to 100%
	15		0-255	**Amber Fine:**
				Intensity 0 to 100%

12	16		0-255	**Lime:**
				Intensity 0 to 100%
	17		0-255	**Lime Fine:**
				Intensity 0 to 100%
		8	0-255	**CYAN:**
				Intensity 0 to 100%
		9	0-255	**Magenta:**
				Intensity 0 to 100%
		10	0-255	**YELLOW:**
				Intensity 0 to 100%
13	18	11		**Color Macros:**
			0	No function
			1-70	Color Macros(see separate sheet)
			71-255	open
14	19	12		**CTO Mode1:**
			0-17	No function
			18 -100	1800K - 10000K(1DMX → 100K)
			101-120	3200K
			121-140	4500K
			141-160	5600K
			161-180	6500K
			181-200	7500K
			201-220	8000K
			221-255	No function
14	19	12	0-255	**CTO Mode2:**
				6500K-1800K
15	20	13		**Green Shift:**
			0	No function
			1-127	Full Minus Green to Neutral
			128	Neutral White
			129-255	Neutral to Full Plus Green
16	21	14	0-255	**Colour**
				Yellow
	22		0-255	**Colour Fine**
				Yellow Fine
				Rotating gobos, cont. rotation
			0~5	Open/Hole
			6~20	Gobo 1
			21~35	Gobo 2
			36~50	Gobo 3
			51~65	Gobo 4
			66~80	Gobo 5
			81~95	Gobo 6
			96~110	Gobo 1 shake, from slow to fast
17	23	15	111~125	Gobo 2 shake, from slow to fast
			126~140	Gobo 3 shake, from slow to fast
			141~155	Gobo 4 shake, from slow to fast
			156~170	Gobo 5 shake, from slow to fast
			171~185	Gobo 6 shake, from slow to fast
			186- 192	Open
			193~223	Gobo Wheel rot. Slow -> Fast, CW
			224~224	Stop
			225~255	Gobo Wheel rot. Fast -> Slow, CCW
				Rotating gobo index, rotating gobo rotation
			000-128	GoboRot indexing
18	24	16	129-191	Gobo Wheel rot. Slow -> Fast, CW
			192-192	Stop
			193-255	Gobo Wheel rot. Fast -> Slow, CCW
19	25	17	000-255	**Rotating gobo index Fine**
				Fixed Gobos Wheel
			0~5	Open
			6~18	FixedGobo1
			19~31	FixedGobo 2
			32~44	FixedGobo 3
			45~57	FixedGobo 4
			58~70	FixedGobo 5
			71~83	FixedGobo 6
			84~96	FixedGobo 7
20	26	18	97-109	FixedGobo 1 shake,from slow to fast
			110~122	FixedGobo 2 shake,from slow to fast
			123~135	FixedGobo 3 shake,from slow to fast
			136~148	FixedGobo 4 shake,from slow to fast
			149~161	FixedGobo 5 shake,from slow to fast
			162~174	FixedGobo 6 shake,from slow to fast
			175~187	FixedGobo 7 shake,from slow to fast
			188~192	Open
			193~223	Gobo Wheel rot. Slow -> Fast, CW
			224~224	Stop
			225~255	Gobo Wheel rot. Fast -> Slow, CCW
21	27	19	0-255	**Zoom**
				Zoom from min. to max.beam angle

	28		0-255	**Zoom-fine**
				Zoom Fine
22	29	20	0-255	**Focus**
				Continuous adjustment from far to near
	30		0-255	**Focus-fine**
				Focus Fine
23	31	21		**Iris:**
			0-191	Iris:0 - 100%(Linear)
			192-236	Pulse opening effect from slow to fast
			237-245	Pulse closing effect from slow to fast
			246-255	Iris rotation slow to fast
	32		0-255	**Iris-fine**
				Fine iris movement
24	33	22		**Prism:**
			0-5	Open
			6-130	Prism 1 (6 liner Prism)
			131-255	Prism 2 (4 Facet Prism)
25	34	23		**Prism rotation:**
			000-005	Prism indexing
			006-128	Prism Position 0 ... 540°
			129-191	Prism Rotation, Slow -> Fast, CW
			192-192	Stop
			193-255	Prism Rotation, Fast -> Slow, CCW
26	35	24	0-255	**Frost:**
				Frost:0 - 100%(Linear)
27	36	25	0-255	**Frost2:**
				Frost:0 - 100%(Linear)
28	37	26		**Animation1:**
			0-5	open
			6-128	Wheel Position 0 ... 540°
			129-191	Wheel rot. Slow -> Fast, CW
			192-192	Wheel rot. Stop
			193-255	Wheel rot. Fast -> Slow, CCW
29	38	27	0-255	**Framing shutters module rotation**
				Rotation from right 0° to 120°
	39		0-255	**Framing shutters module rotation Fine(16Bit)**
				Fine Rotation from right 0° to 120°
30	40	28	0-255	**Blade 1A**
				Movement from Outward to Inward
	41		0-255	**Blade 1A Fine**
				Movement from Outward to Inward

31	42	29	0-255	**Blade 1B**
				Movement from Outward to Inward
	43		0-255	**Blade 1B Fine**
				Movement from Outward to Inward
32	44	30	0-255	**Blade 2A**
				Movement from Outward to Inward
	45		0-255	**Blade 2A Fine**
				Movement from Outward to Inward
33	46	31	0-255	**Blade 2B**
				Movement from Outward to Inward
	47		0-255	**Blade 2B Fine**
				Movement from Outward to Inward
34	48	32	0-255	**Blade 3A**
				Movement from Outward to Inward
	49		0-255	**Blade 3A Fine**
				Movement from Outward to Inward
35	50	33	0-255	**Blade 3B**
				Movement from Outward to Inward
	51		0-255	**Blade 3B Fine**
				Movement from Outward to Inward
36	52	34	0-255	**Blade 4A**
				Movement from Outward to Inward
	53		0-255	**Blade 4A Fine**
				Movement from Outward to Inward
37	54	35	0-255	**Blade 4B**
				Movement from Outward to Inward
	55		0-255	**Blade 4B Fine**
				Movement from Outward to Inward
38	56	36		**Dim Modes**
			0-20	Standard
			21-40	Stage
			41-60	TV
			61-80	Architectural
			81-100	Theater
			101-255	Default to Unit Setting
				Lamp on/off, reset, internal programs
			0-5	No function
			6-10	Display OFF(Hold 3s)
			11-15	Display ON(Hold 3s)
			16-20	Invert Pan on (Hold 3s)
			21-25	Invert Pan off (Hold 5s)

39	57	37	26-30	Invert Tilt on (Hold 3s)
			31-35	Invert Tilt off (Hold 5s)
			36-39	Fan Auto (Default)
			40-42	Fan Silent (Hold 3s)
			43-45	Fan High(Hold 3s)
			46-50	Linear Dimmer Curve (hold 3s)
			51-55	Square Dimmer Curve (hold 3s)
			56-60	Inv-Square Dimmer Curve (hold 3s)
			61-65	S - Dimmer Curve (hold 3s)
			66-70	Led Freq. 1200 Hz (hold 3s)
			71-75	Led Freq. 3600 Hz (hold 3s)
			76-80	Led Freq. 5000 Hz (hold 3s)
			81-85	Led Freq. 10.000 Hz (hold 3s)
			86-90	Led Freq. 15.000 Hz (hold 3s)
			91-95	Led Freq. 20.000 Hz (hold 3s)
			96-100	Led Freq. 25.000 Hz (hold 3s)
			101-105	All motor reset(hold 3s)
			106-110	P/T motor reset(hold 3s)
			111-115	Other motor reset(hold 3s)
			116-120	Power Mode Normal
			121-125	Power Mode Theatre
			126-130	DTW ON
			131-135	DTW OFF
			136-140	CTO Mode1 (Default)
			141-145	CTO Mode2
			146-255	No function

Virtual Swatch Book

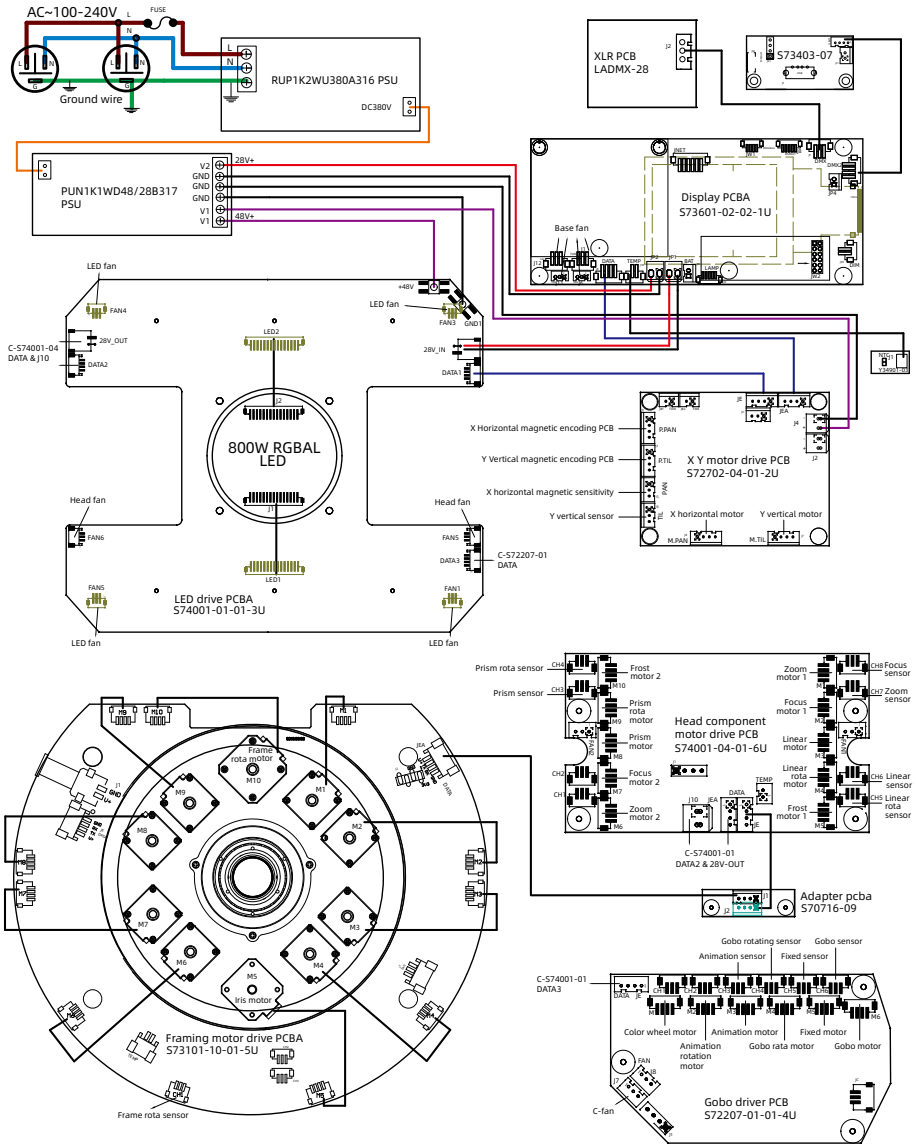
Value	Filter Number	Name
1	4	Medium bastard amber
2	10	Medium yellow
3	15	Deep straw
4	19	Fire
5	21	Gold amber
6	22	Dark amber
7	24	Scarlet
8	26	Bright red
9	27	Medium red
10	36	Medium pink
11	46	Dark magenta
12	48	Rose purple

Value	Filter Number	Name
52	164	Flame red
53	165	Daylight blue
54	169	Lilac tint
55	170	Deep lavender
56	172	Lagoon blue
57	179	Loving amber
58	180	Dark lavender
59	181	Congo blue
60	197	Alice blue
61	200	Double c.T. Blue
62	201	Full c.T. Blue
63	202	Half c.T. Blue

13	49	Medium purple
14	68	Sky blue
15	71	Tokyo blue
16	79	Just blue
17	88	Lime green
18	90	Dark yellow green
19	100	Spring yellow
20	101	Yellow
21	102	Light amber
22	103	Straw
23	104	Deep amber
24	105	Orange
25	106	Primary red
26	111	Dark pink
27	113	Magenta
28	115	Peacock blue
29	116	Medium blue-green
30	117	Steel blue
31	118	Light blue
32	119	Dark blue
33	120	Deep blue
34	122	Fern green
35	128	Bright pink
36	131	Marine blue
37	132	Medium blue
38	134	Golden amber
39	135	Deep golden amber
40	136	Pale lavender
41	137	Special lavendrer
42	138	Pale green
43	139	Primary green
44	141	Bright blue
45	147	Apricot
46	148	Bright rose
47	152	Pale gold
48	154	Pale rose
49	157	Pink
50	158	Deep orange
51	162	Bastard amber

64	203	Quarter c.T. Blue
65	204	Full c.T. Orange
66	205	Half c.T. Orange
67	206	Quarter c.T. Orange
68	248	Half miuns green
69	285	Three quarter c.T.Orange
70	793	Vanity fair
71		Pale blue
72		Dark salmon
73		Light amber
74		Fire
75		Dark amber
76		Lavender tint
77		Pale green
78		Forest green
79		Ct straw
80		1/2 Ct straw
81		Sally green1
82		Sally green2
83		Sally green3
84		Rust
85		Aurora borealis green
86		Medium yellow
87		Deep golden amber
88		Light pink
89		Medium bastar
90		Magenta
91		Dark blue
92		Rose purple
93		Deep amber
94		Follies pink
95		3/4 Blue
96		Plum
97		Lo sodium1
98		Lo sodium2
99		Lo sodium3
100		Elysian blue
101		Mauve
102		Sunset red

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
	Damaged cooling fan or abnormal wind speed	Replace
	Check the power output of the fan	Check/ Replace
	The temperature control switch is damaged	Replace
Gobo wheel misalignment or abnormal control	Poor contact of motor wire	Reconnect
	Corresponding motor drive board malfunction	Refixed
	Misalignment or magnetic damage between the magnetic tube and the positioning magnet	Adjust/Replace
	Motor malfunction	Replace
Weak light efficiency and uneven light spot	LED aging	Replace
	LED not centered with the lens	Adjust LED
	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
Gobo is unclear	The optical mirror has accumulated dust or stains	Clean
	The optical mirror is damaged	Replace
Head or base fan stops rotating	Check if the fan leads are installed properly or disconnected	Re connect
	Check if the fan is damaged	Replace
	Check if there are any other interfering objects within the operating range of the fan	Adjust

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