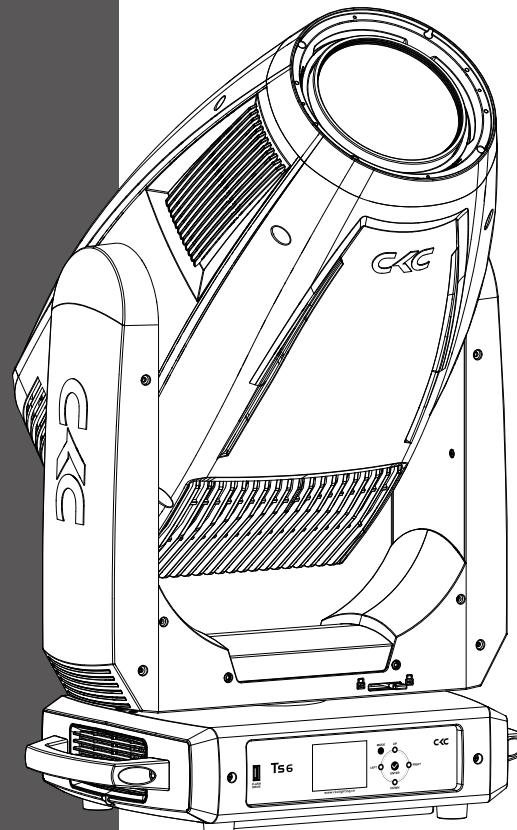


CKC

Ts 6



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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 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 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 72 °C , please do not touch it with bare hands.

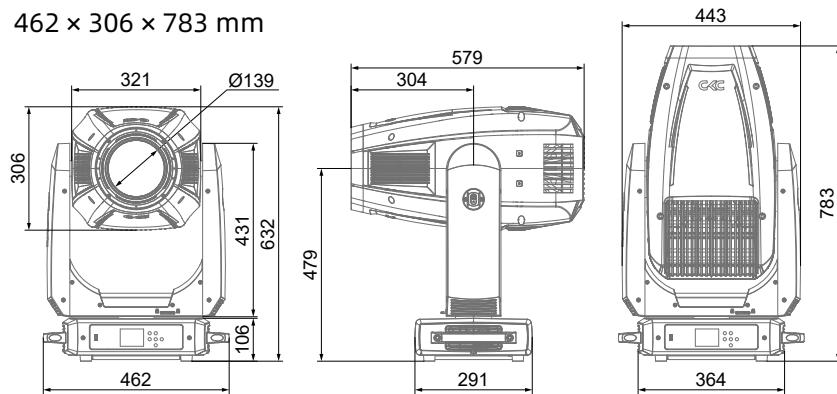


- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp and combustible materials is 0.5m.

2. Product Introduction

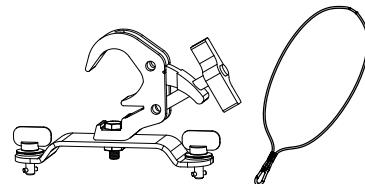
2.1 Exterior dimensions of lighting fixtures

462 × 306 × 783 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: 730 W
 Power factor: 0.999F
 Input Current: 3.25A 220V

● Source lifespan

>20000 hours

● Optical system

Beam angel: 7 ~ 50°
 Source: 500W RGBAL LED
 Output luminous flux: 16400 Lm

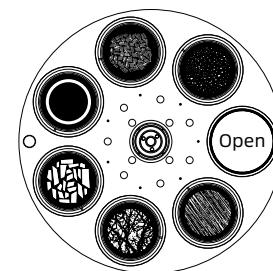
● Color system

CCT: 2400~8500K
 Ra: >95
 R9: >95
 TLCI: >92

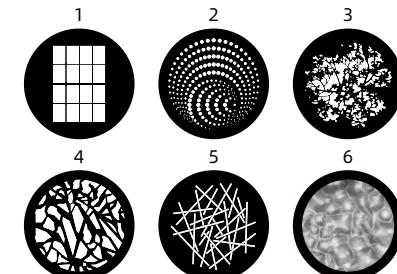
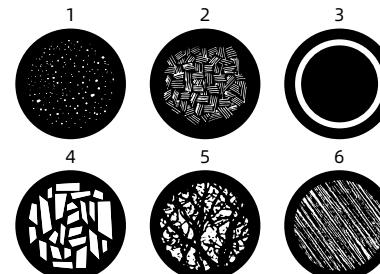
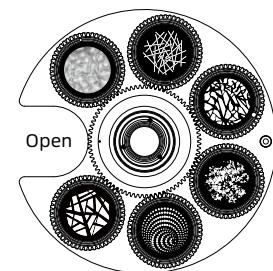
● Gobo system

Gobo outer diameter: 30 ⁺⁰_{-0.2} mm
 Internal diameter: 25mm
 Thickness: 1.1mm

Rotation gobo wheel 1



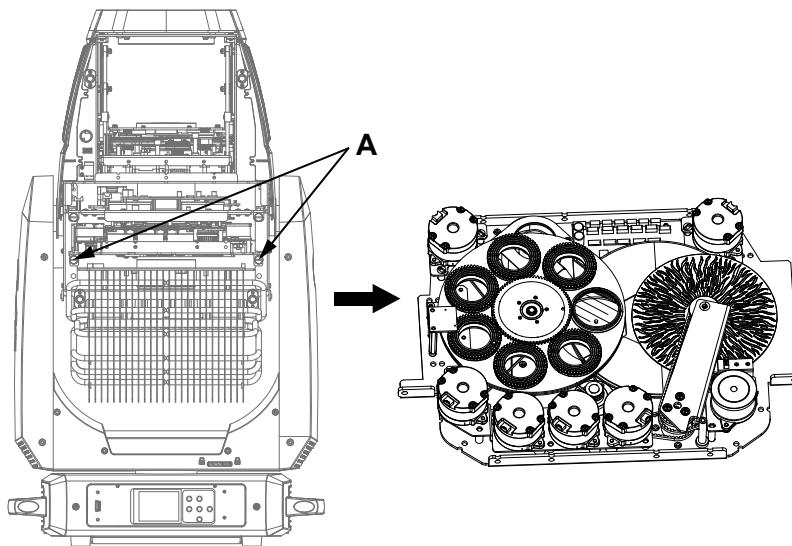
Rotation gobo wheel 2



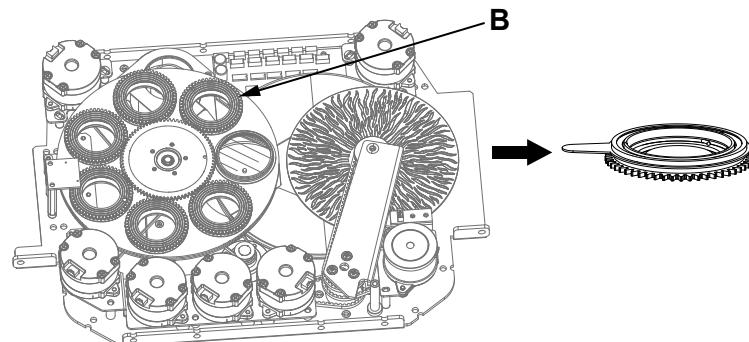
Gobo replace

1) Gobo wheel 1

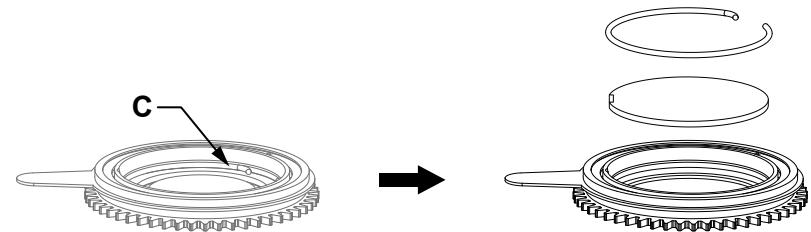
a). Remove the two screws at location **A**, unplug the power and signal adaptercables, and extract the Gobo component;



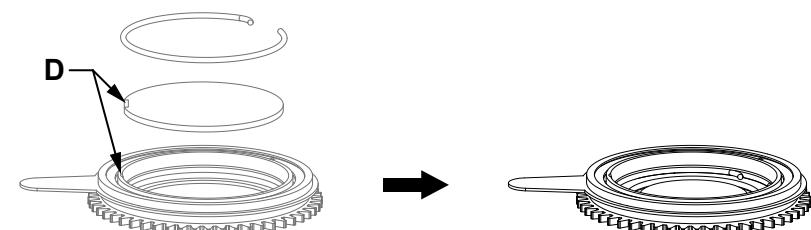
b). As shown in **B**, gently lift the driven wheel from the edge upwards from the front of the pattern plate and slowly pull it out to remove a single pattern seat;



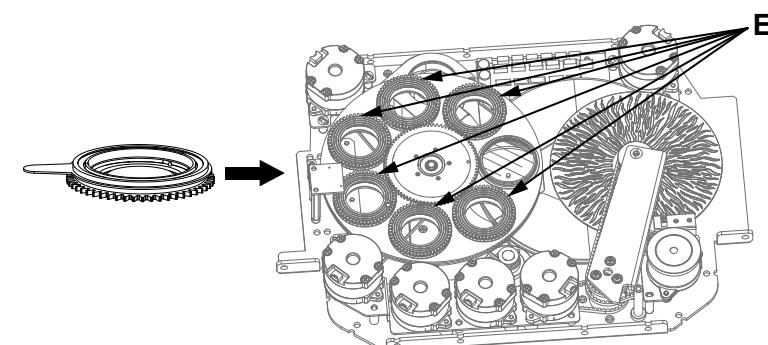
c). Use tweezers or other small grippers to remove the snap spring at point **C** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



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);

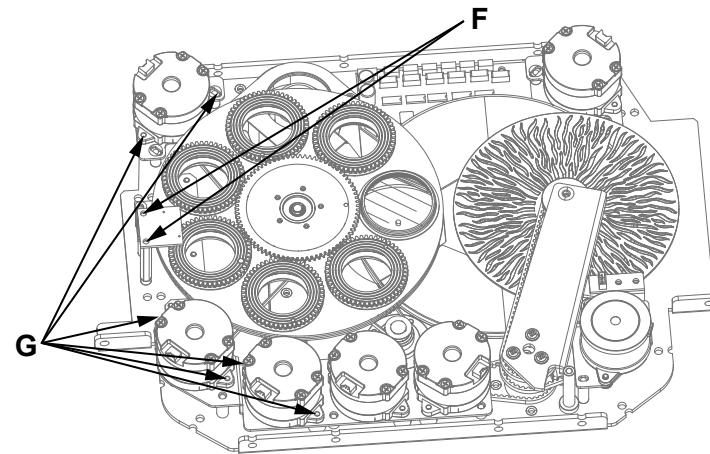


e). Insert the gobo holder into the drive wheel assembly, as shown in **E**, and reinstall the gobo holder in the order it was removed; The positioning point of the gobo holder should be aligned with the positioning point of the driving wheel; After installation, simply reinstall the gobo wheel component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

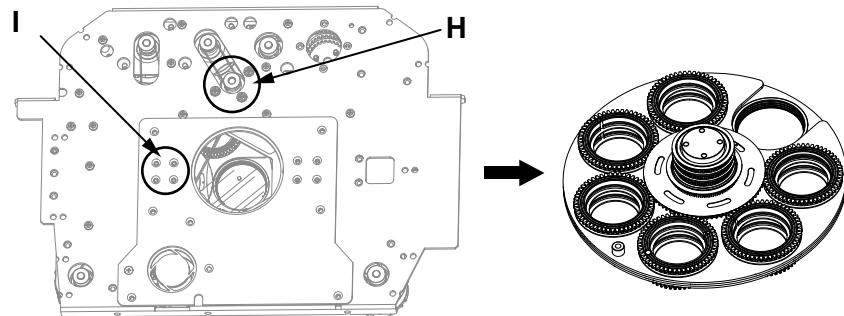


2) Gobo wheel 2

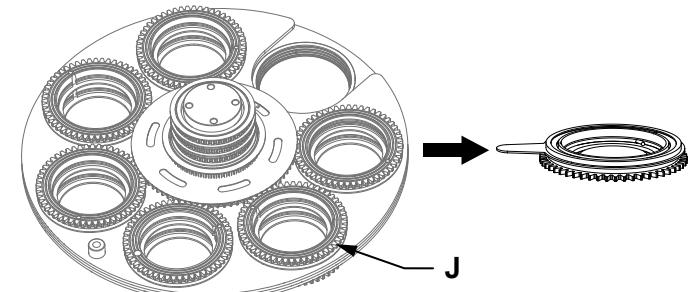
a). Unscrew the two screws on the front **F** of the gobo wheel component and remove the magnetic sensing plate; Loosen the 6 screws at point **G** and loosen the Gobo self rotating belt (to facilitate the next step of removing the Gobo wheel component);



b). Reverse the components and loosen the 3 screws at **H** to loosen the belt; Unscrew the 4 screws at position **I** again to remove the gobo wheel component of the pattern disk;

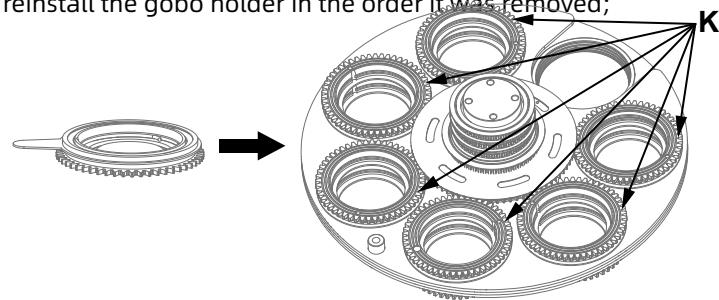


c). As shown in **J**, gently lift the gobo holder from the edge of the gobo wheel 2 and slowly pull it out to remove a single gobo holder;



d). Please refer to page 6 for the replacement method of Gobo;

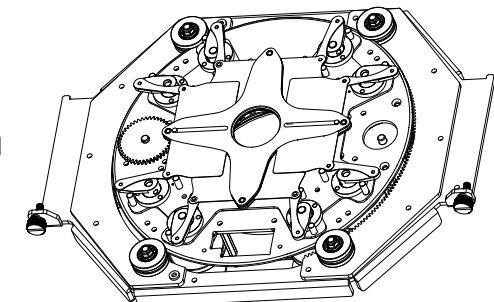
e). Insert the gobo wheel into the drive wheel assembly, as shown in **K**, and reinstall the gobo holder in the order it was removed;



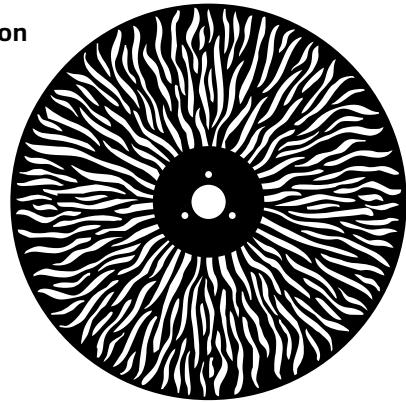
g). After installation, simply reinstall the gobo wheel component onto the light fixture.

● 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 $\pm 60^\circ$

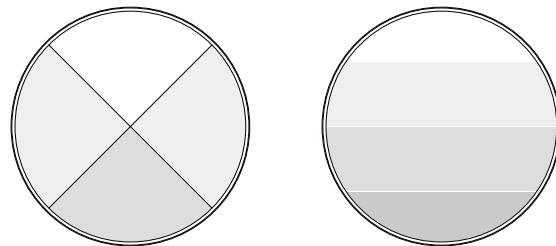


● Animation



● Prism system

4 prism+ 4 linear



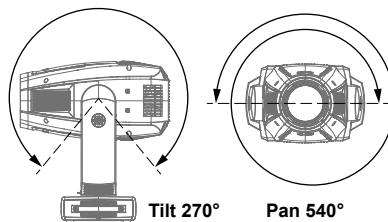
● Pan/Tilt

Pan scan:

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

Tilt scan:

270° 8-bit/16bit precision scanning



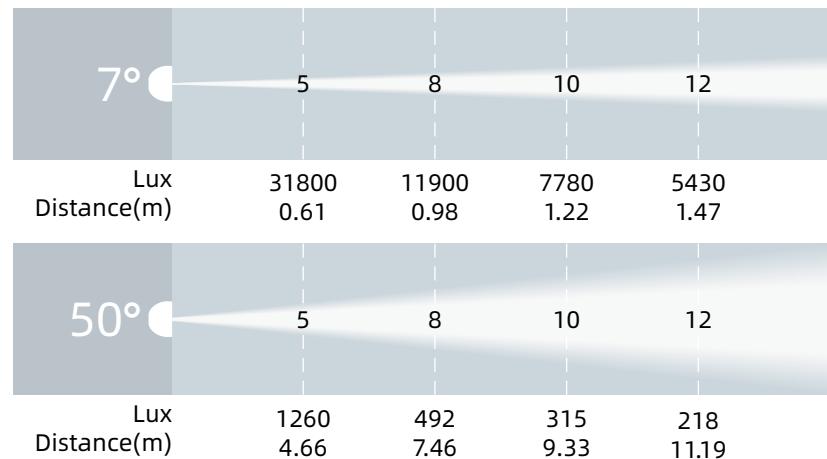
● Control and programming

Control channel: 41CH/57CH/RGB 39CH/RGB 53CH/CMY 39CH/CMY 53CH

Protocol: DMX512, RDM, ArtNet/sACN

Data connect: 3 or 5 pin signal in/out, RJ45 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: 36.6 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

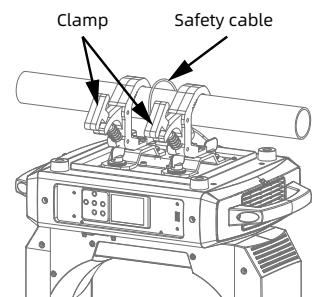
1). Disconnect the power supply before packaging the lighting fixtures to allow them to cool completely;

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.

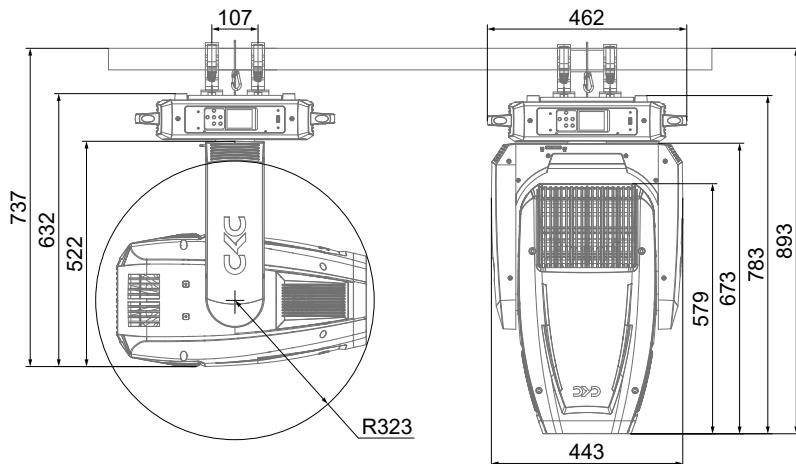
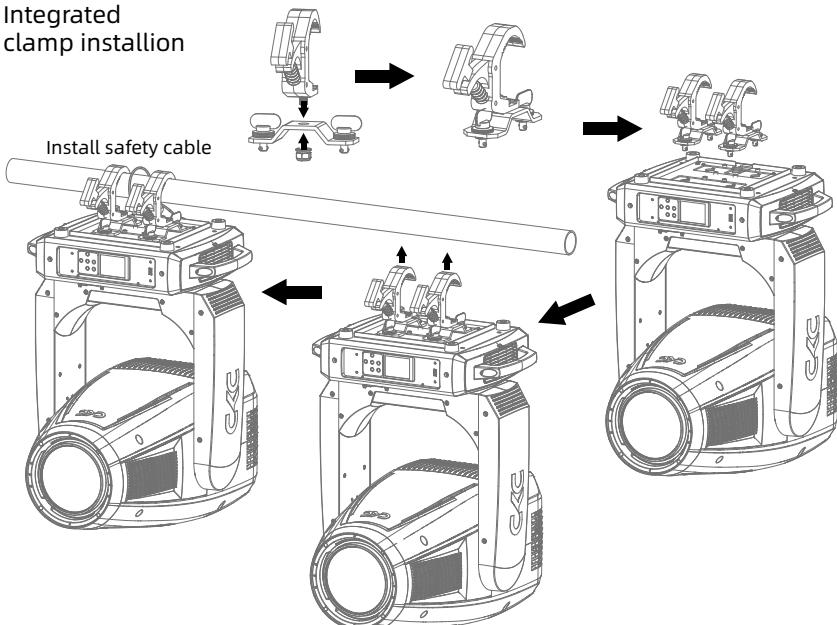




Warning !

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.

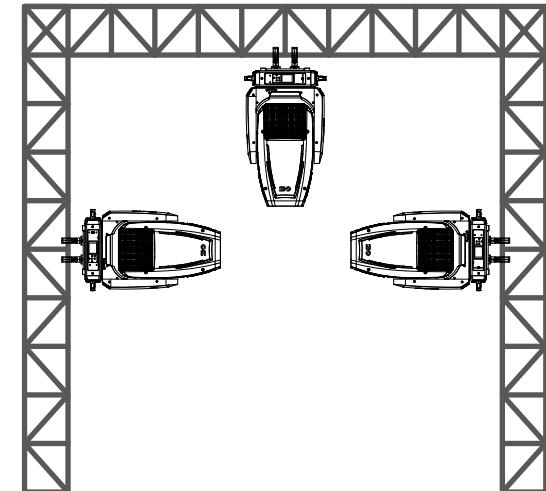
Integrated clamp installation



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).

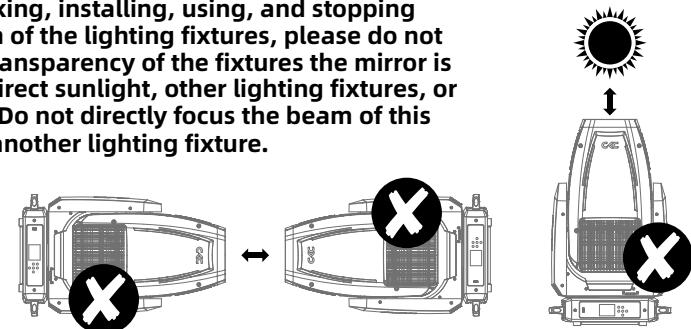
5.3 Hanging Installation Diagram



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.

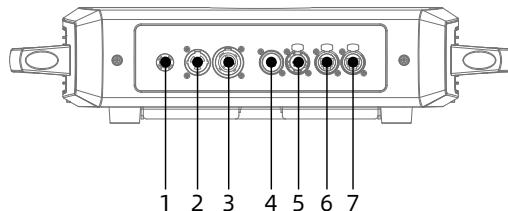
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams,Do not directly focus the beam of this device onto another lighting fixture.



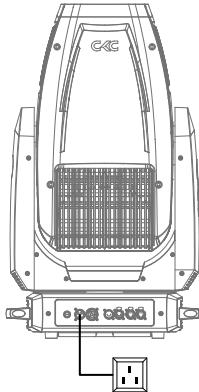
6. Power、Signal connect

6.1 Power and signal socket

1. Fuse holder
2. Power input
3. Power output
4. DMX input
5. DMX output
6. RJ45 input
7. RJ45 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.



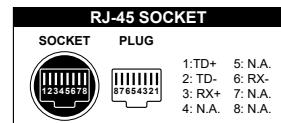
Attention: When connecting the power supply, the ground wire (yellow/green dual color wire) must be safely grounded and comply with all relevant electrical installation standards.

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.

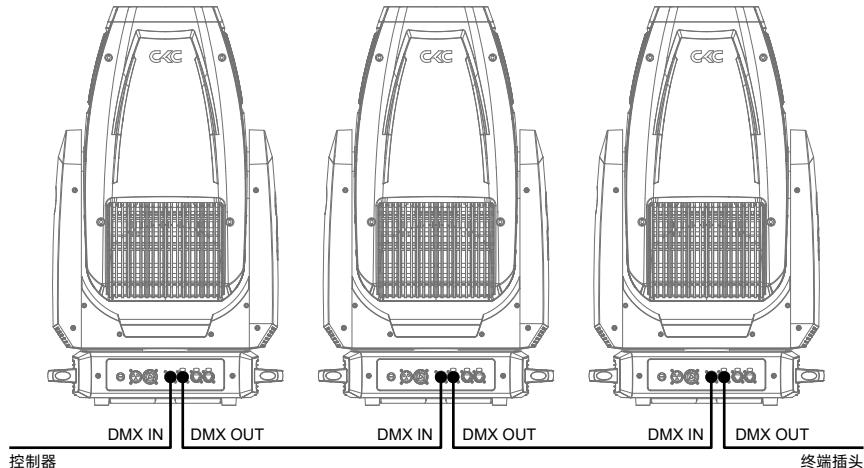
Warning !

- 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.

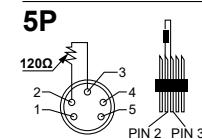
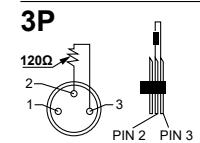
6.3 Signal connect



The lighting fixtures are equipped with standard DMX XLR and RJ-45 input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.

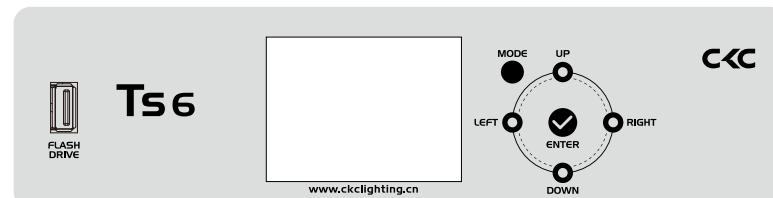


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 or 5 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 TS6 Ethernet Reset Temperature Check LED Temp:xxxC Base Temp: xxxC Motor Reset... Please Wait...		
SET	Dmx Presets	A001~AXXX
	User Mode	41Ch Standard 57CH Extended 39CH RGB 53CH RGB EX 39CH CMY 53CH CMY Ex
	Network	Net Protocol ArtNET/sACN
	Status	No DMX Mode P.Reverse T.Reverse Pan Degree Feedback Move.Speed Hibernation Follow Spot Performance Reset Mode Fast Reset/Traditional
	Fixture ID	Service PIN Universe IP Address Mask Address 000~255 2.XXX.XXX.XXX 255.XXX.XXX.XXX

Function	Net Switch	ON/OFF
	KlingNet SW	ON/OFF
	Dim Mode	Standard Stage TV Architectural Theatre
	Dim to Warm	ON/OFF
	Temp. C/F	Celsius Fahrenheit
	Dim Curve	Linear Square Inv-Square S-Curve
	Frequency	1200Hz/3600Hz/5000Hz/10KHz/15KHz/20KHz/25KHz
	LED Output	Full/5600K
	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
Test	DFSE	OFF/ON
	USB Update	OFF/ON
	Scan Record	-Service PIN-(password:050) Record Status No Record/Pan Record/Tilt Record/ All Record
	Reset.M	All Pan&Tilt Other
Time	Test.Chan	PAN
	Panel.Ctrl.	PAN =XXX :
	Calibrate	-Password- PAN :
Time	Time.Info	Current(Hours) Total Time(Hours) Last Time(Hours) Timer PIN>Password=50) Clear Last(ON/OFF)

Info	Temp. Info	Base Temp. Head Temp.
	Error. Info	Pan,Tilt.....
	Model. Info	TS6
	Software.V	1U V 1.X.X 2U V 1.X.X 3U V 1.X.X 4U V 1.X.X 5U V 1.X.X 6U V 1.X.X 7U V 1.X.X

8. DMX channel table:

41CH	57CH	39CH RGB	53CH RGB EX	39CH CMY	53CH CMY EX	Value Range	Function
1	1	1	1	1	1	0-255	Pan Left → Right
2	2	2	2	2	2	0-255	Pan Fine Fine Position
3	3	3	3	3	3	0-255	Tilt Forward → Backward
4	4	4	4	4	4	0-255	Tilt Fine Fine Position
5	5	5	5			0-255	Red 0 → 100%
6		6				0-255	Red Fine Fine Adjustment
6	7	6	7			0-255	Green 0 → 100%
8		8				0-255	Green Fine Fine Adjustment
7	9	7	9			0-255	Blue 0 → 100%
10		10				0-255	Blue Fine Fine Adjustment
8	11					0-255	Lime 0 → 100%
12						0-255	Lime Fine Fine Adjustment
9	13					0-255	Amber 0 → 100%
14						0-255	Amber Fine Fine Adjustment
				5	5	0-255	Cyan 0 → 100%

					6	0-255	Cyan Fine Fine Adjustment
					6	0-255	Magenta 0 → 100%
					8	0-255	Magenta Fine Fine Adjustment
					7	0-255	Yellow 0 → 100%
					10	0-255	Yellow Fine Fine Adjustment
							Variable CCT
10	15	8	11	8	11	0-26	Open
						27-85	2400K → 8500K (See Sheet)
						86-255	8500K
							Color
						0	Open
						1-60	Virtual Swatch Book (See Sheet)
						61-179	Open
							Scroll
						180-201	Clockwise Fast → Slow
						202-207	Stop
						208-229	Counter-clockwise Slow → Fast
						230-234	Open
							Random Slots
						235-239	Fast
						240-244	Medium
						245-249	Slow
						250-255	Open
							Green Shift
						0	Idle
						1-127	Full Minus Green to Neutral
						128	Neutral White
						129-255	Neutral to Full Plus Green
							CCT Crossfade
						0	CCT
						1-254	Blend CCT → Color Mix
						255	Color Mix
							Rotating Gobo Wheel 1
						0-9	Open
						10-19	Rotating Gobo 1
						20-29	Rotating Gobo 2
						30-39	Rotating Gobo 3
						40-49	Rotating Gobo 4
						50-59	Rotating Gobo 5
						60-69	Rotating Gobo 6
						70-89	Gobo 1 Shake Slow → Fast

							90-109	Gobo 2 Shake Slow → Fast
							110-129	Gobo 3 Shake Slow → Fast
							130-149	Gobo 4 Shake Slow → Fast
							150-169	Gobo 5 Shake Slow → Fast
							170-189	Gobo 6 Shake Slow → Fast
								Scroll
							190-221	Clockwise Fast → Slow
							222-223	Stop
							224-255	Counter-clockwise Slow → Fast
								Rotating Gobo Index/Rotation
							0-127	Index Position
								Rotate
							128-189	Clockwise Fast → Slow
							190-193	Stop
							194-255	Counter-clockwise Slow → Fast
								Rotating Gobo Index/Rotation Fine
								Fine Adjustment
								Rotating Gobo Wheel 2
							0-9	Open
							10-19	Rotating Gobo 1
							20-29	Rotating Gobo 2
							30-39	Rotating Gobo 3
							40-49	Rotating Gobo 4
							50-59	Rotating Gobo 5
							60-69	Rotating Gobo 6
							70-89	Gobo 1 Shake Slow → Fast
							90-109	Gobo 2 Shake Slow → Fast
							110-129	Gobo 3 Shake Slow → Fast
							130-149	Gobo 4 Shake Slow → Fast
							150-169	Gobo 5 Shake Slow → Fast
							170-189	Gobo 6 Shake Slow → Fast
								Scroll
							190-221	Clockwise Fast → Slow
							222-223	Stop
							224-255	Counter-clockwise Slow → Fast
								Rotating Gobo Wheel 2 Index / Rotation
							0-127	Index Position
								Rotate
							128-189	Clockwise Fast → Slow
							190-193	Stop
							194-255	Counter-clockwise Slow → Fast
								Rotating Gobo Wheel 2 Index/Rotation Fine
								Fine Adjustment

								Prism
								0-5 Open
								6-130 Prism 1
								131-255 Prism 2
								Prism Index/Rotation
								0-127 Index Position
								Rotate
								128-189 Clockwise Fast → Slow
								190-193 Stop
								194-255 Counter-clockwise Slow → Fast
								Focus
								Infinity → Near
								Focus Fine
								Fine Adjustment
								Zoom
								Narrow → Wide
								Zoom Fine
								Fine Adjustment
								Strobe
								0-31 Closed
								32-63 Open
								64-95 Strobe effect slow to fast
								96-127 Open
								128-159 Pulse Effect
								160-191 Open
								192-223 Random Slow → Fast
								224-255 Open
								Dimmer
								0 → 100%
								Dimmer Fine
								Fine Adjustment
								Dim Modes
								0-20 Standard
								21-40 Stage
								41-60 TV
								61-80 Architectural
								81-100 Theatre
								101-255 Default to Unit Setting
								Iris
								0-191 Open - Close
								192-207 Pulse up, slow → fast
								208-223 Pulse down, slow → fast
								224-239 Random effect, slow → fast
								240-255 Fast Up-Fast Down slow → fast

29	36	27	32	27	32	0 - 255	Frost (Light)
							Open → Closed
30	37	28	33	28	33	0 - 255	Frost (Wash)
							Open → Closed
							Animation Wheel
						0-5	Wheel Rot. Off
						6-128	Wheel Position 0 ... 540°
						129-191	Wheel rot. Fast -> Slow, CW
						192-192	Wheel rot. Stop
						193-255	Wheel rot. Slow -> Fast, CCW
32	39	30	35	30	35	0-255	Blade 1 A
							Open → Closed
	40		36		36	0-255	Blade 1 A Fine
							Fine Adjustment
33	41	31	37	31	37	0-255	Blade 1 B
							Open → Closed
	42		38		38	0-255	Blade 1 B Fine
							Fine Adjustment
34	43	32	39	32	39	0-255	Blade 2 A
							Open → Closed
	44		40		40	0-255	Blade 2 A Fine
							Fine Adjustment
35	45	33	41	33	41	0-255	Blade 2 B
							Open → Closed
	46		42		42	0-255	Blade 2 B Fine
							Fine Adjustment
36	47	34	43	34	43	0-255	Blade 3 A
							Open → Closed
	48		44		44	0-255	Blade 3 A Fine
							Fine Adjustment
37	49	35	45	35	45	0-255	Blade 3 B
							Open → Closed
	50		46		46	0-255	Blade 3 B Fine
							Fine Adjustment
38	51	36	47	36	47	0-255	Blade 4 A
							Open → Closed
	52		48		48	0-255	Blade 4 A Fine
							Fine Adjustment
39	53	37	49	37	49	0-255	Blade 4 B
							Open → Closed
	54		50		50	0-255	Blade 4 B Fine
							Fine Adjustment
							Framing Rotation
						0-126	Min (-60°)
						127-128	Parallel (0°)
						129-255	Max (+60°)

							Pan / Tilt Speed
						0-225	Max to min speed
						226-235	Blackout by movement
						236-245	Blackout by wheel changes
						246-255	No function
							Control
						0-19	Wheel Snap
						20-39	Wheel Fade
							Performance Mode
						40-44	Ultra Quiet
						45-49	Best Speed
						50-79	Idle
							Reset
						80-84	All
						85-87	Pan / Tilt
						88-90	Gobo
						91-93	Focus and Zoom
						94-96	Others
						97-99	Idle
							Refresh Rate (Hz)
						100-104	1200Hz
						105-109	3600Hz
						110-114	5000Hz
						115-119	10000Hz
						120-124	15000Hz
						125-129	20000Hz
						130-134	25000Hz
						135-139	DTW ON
						140-144	DTW OFF
						145-149	LED Output Full
						150-154	LED Output 5600K
						155-200	Idle
							Dimmer Curves
						201-210	Linear
						211-220	Square
						221-230	Inverse Square
						231-240	S-Curve (Default)
						241-255	Idle

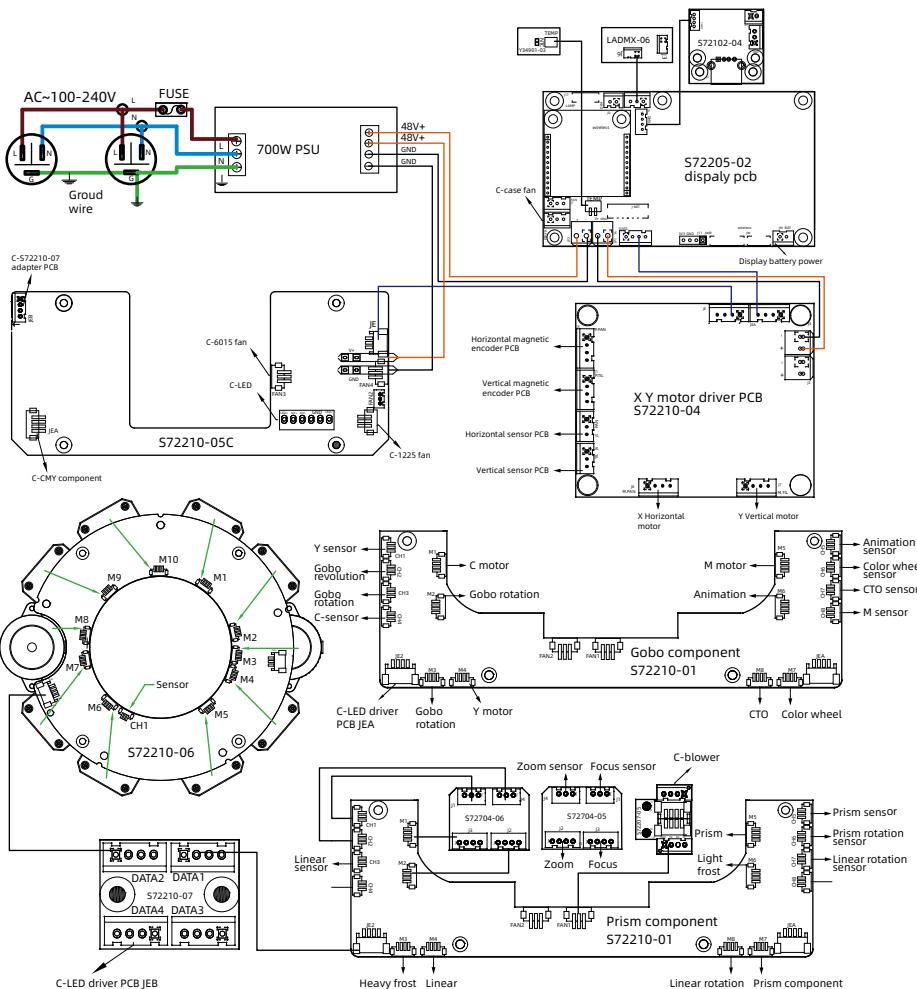
Virtual Swatch Book

Value	Filter Number	Name
1	7	pale yellow
2	103	straw
3	151	gold tint
4	100	spring yellow
5	10	medium yellow
6	101	yellow
7	104	deep amber
8	15	deep straw
9	179	loving amber
10	21	gold amber
11	105	orange
12	158	deep orange
13	22	dark amber
14	778	millenium gold
15	135	deep golden amber
16	24	scarlet
17	106	primary red
18	26	bright red
19	27	medium red
20	19	fire
21	157	pink
22	36	medium pink
23	111	dark pink
24	128	bright pink
25	148	bright rose
26	332	special rose pink
27	793	vanity fair
28	113	magenta
29	46	dark magenta
30	48	rose purple

Variable CCT

Value	Color Temperature
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500

9. Control circuit diagram



10. Regular maintenance

10.1 Cleaning and maintenance

Lighting fixtures require daily cleaning and maintenance, and their service life largely depends on the operating environment and standards. If you have any questions, please consult our technical engineers for advice. Maintenance and repair work not included in this book should be entrusted to our qualified technical engineers.



Attention! Damage caused by dust, e-liquid, or other reasons, as well as abnormal use, is not covered by the warranty.

Warning !

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		