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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 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.



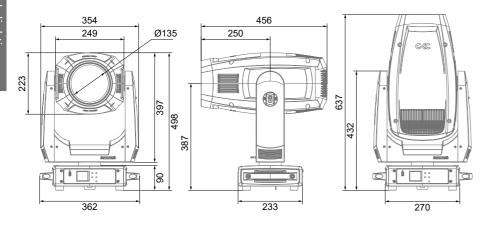
- The lighting fixtures work normally at -20 °C to 45 °C. When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 68 °C , please do not touch it with bare hands.



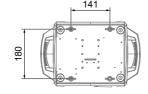
- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked:
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp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

2. Product Introduction

2.1 Exterior dimensions of lighting fixtures



362 × 233 × 637 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: GB7000.1-2015, GB7000.217-2008, Q/YF 1-2017

• Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz

Rated power of the entire fixture: 660W

Power factor: 0.997F Input Current: 2.586A 220V

Source lifespan ≥ 20000 hours

Optical system

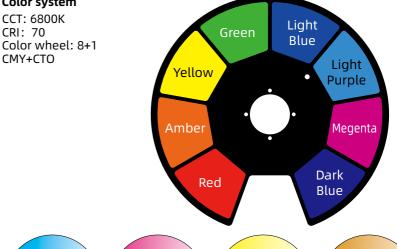
LED source: 350W CW LED Beam angel: 3 ~ 53°

Output luminous flux: 15000 Lm

Color system

CCT: 6800K CRI: 70

Color wheel: 8+1



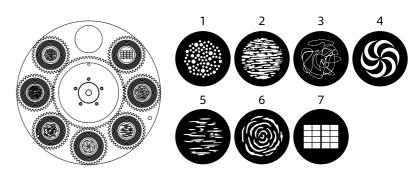


Rotation gobo: 7+1

MAGENTA

Gobo outer diameter: 16.5 ±0.2 mm Internal diameter: 11.5 mm

Thickness: 1.1mm

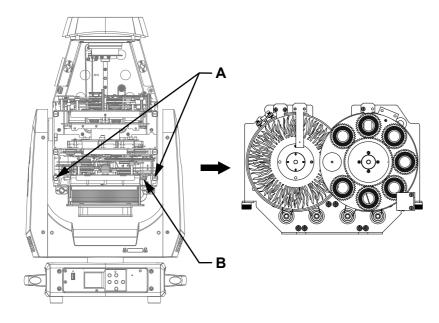


YELLOW

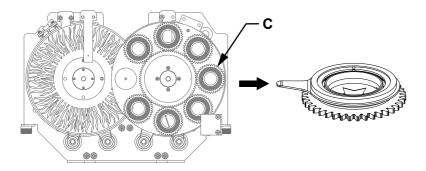
сто

Gobo replace

1.Unscrew the two screws at location **A**, unplug the power cord at location **B**, and take out the Gobo component;

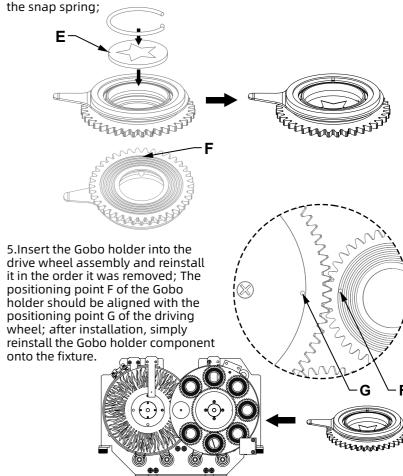


2.As shown in ${\bf C}$, gently lift the driven wheel from the edge upwards from the front of the pattern plate and slowly pull it out to remove a single pattern seat;



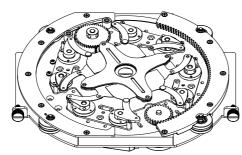
3.Use tweezers or other small grippers to remove the snap spring at point **D** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);

4. When assembling the Gobo, avoid touching it directly with your hands. Align the location of the Gobo's positioning point (**E**) with the positioning point **F** on the back of the driven wheel component (the coating surface of the Gobo should face the light source), and install the span spring:

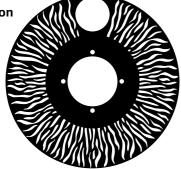


• Framing system

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 ±50°

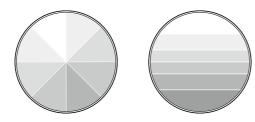






Prism system

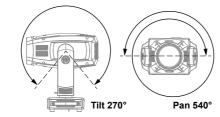
8 prism+ 6 linear



● Pan/Tilt

Pan scan:

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

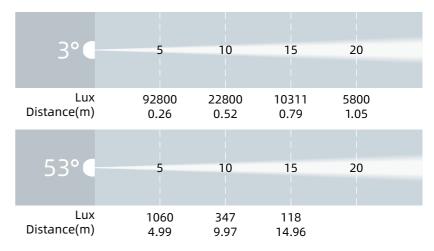


• Control and programming

Control channel: 38CH/52CH Protocol: DMX512, RDM

Data connect: 3 pin signal in/out, 5 pin signal in/out

Illumination draw



Other effect function

Fast electronic strobe: 1~25Hz Frost: Light frost+heavy frost

LED refresh frequency: 1200Hz-25KHz Iris

Other features and functions

Weight: 38.4 KG

Carton size: 88 × 57.5 × 48.5 cm N.W: 46.2 KG Flight case size: 70.8 × 61.5 × 87.5 cm N.W: 97 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.

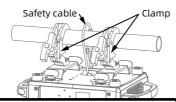
4.2 Equipment packaging

- 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

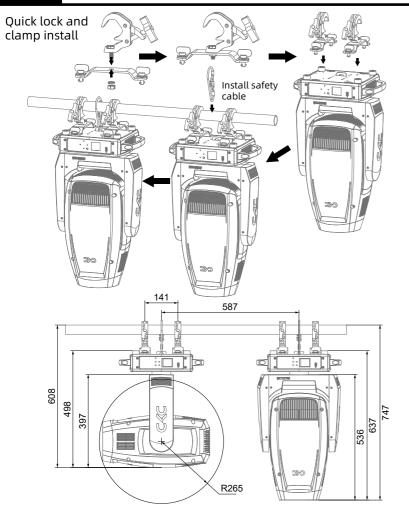
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.





Waining!

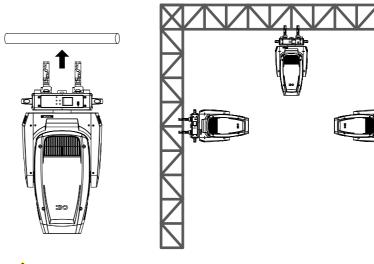
The lighting fixtures are divided into two versions: integrated light hook and normal. When using the integrated light hook version, the clamp is broken up and locked onto the truss. The normal version must use 2 clamps to secure the device and fasten it with a 1/4 rotation. Regardless of the version,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



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

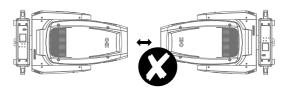




Reminder: External beam source may damage internal lighting fixtures

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.

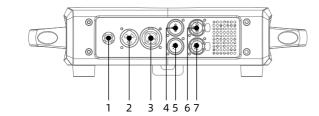
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams, Do not directly focus the beam of this device onto another lighting fixture.



6. Power, Signal connect

6.1 Power and signal socket

- 1.Fuse holder
- 2.Power input
- 3.Power output
- 4.3 Pin DMX input
- 5.5 Pin DMX input
- 6.3 Pin DMX output
- 7.5 Pin 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.

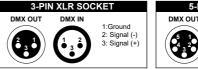


This product uses Powercon In/Out to connect power cable. Due to power limitations, a 2mm power cable can drive up to 4 fixtures at 220V and up to 1 fixture at 110V

Waining!

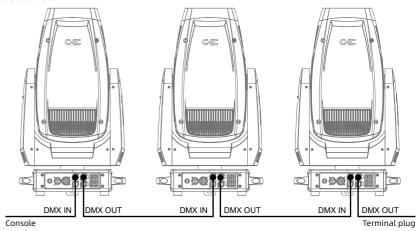
- Do not connect too many fixtures or overload a single
- Do not use power cords with damaged insulation layers, and do not place power cords on other wires:
- When the fixture is not in use or cleaned, please unplug the power cord; Do not forcefully unplug or drag the power cord directly.

6.3 Signal connect

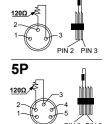




The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over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



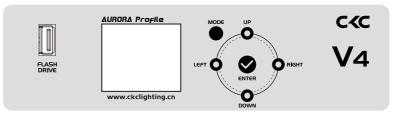
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on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



3P

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... lcĸc V4 Temperature Check LED Temp xxxC Base Temp xxxC Motor Reset Please Wait...

Receive	Set Address	A001-XXX	
User Mode	User Mode	Standard Extend User A User B User C	
	Edit A Edit B Edit C	Max Channel PAN :	
	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
	Dim Mode	Standard Stage TV Architectur Theatre	

	Temp. C/F	Celsius Fahrenheit			
	Dim Curve	Linear/Square /I-Square/S-Curve 900Hz/1000Hz/1100Hz/1200Hz/1300Hz/1400Hz/ 1500Hz/2500Hz/4000Hz/5000Hz/10KHz/15KHz/ 20KHz/25KHz			
Function	Frequency				
	Fan.Set	Head Fan	Auto Silent High		
	LCD.Set	Backlight Flip Display Key Lock DispFlash	02~60m <05m> ON/OFF ON/OFF ON/OFF		
	Disp.Set	Chan.Value Slave Set Auto.Prog	PAN Slave1,Slave2 Master / Alone		
	DFSE	ON/OFF			
	USB Update	OFF/ON			
	Time.Info	Current Time(Hours) Total Time(Hours) Last Time(Hours) Timer PIN(Password=050) Clear Last (ON/OFF)			
	Temp. Info	Head: xxxF/C Base: xxxF/C			
Info	Fan Speed	LED :xxxxRPM Gobo :xxxxRPM Head :xxxxRPM Base xxxxRPM			
	Error. Info	Pan,Tilt			
	Model. Info	V4			
	Software.V	1U:V1.x.x 2U:V1.x.x 3U:V1.x.x 4U:V1.x.x 5U:V1.x.x 6U:V1.x.x 7U:V1.x.x			
	Reset.Motor	A11/Pan&Tilt/Head			
	Test.Channel	PAN			
Test	Panel.Ctrl.	PAN =XXX :			
	Calibrate	-Password-(050) PAN、Tilt			

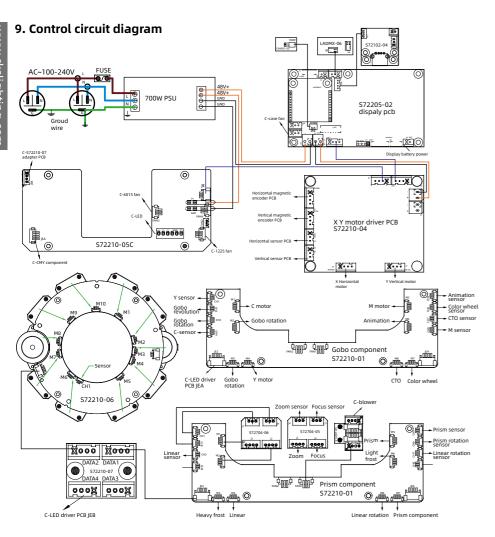
8. DMX channel table:

38CH	52CH	Function	Values		
1	1	Pan	000 - 255 0% to 100%		
2	2	Pan fine	000 - 255 0% to 100%		
3	3	Tilt	000 - 255 0% to 100%		
4	4	Tilt fine	000 - 255 0% to 100%		
5	5	Dimmer	000 - 255 0% to 100%		
6	6	Dimmer fine	000 - 255 0% to 100%		
			000 - 031 No function (shutter closed)		
			032 - 063 No action, shutter open		
			064 - 095 Strobe slow to fast		
7	7	Strobe	096 - 127 No action, shutter open		
'	'	Strone	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	Cyan	000 - 255 0% to 100%		
	9	Cyan fine	000 - 255 0% to 100%		
9	10	Magenta	000 - 255 0% to 100%		
	11	Magenta fine	000 - 255 0% to 100%		
10	12	Yellow	000 - 255 0% to 100%		
	13	Yellow fine	000 - 255 0% to 100%		
11	14	СТО	000 - 255 0% to 100%		
	15	CTO fine	000 - 255 0% to 100%		
			000 - 000 Color off (open)		
			001 - 011 Open / Red		
			012 - 022 Red		
			023 - 033 Red / Amber		
			034 - 044 Amber		
			045 - 055 Amber / Yellow		
			056 - 066 Yellow		
			067 - 077 Yellow / Green		
			078 - 088 Green		
			089 - 099 Green / Light Blue		
			100 - 110 Light Blue		
12	16	Colour Wheel	111 - 121 Light Blue / Light Purple		
			122 - 132 Light Purple		
			133 - 143 Light Purple / Megenta		
			144 - 154 Megenta		
			155 - 165 Megenta / Dark Blue		

1 1		I			
			166 - 176 Dark Blue		
			177 - 188 Dark Blue / Open		
			189 - 192 Open		
			193 - 223 Color Wheel rot. fast -> slow, fwd		
			224 - 224 Color Wheel rot. stop		
			225 - 255 Color Wheel rot. slow -> fast, bwd		
			000 - 013 Open		
			014 - 030 Gobo 1		
			031 - 047 Gobo 2		
			048 - 064 Gobo 3		
			065 - 081 Gobo 4		
			082 - 098 Gobo 5		
			099 - 115 Gobo 6		
			116 - 132 Gobo 7		
			133 - 159 Open		
			160 - 162 Gobo Shake 1 (slow -> fast)		
			163 - 165 Gobo Shake 2 (slow -> fast)		
13	17	Gobo Wheel 1	166 - 168 Gobo Shake 3 (slow -> fast)		
			169 - 171 Gobo Shake 4 (slow -> fast)		
			172 - 174 Gobo Shake 5 (slow -> fast)		
			175 - 177 Gobo Shake 6 (slow -> fast)		
			178 - 180 Gobo Shake 7 (slow -> fast)		
			181 - 191 Open		
			192 - 223 Gobo Wheel rotation fast -> slow, fwd		
			224 - 224 Gobo Wheel rotation Stop		
			225 - 255 Gobo Wheel rotation slow -> fast, bwd		
			000 - 128 Gobo position 0° 540°		
1 1 4	10	Caba 1 Datation	129 - 191 Gobo rotation, fast -> slow, fwd		
14	18	Gobo 1 Rotation	192 - 192 Gobo rotation stop		
			193 - 255 Gobo rotation, slow -> fast -> , bwb		
15	19	Gobo1 Rotation fine	000 - 255 Gobo indexing fine		
16	20	Zoom	000 - 255 Narrow to wide		
	21	Zoom fine	000 - 255 Narrow to wide		
17	22	Focus	000 - 255 0% to 100%		
18	23	Focus fine	000 - 255 0% to 100%		
			000 - 191 Max. diameter to Min.diameter		
			192 - 212 Pulse opening fast to slow		
19	24	Iris	213 - 233 Pulse closing slow to fast		
			234 - 254 Random effect, slow -> fast		
			255 - 255 Fast opening to Fast closing		

26				000 - 005 Prism Off	
21 26	20	25	Prism 1		
21 26 Prism 1 Rot 129 - 191 Prism1 rotation, fast → slow, fwd 192 - 192 Prism1 rotation Stop 193 - 255 Prism1 rotation, slow → fast, bwd 22 27 Prism 2 000 - 005 Prism Off 006 - 255 Prism 2 000 - 128 Prism2 position 0° 540° 23 28 Prism 2 Rot 129 - 191 Prism2 rotation, fast → slow, fwd 192 - 192 Prism2 rotation, slow → fast, bwd 192 - 192 Prism2 rotation, slow → fast, bwd 24 29 Frost soft 000 - 255 0% to 100% 25 30 Frost heavy 000 - 255 0% to 100% 06 - 063 Animation off 006 - 063 Animation indexing 064 - 094 Animation Rotation slow to fast, CCW 095 - 096 No rotation 097 - 127 Animation Rotation slow to fast, CW to CCW 159 - 160 No rotation 161 - 191 Animation Snap. fast to slow, CW 192 - 193 No rotation 194 - 224 Animation Snap. slow to fast, CW to CCW 27 32 Blade 1A 000 - 255 0% to 100% 28 34 Blade 1B fine 000 - 255 0% to 100% 29 37 Blade 2A fine 000 - 255 0% to 100% 30 Blade 2A fine 000 - 255 0% to 10					
192 - 192 Prism1 rotation Stop 193 - 255 Prism1 rotation, slow -> fast , bwd				·	
193 - 255 Prism1 rotation, slow -> fast, bwd 22	21	26	Prism 1 Rot		
22 27					
22 27					
28	22	27	Prism 2		
28					
28				<u>'</u>	
193 - 255 Prism2 rotation, slow -> fast , bwd	23	28	Prism 2 Rot		
24 29				-	
25 30 Frost heavy 000 - 255 0% to 100% 000 - 005 Animation Off 006 - 063 Animation Indexing 064 - 094 Animation Rotation fast to slow, CW 095 - 096 No rotation 097 - 127 Animation Rotation slow to fast, CCW 128 - 158 Animation Rotation slow to fast, CW to CCW 159 - 160 No rotation 161 - 191 Animation Snap. fast to slow, CW 192 - 193 No rotation 194 - 224 Animation Snap. slow to fast, CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Ow to 100% 225 - 25			_		
26		29			
26 31 Animation 006 - 063 Animation indexing 26 31 Animation 095 - 096 No rotation 097 - 127 Animation Rotation slow to fast, CCW 128 - 158 Animation Rotation slow to fast, CW to CCW 159 - 160 No rotation 161 - 191 Animation Snap. fast to slow, CW 192 - 193 No rotation 194 - 224 Animation Snap. slow to fast, CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 28 38 Blade 1A fine 33 Blade 1B 34 Blade 1B 35 Blade 1B fine 36 Blade 2A 37 Blade 2A fine 38 Blade 2A fine 39 Blade 2B fine 300 - 255 0% to 100% 31 40 41 Blade 3A fine 34 Blade 3B fine 35 Blade 3B fine 36 Blade 3B fine 37 Blade 3B fine 39 Blade 3B fine 300 - 255 0% to 100% 31 40 32 Blade 3B fine 33 Blade 4A fine <td>25</td> <td>30</td> <td>Frost heavy</td> <td>000 - 255 0% to 100%</td>	25	30	Frost heavy	000 - 255 0% to 100%	
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Test	26	31	Animation	128 - 158 Animation Rotation slow to fast, CW to CCW	
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194 - 224 Animation Snap. slow to fast, CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 225 - 255 Animation Snap. slow to fast, CW to CCW 33				161 - 191 Animation Snap. fast to slow, CW	
225 - 255 Animation Snap. slow to fast, CW to CCW 32				192 - 193 No rotation	
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32		41	Blade 3A fine 000 - 255 0% to 100%		
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46 Blade 4B 000 - 255 0% to 100%	_ 33	45	Blade 4A fine	000 - 255 0% to 100%	
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35	48	Blade Rotation	000 - 255 0% to 100%	
	49	Blade Rotation fine	000 - 255 0% to 100%	
36	50	Pan/Tilt Speed	000 - 255 Pan/Tilt Fast -> Slow	
			000 - 020 Standard	
			021 - 040 Stage	
37	51	Dim Mode	041 - 060 TV	
37	וכ	Dilli Mode	061 - 080 Architectural	
			081 - 100 Theatre	
			101 - 255 Default to Unit Setting	
			000 - 005 No function	
			006 - 007 Blackout while P/T moving on	
			008 - 009 Blackout while P/T moving off	
			010 - 011 Blackout while wheels moving on	
			012 - 013 Blackout while wheels moving off	
			014 - 041 No function	
			042 - 043 Invert Pan on (hold 3s)	
			044 - 045 Invert Pan off (hold 3s)	
			046 - 047 Invert Tilt on (hold 3s)	
			048 - 049 Invert Tilt off (hold 5s)	
			050 - 051 Pan Angle 540° (hold 3s)	
			052 - 053 Pan Angle 630° (hold 3s)	
			054 - 101 No function	
			102 - 103 Fan Constant Low (hold 3s)	
			104 - 105 Fan Constant Auto (hold 3s)	
38	52	Device settings	106 - 107 Fan Constant High (hold 3s)	
			108 - 163 No function	
			164 - 165 Dimmer Curve Linear (hold 3s)	
			166 - 167 Dimmer Curve Square (hold 3s)	
			168 - 169 Dimmer Curve Inv-Square(hold 3s)	
			170 - 171 Dimmer Curve S-Curve (hold 3s)	
			172 - 221 No function	
			222 - 223 Reset Pan / Tilt (hold 3s)	
			224 - 233 No function	
			234 - 235 Reset Head complete (hold 3s)	
			236 - 237 Reset all functions (hold 3s)	
			250 - 255 No function	



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
	Check if the power switch is turned on	Turn on
No action after	Check if the fuse is blown	Replace
power on	Check if the output of PSU is normal	Detecting voltage
	Check if poor contact in the internal circuit	Reconnect
	Check if the DMX signal cable is connected correctly (If there is no signal, the display screen will flash)	Reconnect or replace
Uncontrolled lighting fixtures	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 Power PCB malfunction Check/ Replace Loose or poor contact of the circuit Reconnect PSU malfunction Replace LED aging Replace Damaged cooling fan or abnormal wind speed Check the power output of the fan Check/ Replace The temperature control switch is damaged Poor contact of motor wire Reconnect Corresponding motor drive board malfunction Misalignment or abnormal control Misalignment or magnetic damage between the magnetic tube and the positioning magnet Motor malfunction Replace Weak light efficiency and uneven light spot The optical mirror has accumulated dust or stains The optical mirror is damaged Replace		LED aging or damage	Replace
Loose or poor contact of the circuit Reconnect PSU malfunction Replace Automatically turn off or dim the lights Gobo wheel misalignment or abnormal control Weak light efficiency and uneven light spot Impure color Impure color LED aging Damaged cooling fan or abnormal wind speed Check the power output of the fan Check/ Replace Check the power output of the fan Check/ Replace Check the power output of the fan Check/ Replace Check the power output of the fan Check/ Replace Check the power output of the fan Check/ Replace Check the power output of the fan Check/ Replace Reconnect Corresponding motor drive board malfunction Misalignment or magnetic damage between the magnetic tube and the positioning magnet Motor malfunction Replace LED aging Replace LED not centered with the lens Adjust LED The optical mirror has accumulated dust or stains The optical mirror is damaged Replace The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean			-
Automatically turn off or dim the lights Automatically turn off or dim the lights Gobo wheel misalignment or abnormal control Weak light efficiency and uneven light spot Impure color Impure color LED aging LED aging General and or abnormal wind speed Check the power output of the fan Check/ Replace Replace Reconnect Corresponding motor drive board malfunction Misalignment or magnetic damage between the magnetic tube and the positioning magnet Motor malfunction Replace Adjust/Replace LED aging Replace LED aging Replace LED not centered with the lens Adjust LED The optical mirror has accumulated dust or stains The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated The optical mirror has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated The optical mirror has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean	Not bright	Loose or poor contact of the circuit	Reconnect
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Gobo wheel misalignment or abnormal control Weak light efficiency and uneven light spot Impure color Impure col	off or dim the lights	Check the power output of the fan	Check/ Replace
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efficiency and uneven light spot The optical mirror has accumulated dust or stains The optical mirror is damaged Replace Weakening of light efficiency The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean Clean Clean Clean Clean		LED aging	Replace
and uneven light spot The optical mirror has accumulated dust or stains The optical mirror is damaged Replace Weakening of light efficiency The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean Clean Clean		LED not centered with the lens	Adjust LED
Weakening of light efficiency Replace led PCB The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean	and uneven light	·	Clean
The color filter has accumulated dust or stains The color filter has been demolded or damaged The optical mirror has accumulated Clean		The optical mirror is damaged	Replace
Impure color stains Clean The color filter has been demolded or damaged Replace The optical mirror has accumulated Clean		Weakening of light efficiency	Replace led PCB
damaged The optical mirror has accumulated Clean	Impure color		Clean
dust or stains			Replace
	Gobo is unclear		Clean
The optical mirror is damaged Replace		The optical mirror is damaged	Replace

Head or base fan stops rotating Check if the fan is damaged Check if there are any other interfering objects within the operating range of the fan		Check if the fan leads are installed properly or disconnected	Re connect
Check if there are any other interfering objects within the operating range of Adjust		Check if the fan is damaged	Replace
	fan stops rotating	objects within the operating range of	Adjust

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

