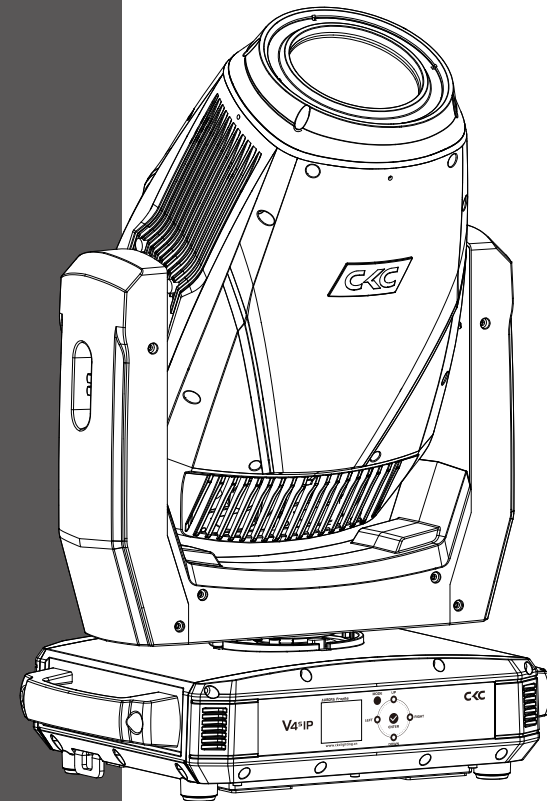


# CKC

# V4<sup>S</sup>IP



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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.

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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 IP65 and can be used both indoors and outdoors;
- 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 2m.



- 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.



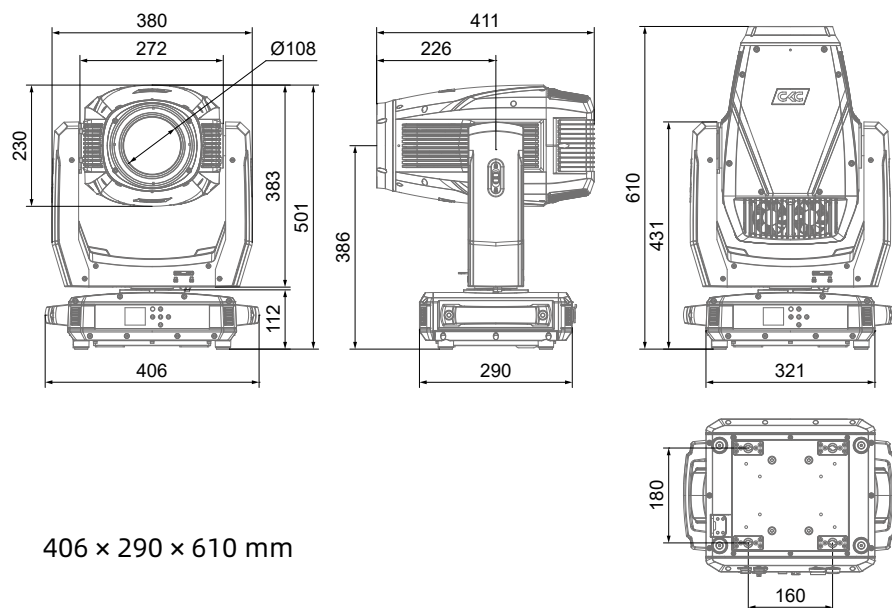
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 60 °C , please do not touch it 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

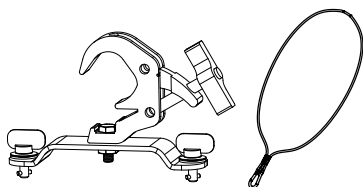
### 2.1 Exterior dimensions of lighting fixtures



406 × 290 × 610 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

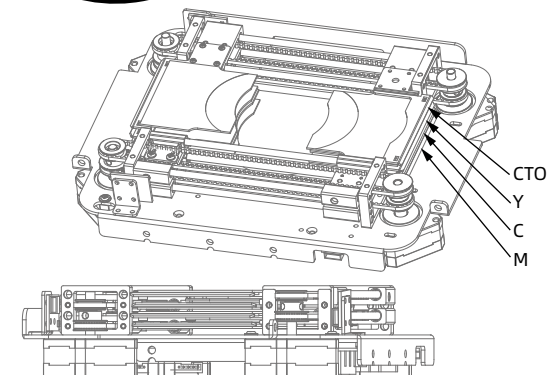
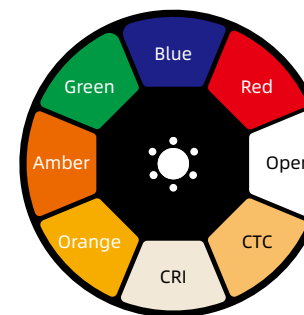
Rated input voltage: AC 100V~240V~ 50Hz/60Hz  
 Rated power of the entire fixture: 561W  
 Power factor: 0.999F  
 Input Current: 2.68A 220V

### ● Source lifespan

>20000 hours

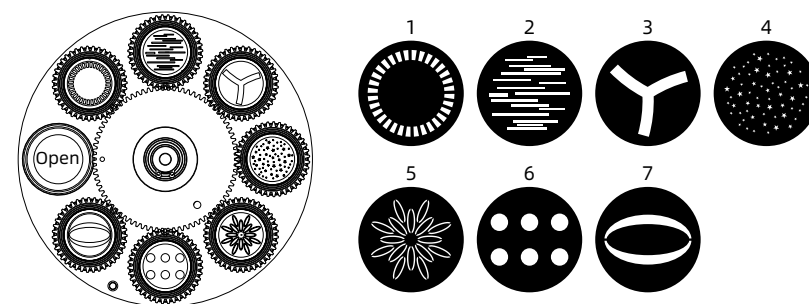
### ● Color system

CCT: 6500K  
 CRI: 72  
 Color wheel: 7+1  
 CMY+CTO



### ● Gobo system

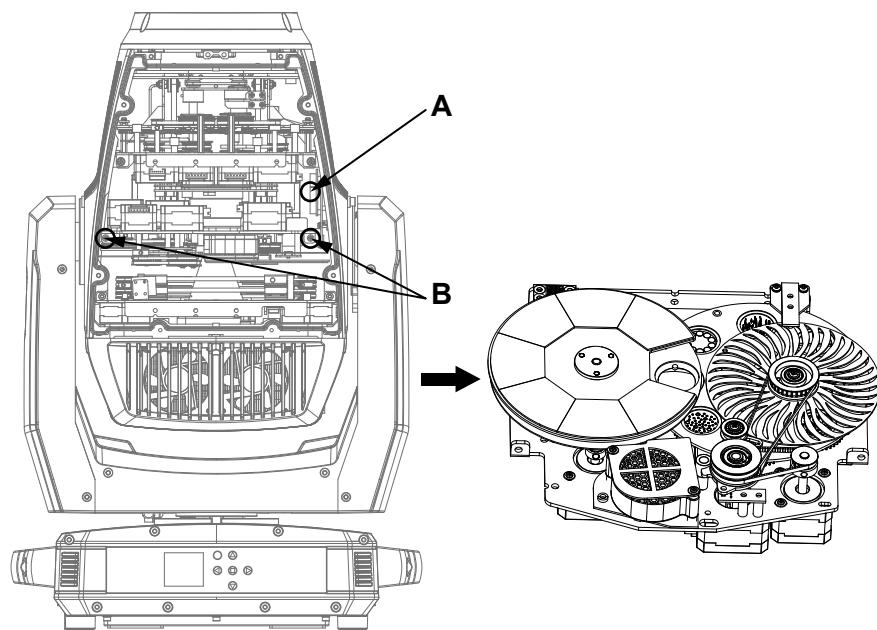
Gobo outer diameter: 23 ±0.2 mm  
 Internal diameter: 19mm  
 Thickness: 1.1mm



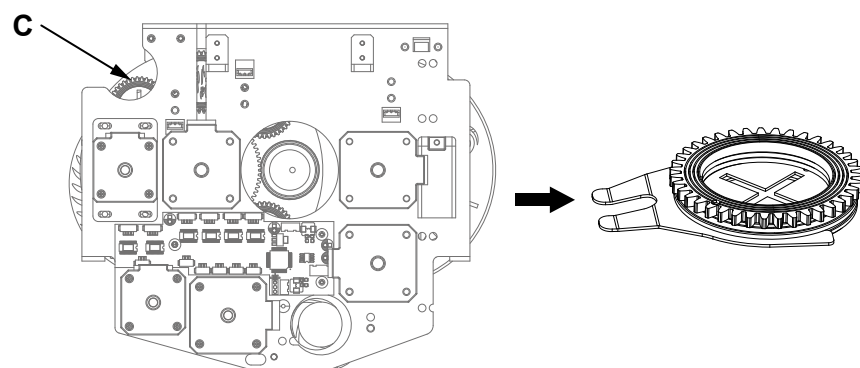
## Gobo replace

### 1) Rotation gobo wheel

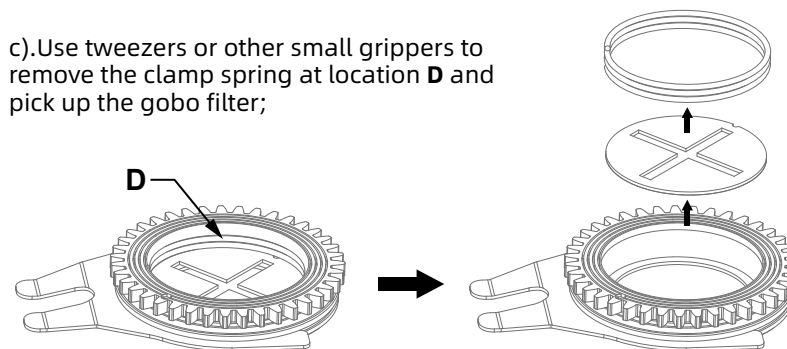
a). Pull out the power and signal adapter cable at point **A**, remove the two screws at point **B**, and extract the gobo component (note: when the zoom component is located at the bottom, it interferes with the gobo component and needs to be pushed open before removing the gobo component);



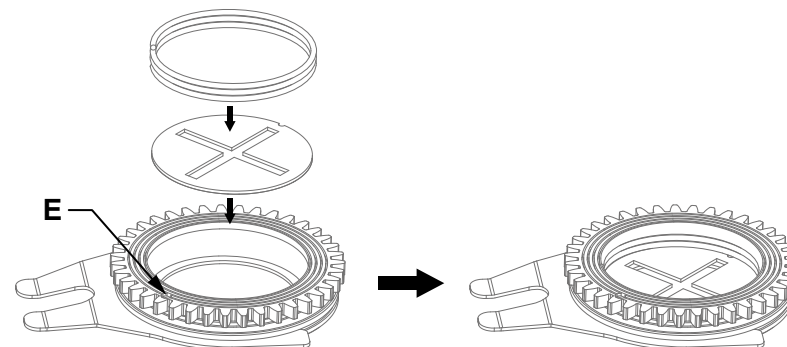
b). Gently lift the driven wheel upwards from the edge at point **C** on the back of the gobo component and slowly pull it out to remove a single gobo holder;



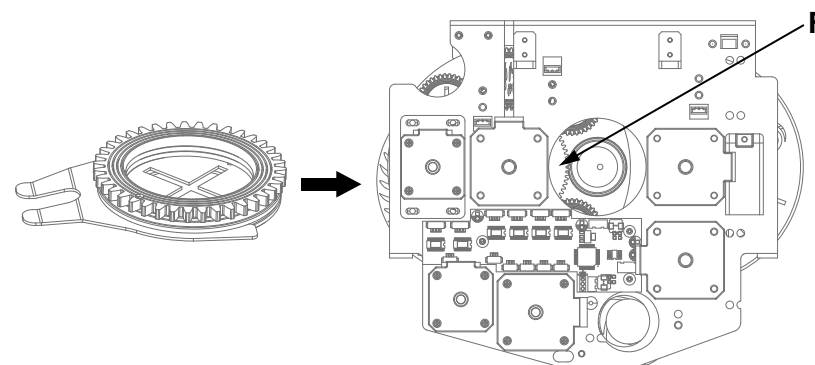
c). Use tweezers or other small grippers to remove the clamp spring at location **D** and pick up the gobo filter;



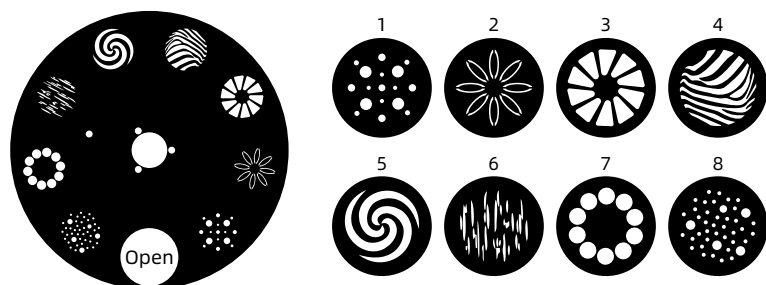
d). When assembling the Gobo, the black spray on the Gobo should face upwards and align the notch position with the positioning point (depression) at the driven wheel component **E**;



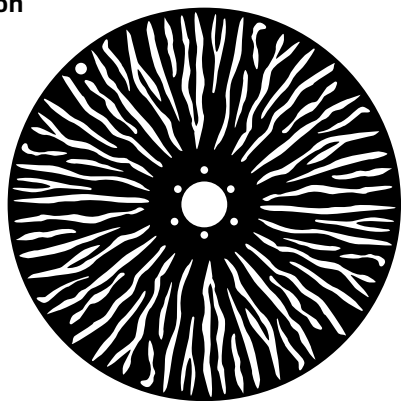
e). Insert the gobo holder into the drive wheel assembly from position **F**, and align the positioning point of the gobo holder with the positioning point of the drive wheel (concave area); After installation, simply reinstall the gobo wheel component onto the fixture.



## Fixed gobo wheel

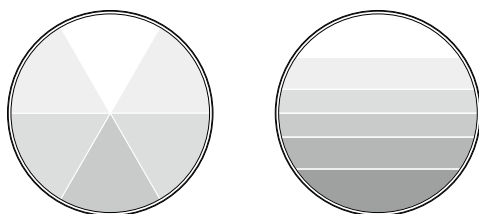


## ● Animation



## ● Prism system

6 prism+ 6 linear



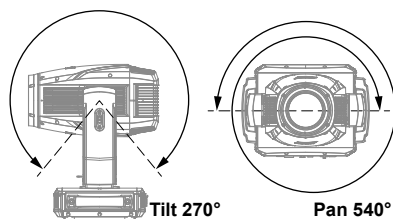
## ● Pan/Tilt

## Pan scan:

540° or 630° 8-bit/16bit resolution scanning

## Tilt scan:

270° 8-bit/16bit precision scanning



## ● Optical system

Beam angle: 7 ~ 40°

Source: 320W CW LED

Output luminous flux: 17300 Lm

## ● Control and programming

Control channel: 24CH/29CH/36CH

Protocol: DMX512, RDM

Data connect: 3 or 5 pin signal in/out

## ● Illumination draw

7°	5	8	15	30
Lux	33800	13400	3755	933
Distance(m)	0.61	0.98	1.83	3.67

40°	5	8	15	30
Lux	2000	1070	222	55
Distance(m)	3.64	5.82	10.92	21.84

## ● Other effect function

Fast electronic strobe: 1~25Hz

LED refresh frequency: 900Hz-25KHz

Frost: Light frost+heavy frost

Iris

## ● Other features and functions

Weight: 27.7 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

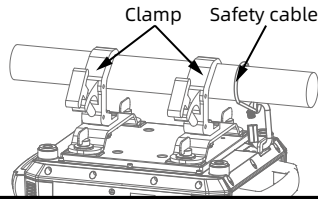
- 1). Disconnect the power supply before packaging the lighting fixtures to allow them to cool completely;
- 2). Flight cases can only be stacked in two layers and are not allowed to be reversed.



## 5. Installation Requirements Explanation

### 5.1 Clamp install

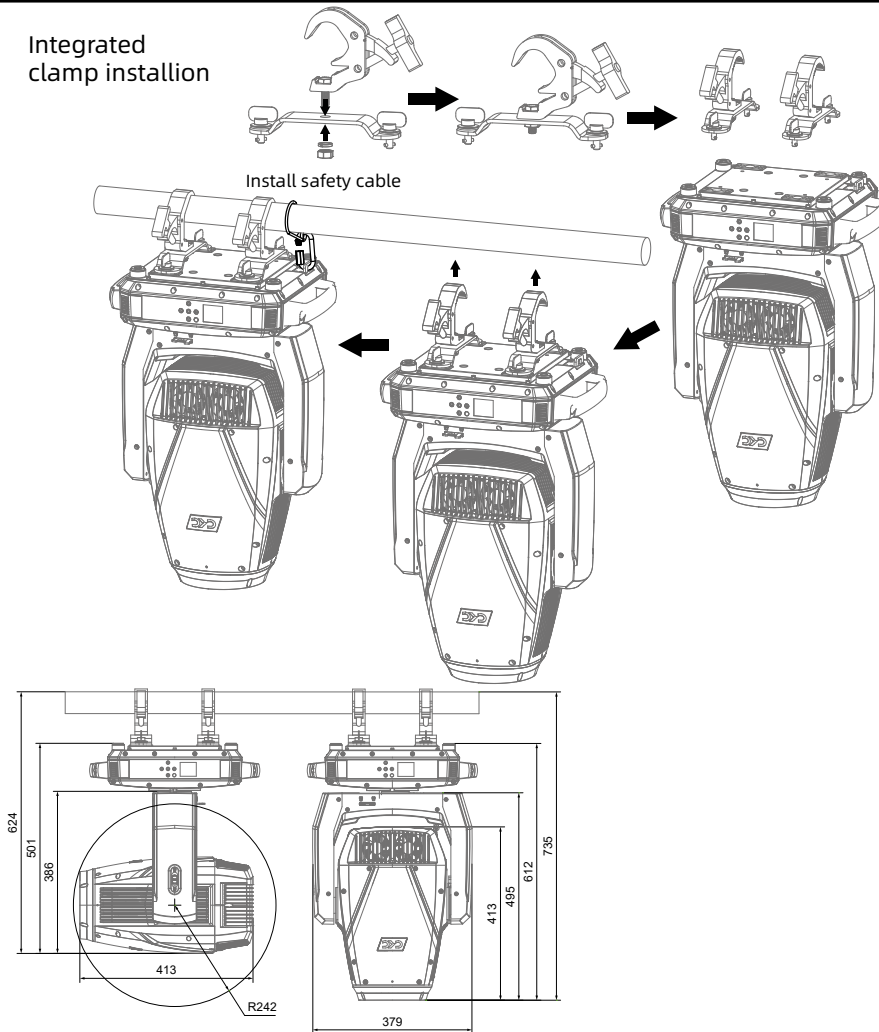
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.



### Warning !

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.

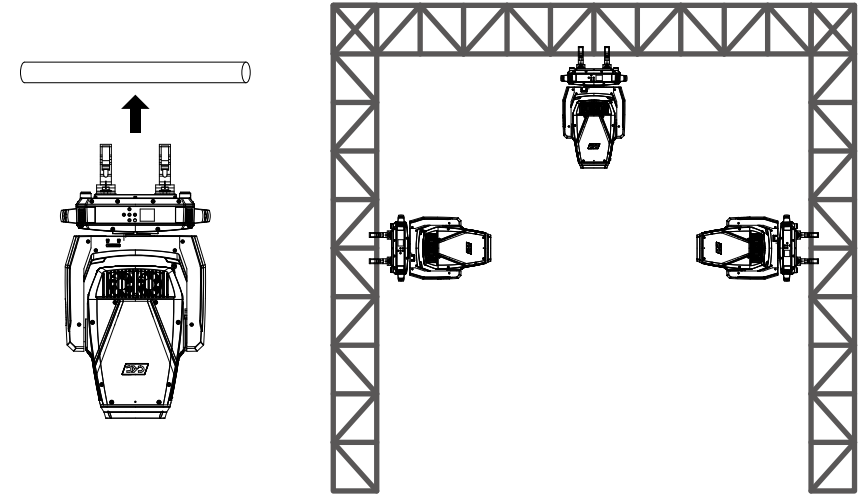
Integrated clamp installation



### 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).

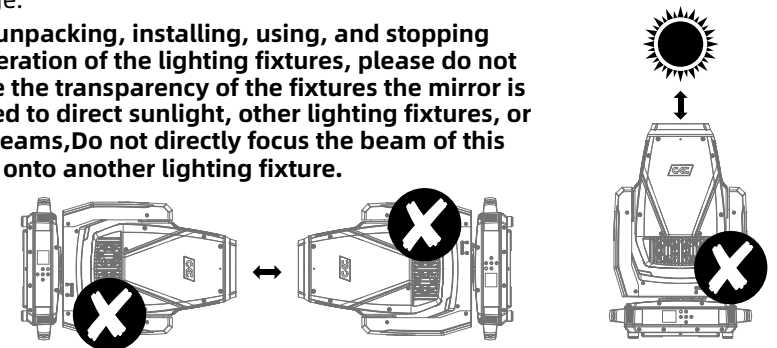
### 5.3 Hanging Installation Diagram



**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.

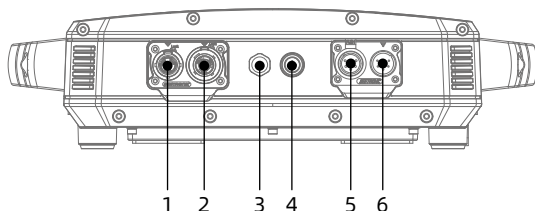
**When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams. Do not directly focus the beam of this device onto another lighting fixture.**



## 6. Power、Signal connect

### 6.1 Power and signal socket

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



### 6.2 Power connect

#### Connection method:

**L**(live wire) - brown wire

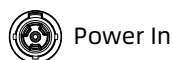
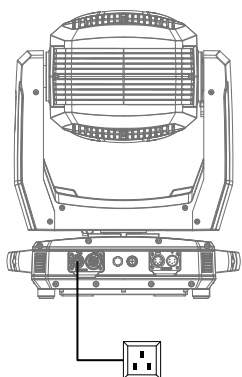
**E**(Ground wire) - yellow/green dual color line

**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.



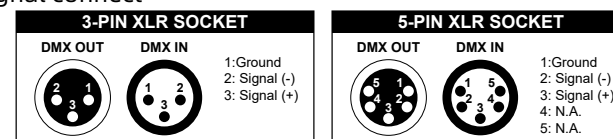
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 3 products at 220V and 1 product at 110V.

#### Warning !

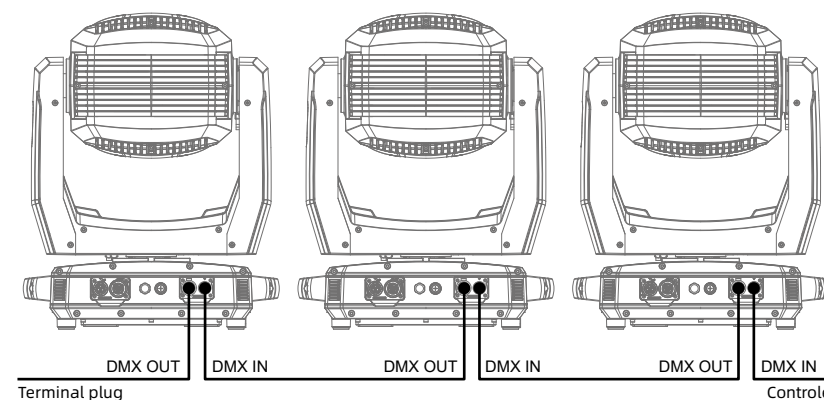
- Do not connect too many fixtures or overload a single power cord;
- Do not use power cords with damaged insulation layers, and do not place power cords on other wires;
- When the fixture is not in use or cleaned, please unplug the power cord; Do not forcefully unplug or drag the power cord directly.



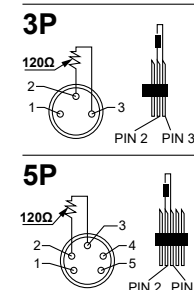
### 6.3 Signal connect



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.

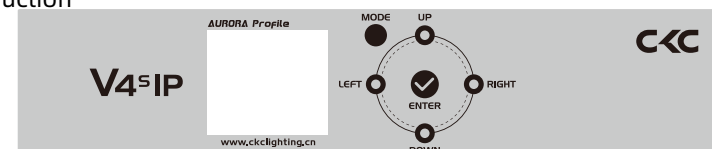


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 pin socket of each connected lamp output. (Weld a 4/1W, 120  $\Omega$  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 1.8 "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 V4s IP Motor Reset Please Wait...			
DMX Settings	Set Address	A001~AXXX	
	DMX Channel Mode	Basic 24 Standard29 Extend 36	
	No DMX Status	Hold Last Blackout Manual Internal Programs	
	Prim/Sec Mode	Primary Secondary	
	Status Settings	Pan Degree Pan Invert Tilt Invert P./T. Feedback P./T. Speed Hibernation	630/540 ON/OFF ON/OFF ON/OFF Speed 1~ 2 OFF,01M~99M,15M
	Fan Settings	Head	Auto High Low
		Base Fan	Auto High Low
	Zoom Speed	Standard Fast	
	Dim Modes	Standard Stage TV Architectural Theatre Stage2 Dim Speed(0.1s-10s)	

Personality	LED Refresh Rate	900~1500Hz,2500Hz,4000Hz,5000Hz,6000Hz,10KHz,15KHz,20KHz,25KHz,1200Hz	
	Dim Curve	Square Linear Inverse Square S-Curve	
	Reset Motors	Reset All Motors Pan/Tilt Reset Color Reset Gobo Reset Focus/Zoom Reset Shutter Reset	YES / NO YES / NO YES / NO YES / NO YES / NO YES / NO
	Display	Intensity Display Invert Screen Saver Delay Key Lock	1-10 YES/NO OFF-10M 05M OFF/ON/ON1
	Service	Passcode  Factory Restore (Passcode11)	Effect Adjust (Calibration) 050 PAN 000-255 Tilt 000-255 Color1 000-255 ... YES / NO
Manual Control	Pan	000-255	
	Pan Fine	000-255	
	Tilt	000-255	
	Tilt Fine	000-255	
	....	000-255	
Internal Programs	Program 1	Speed	000-255
		Fade	000-255
	Program 2	Speed	000-255
		Fade	000-255
	Program 3	Speed	000-255
		Fade	000-255
	Program 4	Speed	000-255
		Fade	000-255
	Program 5	Speed	000-255
		Fade	000-255
	Program 6	Speed	000-255
		Fade	000-255
	Program 7	Speed	000-255
		Fade	000-255
Fixture Life Time	Power On Time	xxxxxx Hours	
	P-On Time-R	xxxxxx Hours	
	P-On Time-Reset	Passcode 50	

Info	Total LED Time	LED On Time		xxxxxx Hours
		LEDO n Time-R		xxxxxx Hours
		LED Hours Reset		Passcode 50
	Fixture Temps	LED's	Current	xxx F / xxx C
			Max Resettable	
		Base Temp	Current	
			Max Resettable	
		Reset LED Temp	YES/ <b>NO</b> Passcode 050	
		Reset Base Temp	YES/ <b>NO</b> Passcode 050	
	Fan Info.(RPM)	LED Fan Base Fan	xxxxRPM xxxxRPM	
	DMX Values	Pan		
		Pan Fine		
		...		
		Frost		
	Error Logs	XXXXX XXXXX	List Errors one by one	
		Reset Error Log	YES/ <b>NO</b> Passcode (50)	
		Software Version	1U: X.X.X 2U: X.X.X 3U: X.X.X	

### 8. DMX channel table:

24	29	36	Function	Values	
1	1	1	Pan	0~255	Pan Movement (540/630)
	2	2	Pan fine	0~255	Pan Fine
2	3	3	Tilt	0~255	Tilt Movement (270)
	4	4	Tilt fine	0~255	Tilt Fine
3	5	5	Cyan	0~255	0% to 100%
		6	Cyan Fine	0~255	0% to 100%
4	6	7	Magenta	0~255	0% to 100%
		8	Magenta Fine	0~255	0% to 100%
5	7	9	Yellow	0~255	0% to 100%
		10	Yellow Fine	0~255	0% to 100%
6	8	11	CTO	0~255	0% to 100%
		12	CTO Fine	0~255	0% to 100%
7	9	13	White Color Temp Presets	0~23	Open
				24~63	See WCT Preset Chart
				65~255	6700K

8	10	14	Color Wheel	0~4	Open
				5~17	Open / Red
				18~30	Red
				31~43	Red / Medium Blue
				44~56	Medium Blue
				57~69	Medium Blue / Green
				70~82	Green
				83~95	Green / Amber
				96~108	Amber
				109~121	Amber / Orange
				122~134	Orange
				135~147	Orange / High CRI Filter
				148~160	High CRI Filter
				161~173	High CRI Filter / CTB
				174~186	CTB
				187~199	CTB / Open
				200~226	Clockwise Color Wheel Rotation, Fast -> Slow
				227~228	No Rotation
				229~255	Counter Clockwise Color Wheel Rotation, Slow -> Fast
			Color Macros - CMY and Color Wheel	0~31	OFF
				32~39	Macro1
				40~47	Macro2
				48~55	Macro3
				56~63	Macro4
				64~71	Macro5
				72~79	Macro6
				80~87	Macro7
				88~95	Macro8
				96~103	Macro9
				104~111	Macro10
				112~119	Macro11
				120~127	Macro12
				128~135	Macro13
				136~143	Macro14
				144~151	Macro15
				152~159	Macro16
				160~167	Macro17
				168~175	Macro18
				176~183	Macro19
				184~191	Macro20
				192~199	Macro21
				200~207	Macro22
				208~215	Macro23

				216~223	Macro24
				224~231	Macro25
				232~239	Macro26
				240~247	Macro27
				248~255	Random CMY
9	12	16	Gobo Wheel 1	0~9	Open
				10~19	Gobo 1
				20~29	Gobo 2
				30~39	Gobo 3
				40~49	Gobo 4
				50~59	Gobo 5
				60~69	Gobo 6
				70~79	Gobo 7
				80~94	Gobo 1 shake (slow-fast)
				95~109	Gobo 2 shake (slow-fast)
				110~124	Gobo 3 shake (slow-fast)
				125~139	Gobo 4 shake (slow-fast)
				140~154	Gobo 5 shake (slow-fast)
				155~169	Gobo 6 shake (slow-fast)
				170~189	Gobo 7 shake (slow-fast)
				190~221	Clockwise Gobo Wheel Rotation, Fast -> Slow
				222~223	No Rotation
				224~255	Counter Clockwise Gobo Wheel Rotation, Slow -> Fast
10	13	17	Gobo 1 Rotation	0~5	Gobo1 Rot. Off
				6~128	Gobo Index 0° ... 540°
				129~191	Clockwise Gobo Rotation, Fast -> Slow
				192~192	No Rotation
				193~255	Counter Clockwise Gobo Rotation, Slow -> Fast
		18	Gobo 1 Rotation fine	0~255	Gobo indexing fine
11	14	19	Gobo Wheel 2	0~5	Open
				6~14	Gobo 1
				15~23	Gobo 2
				24~32	Gobo 3
				33~41	Gobo 4
				42~50	Gobo 5
				51~59	Gobo 6
				60~68	Gobo 7
				69~77	Gobo 8
				78~91	Gobo 1 shake (slow-fast)
				92~105	Gobo 2 shake (slow-fast)
				106~119	Gobo 3 shake (slow-fast)
				120~133	Gobo 4 shake (slow-fast)

				134~147	Gobo 5 shake (slow-fast)
				148~161	Gobo 6 shake (slow-fast)
				162~175	Gobo 7 shake (slow-fast)
				176~189	Gobo 8 shake (slow-fast)
				190~221	Clockwise Gobo Wheel Rotation, Fast -> Slow
				222~223	No Rotation
				224~255	Counter Clockwise Gobo Wheel Rotation, Slow -> Fast
12	15	20	Shutter	0~31	Shutter closed
				32~63	Shutter open
				64~95	Strobe Slow to fast
				96~127	Shutter open
				128~159	Pulse effect Slow to fast
				160~191	Shutter open
				192~223	Random strobe Slow to fast
				224~255	Shutter open
13	16	21	Dimmer	0~255	Intensity 0 to 100%
	17	22	Dimmer fine	0~255	Dimmer Intensity Fine
14	18	23	Prisms and Prism/Gobo Macros	0~5	No Prism - Open
				6~66	Prism 1 (6 Linear Prism)
				67~127	Prism 2 (4 Facet Prism)
				128~135	Macro1
				136~143	Macro2
				144~151	Macro3
				152~159	Macro4
				160~167	Macro5
				168~175	Macro6
				176~183	Macro7
				184~191	Macro8
				192~199	Macro9
				200~207	Macro10
				208~215	Macro11
				216~223	Macro12
				224~231	Macro13
15	19	24	Prism Rotation	232~239	Macro14
				240~247	Macro15
				248~255	Macro16
				0~5	Prism Rot. Off
				6~128	Prism Indexing 0 ... 540°
				129~191	Clockwise Prism Rotation, Fast -> Slow
16	20	25	Focus	192~192	No Rotation
				193~255	Counter Clockwise Prism Rotation, Slow-> Fast
				0~255	0% to 100%

		26	Focus fine	0~255	0% to 100%
17	21	27	Zoom	0~255	Narrow to wide
		28	Zoom fine	0~255	Narrow to wide 16-bit
18	22	29	Medium Frost	0~255	0% to 100%
19	23	30	Heavy Frost	0~255	0% to 100%
20	24	31	Animation	0~5	Wheel Rot. Off
				6~128	Animation Index 0 ... 540°
				129~191	Clockwise Animation Rotation, Fast -> Slow
				192~192	No Rotation
				193~255	Counter Clockwise Animation Rotation, Slow-> Fast
21	25	32	Dimmer Mode	0~20	Default to Unit Setting
				21~40	Standard
				41~60	Stage
				61~80	TV
				81~100	Architectural
				101~120	Theater
				121~140	Stage 2
				141	0.1 Sec.
				142	0.2 Sec.
				143	0.3 Sec.
				144	0.4 Sec.
				145	0.5 Sec.
				146	0.6 Sec.
				147	0.7 Sec.
				148	0.8 Sec.
				149	0.9 Sec.
				150	1.0 Sec.
				151	1.5 Sec.
				152	2.0 Sec.
				153	3.0 Sec.
				154	4.0 Sec.
				155	5.0 Sec.
				156	6.0 Sec.
				157	7.0 Sec.
				158	8.0 Sec.
				159	9.0 Sec.
				160	10 Sec.
				161~255	Default to Unit Setting
	26	33	Dim Curves	0~20	Square
				21~40	Linear
				41~60	Inv. Squa
				61~80	S. Curve

				81~255	No function
22	27	34	CMY & Color Macro Speed	0~255	CMY / Color Macro Speed Max -> Min
23	28	35	Pan/Tilt Speed	0~225	Pan/Tilt Fast -> Slow
				226~235	Blackout by movement
				236~245	Blackout by all wheel changing
				246~255	No function
				0~39	No function(1200 Hz LED Refresh Rate (Default)
				40~49	Fan Control - Low (Hold 3s)
				50~59	Fan Control - High (Hold 3s)
				60~69	Fan Control - Auto (Default) (Hold 3s)
				70~74	All motor Reset (Hold 3s)
				75~79	Pan / Tilt Reset (Hold 3s)
				80~84	Color Reset (Hold 3s)
				85~89	Gobo Reset (Hold 3s)
				90~94	Focus and Zoom Reset (Hold 3s)
				95~99	Shutter Reset (Hold 3s)
				100~104	No function
				105~109	Other motors Reset (Hold 3s)
				110~114	Enable Zoom Speed Fast(Hold 3s)
				115~119	Disable Zoom Speed Fast(Hold 3s)
				120~152	No function
				153~154	Hibernation Enable (Hold 3s)
				155~156	Hibernation OFF (Hold 5s)
				157~158	Display Backlight ON (Hold 3s)
				159~160	Display Backlight OFF (Hold 5s)
				161~162	Pan/Tilt Speed 1 (Default) (Hold 5s)
				163~164	Pan/Tilt Speed 2 (Hold 5s)
				165~166	Invert Pan ON (Hold 3s)
				167~168	Invert Pan OFF (Hold 5s)
				169~170	Invert Tilt ON (Hold 3s)
				171~172	Invert Tilt OFF (Hold 5s)
				173~173	900 Hz LED Refresh Rate (Hold 1s)
				174~174	910 Hz LED Refresh Rate (Hold 1s)
				175~175	920 Hz LED Refresh Rate (Hold 1s)
				176~176	930 Hz LED Refresh Rate (Hold 1s)
				177~177	940 Hz LED Refresh Rate (Hold 1s)
				178~178	950 Hz LED Refresh Rate (Hold 1s)
				179~179	960 Hz LED Refresh Rate (Hold 1s)
				180~180	970 Hz LED Refresh Rate (Hold 1s)
				181~181	980 Hz LED Refresh Rate (Hold 1s)
				182~182	990 Hz LED Refresh Rate (Hold 1s)
				183~183	1000 Hz LED Refresh Rate (Hold 1s)

24 29 36

Special  
Function

184~184	1010 Hz LED Refresh Rate (Hold 1s)
185~185	1020 Hz LED Refresh Rate (Hold 1s)
186~186	1030 Hz LED Refresh Rate (Hold 1s)
187~187	1040 Hz LED Refresh Rate (Hold 1s)
188~188	1050 Hz LED Refresh Rate (Hold 1s)
189~189	1060 Hz LED Refresh Rate (Hold 1s)
190~190	1070 Hz LED Refresh Rate (Hold 1s)
191~191	1080 Hz LED Refresh Rate (Hold 1s)
192~192	1090 Hz LED Refresh Rate (Hold 1s)
193~193	1100 Hz LED Refresh Rate (Hold 1s)
194~194	1110 Hz LED Refresh Rate (Hold 1s)
195~195	1120 Hz LED Refresh Rate (Hold 1s)
196~196	1130 Hz LED Refresh Rate (Hold 1s)
197~197	1140 Hz LED Refresh Rate (Hold 1s)
198~198	1150 Hz LED Refresh Rate (Hold 1s)
199~199	1160 Hz LED Refresh Rate (Hold 1s)
200~200	1170 Hz LED Refresh Rate (Hold 1s)
201~201	1180 Hz LED Refresh Rate (Hold 1s)
202~202	1190 Hz LED Refresh Rate (Hold 1s)
203~203	1210 Hz LED Refresh Rate (Hold 1s)
204~204	1220 Hz LED Refresh Rate (Hold 1s)
205~205	1230 Hz LED Refresh Rate (Hold 1s)
206~206	1240 Hz LED Refresh Rate (Hold 1s)
207~207	1250 Hz LED Refresh Rate (Hold 1s)
208~208	1260 Hz LED Refresh Rate (Hold 1s)
209~209	1270 Hz LED Refresh Rate (Hold 1s)
210~210	1280 Hz LED Refresh Rate (Hold 1s)
211~211	1290 Hz LED Refresh Rate (Hold 1s)
212~212	1300 Hz LED Refresh Rate (Hold 1s)
213~213	1310 Hz LED Refresh Rate (Hold 1s)
214~214	1320 Hz LED Refresh Rate (Hold 1s)
215~215	1330 Hz LED Refresh Rate (Hold 1s)
216~216	1340 Hz LED Refresh Rate (Hold 1s)
217~217	1350 Hz LED Refresh Rate (Hold 1s)
218~218	1360 Hz LED Refresh Rate (Hold 1s)
219~219	1370 Hz LED Refresh Rate (Hold 1s)
220~220	1380 Hz LED Refresh Rate (Hold 1s)
221~221	1390 Hz LED Refresh Rate (Hold 1s)
222~222	1400 Hz LED Refresh Rate (Hold 1s)
223~223	1410 Hz LED Refresh Rate (Hold 1s)
224~224	1420 Hz LED Refresh Rate (Hold 1s)
225~225	1430 Hz LED Refresh Rate (Hold 1s)
226~226	1440 Hz LED Refresh Rate (Hold 1s)

227~227	1450 Hz LED Refresh Rate (Hold 1s)
228~228	1460 Hz LED Refresh Rate (Hold 1s)
229~229	1470 Hz LED Refresh Rate (Hold 1s)
230~230	1480 Hz LED Refresh Rate (Hold 1s)
231~231	1490 Hz LED Refresh Rate (Hold 1s)
232~232	1500 Hz LED Refresh Rate (Hold 1s)
233~233	2500 Hz LED Refresh Rate (Hold 1s)
234~234	4000 Hz LED Refresh Rate (Hold 1s)
235~235	5000 Hz LED Refresh Rate (Hold 1s)
236~236	6000 Hz LED Refresh Rate (Hold 1s)
237~237	10,000 Hz LED Refresh Rate (Hold 1s)
238~238	15,000 Hz LED Refresh Rate (Hold 1s)
239~239	20,000 Hz LED Refresh Rate (Hold 1s)
240~240	25,000 Hz LED Refresh Rate (Hold 1s)
241~241	Internal program 1 (scenes 1~8) (Hold 3s)
242~242	Internal program 2 (scenes 9~16) (Hold 3s)
243~243	Internal program 3 (scenes 17~24) (Hold 3s)
244~244	Internal program 4 (scenes 25~32) (Hold 3s)
245~245	Internal program 5 (scenes 33~40) (Hold 3s)
246~246	Internal program 6 (scenes 41~48) (Hold 3s)
247~247	Internal program 7 (scenes 49~56) (Hold 3s)
248~255	No function

WCT Preset Chart:


Value	Color Temperature	Value	Color Temperature	Value	Color Temperature
24	2700	38	4100	52	5500
25	2800	39	4200	53	5600
26	2900	40	4300	54	5700
27	3000	41	4400	55	5800
28	3100	42	4500	56	5900
29	3200	43	4600	57	6000
30	3300	44	4700	58	6100
31	3400	45	4800	59	6200
32	3500	46	4900	60	6300
33	3600	47	5000	61	6400
34	3700	48	5100	62	6500
35	3800	49	5200	63	6600
36	3900	50	5300		
37	4000	51	5400		

The diagram illustrates the electrical connections for a complex lighting system. Key components and their connections include:

- Power Supply:** An AC-100-240V input is connected to a 800W PSU. The PSU provides 48V+, 48V-, GND, and 5V+ to various PCBs.
- Adapter PCBs:**
  - Y72701-06:** Connects the PSU's 5V+ to the Y motor drive PCB and provides 28V to the LED drive PCB.
  - Y72701-07:** Connected to the Y motor drive PCB, it interfaces with a vertical magnetic encoding PCB and a vertical sensor.
  - Y72701-04:** An X motor drive PCB connected to a horizontal magnetic encoding PCB and a horizontal sensor.
- Motor Drivers and Motors:**
  - Focus motor driver PCB (S72206-01):** Controls a zoom motor and a focus motor, with associated zoom and focus sensors.
  - Gobo driver PCB (Y72701-05):** Controls animation, gobo, and color wheel motors, with associated sensors and a fan.
  - CMY motor driver (S72206-01):** Controls C, M, and Y motors, with associated sensors.
- LED and Fan Components:**
  - LED drive PCB (Y72701-03):** Receives 28V from the adapter and drives the LED array.
  - IP fans:** Two IP fans are connected to the LED drive PCB.
  - Fan:** A fan is connected to the Gobo driver PCB.
- Other Components:**
  - Display PCB (Y72301-02):** Includes a battery, waterproof antenna, power thermal sensor, and temperature/humidity sensor.
  - Prism motor driver PCB (S70713-04):** Controls various prism and linear motors.



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

