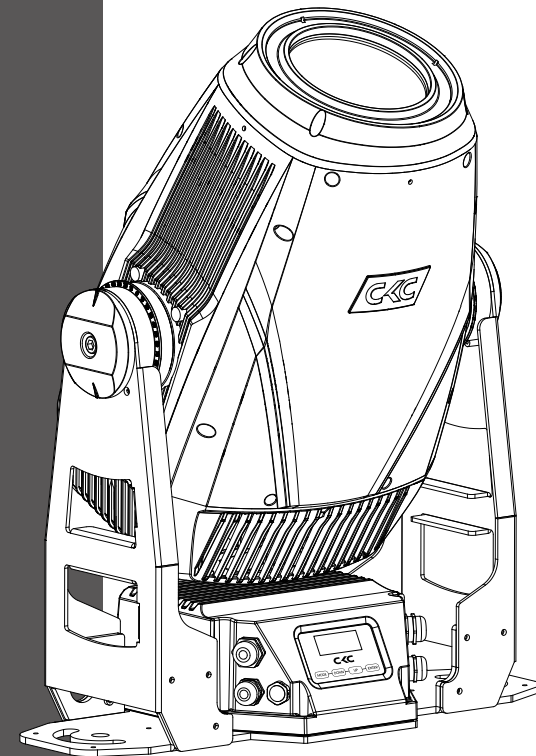




GOBO Projector 380



CKC LIGHTING CO.,LTD

Addr.:335 Nansha Avenue, Tung Chung Town,
Nansha District, Guangzhou City, China.
TEL: (020)3920 4506 FAX: (020)3920 4631
WEB: www.ckclighting.com

www.ckclighting.com



Before carrying out any installation, maintenance, or cleaning of the lighting fixtures, please confirm that the power has been cut off! Before using this fixture, please read this manual. Our company reserves the right to change product design and specifications without prior notice.

CONTENTS

1. Security Warning Information	1
2. Product Introduction	3
2.1 Exterior dimensions	3
2.2 Fixture packaging accessories	3
3. Main technical parameters of the equipment	3
4. Packaging and transportation	8
4.1 Disassemble packaging	8
4.2 Equipment installation	8
5. Installation Requirements Explanation	8
5.1 Clamp installation	8
5.2 Installation Diagram	9
6. Power and signal connection	10
6.1 Power and signal socket	10
6.2 Power Connect	10
6.3 Signal Connect	11
7. Control panel	11
7.1 Panel Introduction	11
7.2 System menu	12
8. DMX control channel table	13
9. Control circuit diagram	17
10. Regular maintenance	18
10.1 Cleaning and maintenance	18
10.2 Fault analysis and handling	18

★ 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.

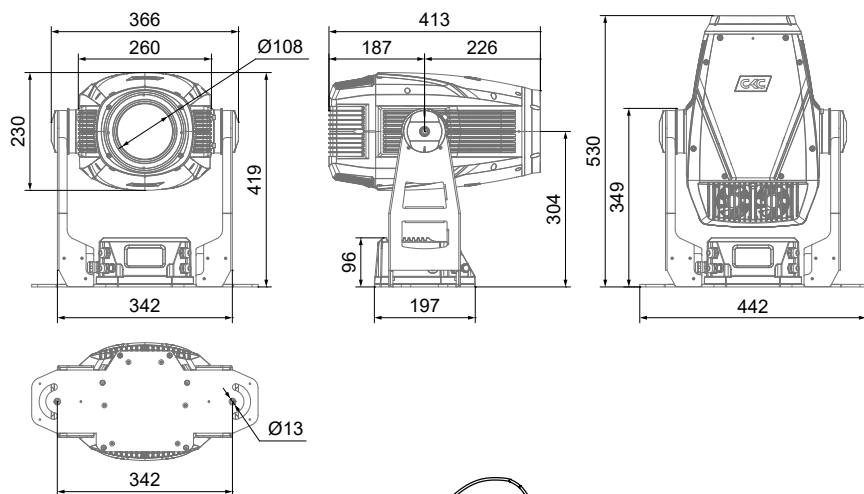


- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp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

2. Product Introduction

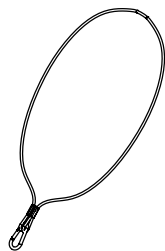
2.1 Exterior dimensions of lighting fixtures

442 × 230 × 530 mm



2.2 Packaging accessories

Name	QTY
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: 451 W
 Power factor: 0.99F
 Input Current: 2.11A 220V

● Source lifespan

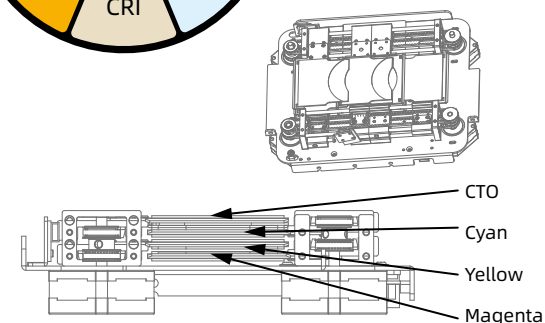
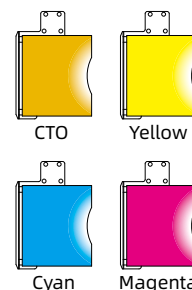
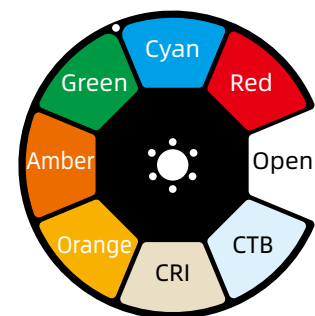
>20000 hours

● Optical system

Source: 380W CW LED
 Beam angle: 7 ~ 40°
 Output luminous flux: 17500 Lm

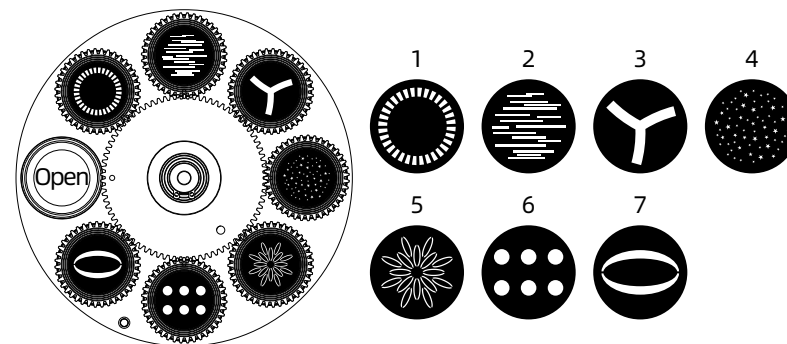
● Color system

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



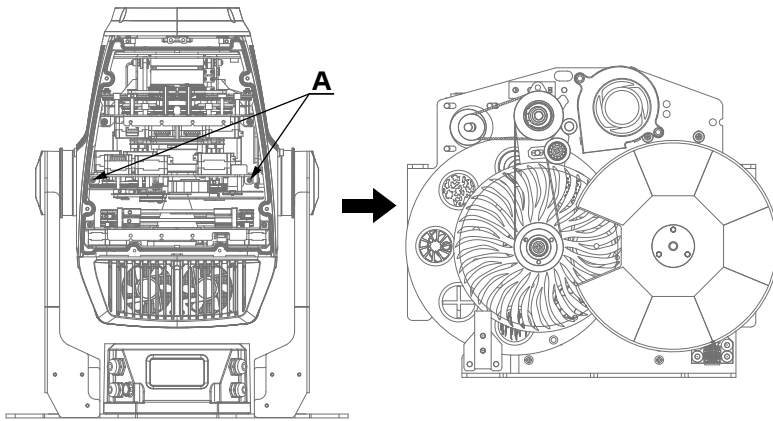
● Gobo system

Rotation gobo: 7+1
 Gobo outer diameter: 23mm ± 0.2 mm
 Internal diameter: 19mm
 Thickness: 0.5mm

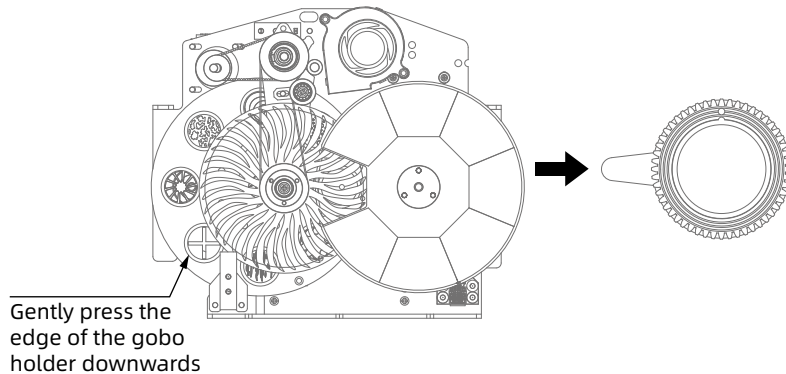


Gobo replace

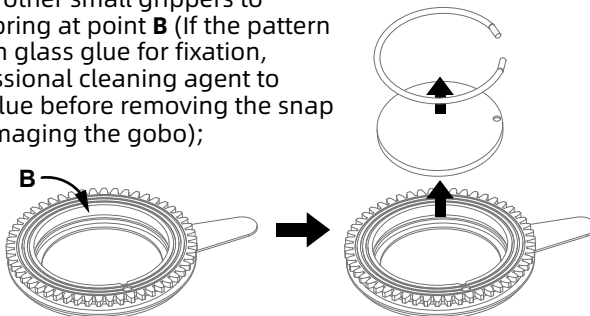
a). Remove the two screws at location **A**, unplug the power and signal adaptercables, and extract the Gobo component;



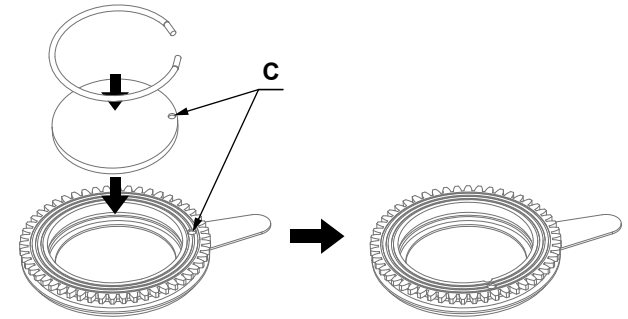
b). From the front of the Gobo wheel, gently press down on the edge of the Gobo holder, and then slowly pull out the Gobo holder to remove a single Gobo;



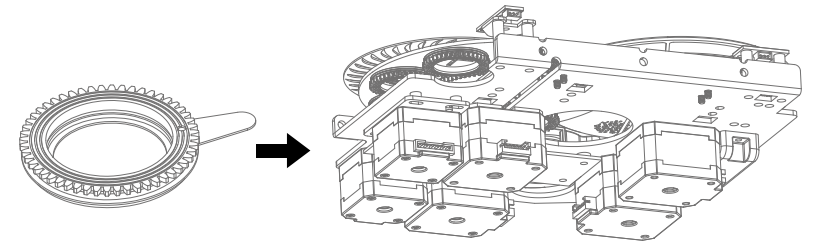
c). Use tweezers or other small grippers to remove the snap spring at point **B** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



d). When assembling the gobo, avoid touching it directly with your hands. As shown in **C**, 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 driven wheel into the driving wheel assembly, and the concave point of the driven wheel must be aligned with the concave point of the driving wheel (i.e. the concave point of the driven wheel and the concave point of the driving wheel are on the same straight line);

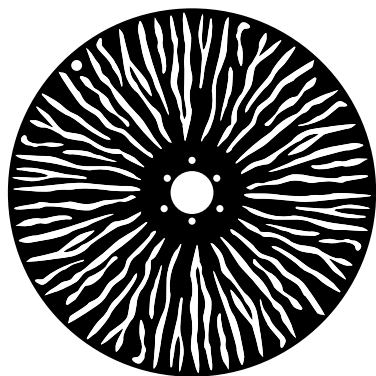


f). After installation, simply reinstall the gobo wheel component onto the light fixture.

Fixed gobo: 8+1

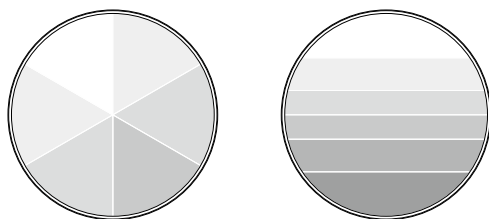


● Animation



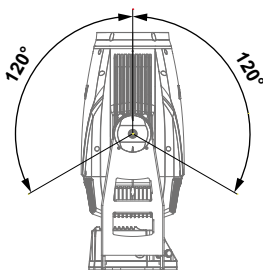
● Prism system

4 prism+ 6 linear



● Tilt

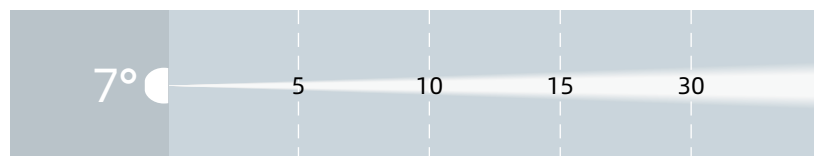
Horizontal fixed angle, can't be adjust
Vertical adjustable angle, adjustable angle range $\pm 120^\circ$



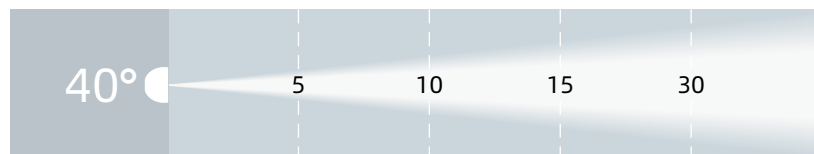
● Control and programming

Control channel: 30 CH
Protocol: DMX512, RDM
Data connect: 3 pin signal in/out

● Illumination draw



Lux	33800	8580	3755	938
Distance(m)	0.61	1.22	1.83	3.67



Lux	2000	795	222	
Distance(m)	3.64	7.28	10.92	

● Other effect function

Fast electronic strobe: 1~25Hz

Frost: Light frost+heavy frost

● Other features and functions

Weight: 19 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

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

5. Installation Requirements Explanation

5.1 Clamp install

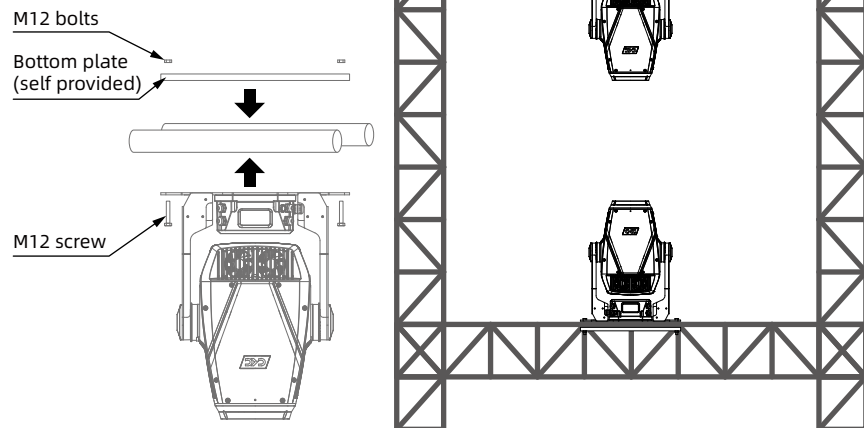
1. After the bottom plate of the fixtures is tightly attached to the truss, use M12 bolts to pass through the installation holes on the bottom plate, and lock the other end with M12 nuts.
2. After fixing the fixture on the truss, one safety cable must be added and connected to the circular hole of the fixture arm



Warning !

The lighting fixture must be fixed with 2 M12 screws, and an additional safety rope must be connected to the safety rope holes on the left and right support plates of the arm. Be careful not to connect it to the handling handle.

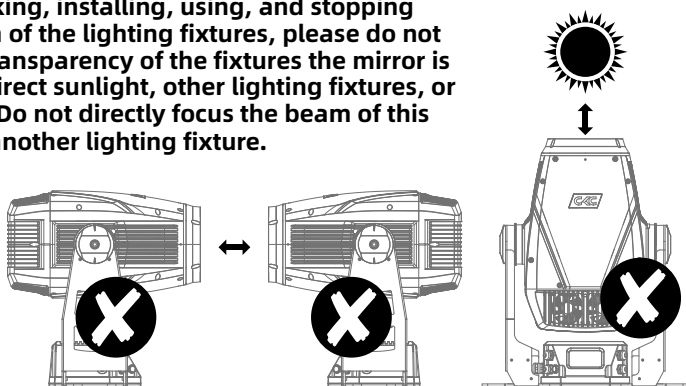
5.2 Installation Diagram



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.

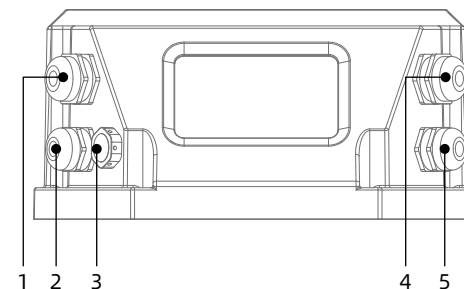
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams, Do not directly focus the beam of this device onto another lighting fixture.



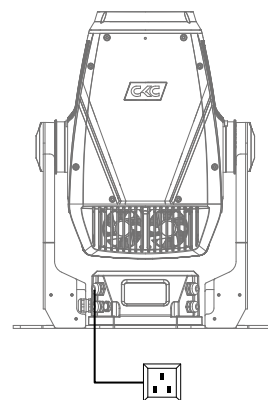
6. Power、Signal connect

6.1 Power and signal socket

- 1、Power Input
- 2、DMX Input
- 3、Breathable valve
- 4、Power Output
- 5、DMX Output



6.2 Power connect



Connection method:

L(live wire) - brown wire

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

N(Zero Line) - Blue Line

When connecting the power supply, please note that the voltage and frequency of the power supply must match the voltage and frequency marked on the light fixture. When multiple fixtures are used simultaneously, it is recommended to connect the power supply of each fixture separately, so that each fixture can be individually controlled for power on/off.



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



Power In

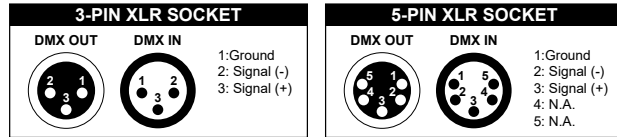
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2-square 220V power cord can carry up to 1 products.



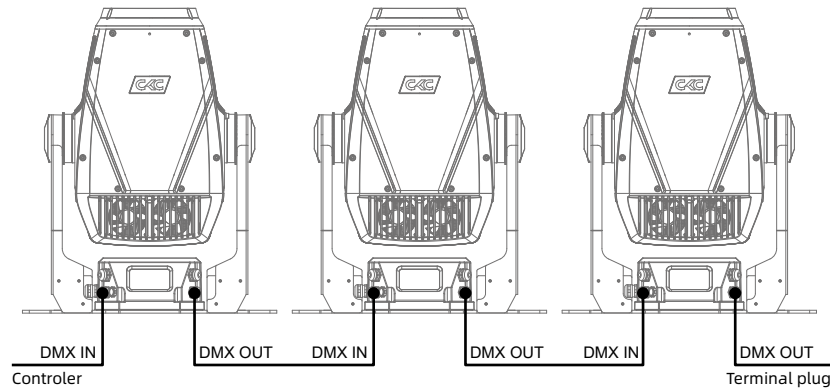
Warning !

- 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.

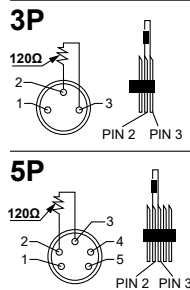
6.3 Signal connect



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



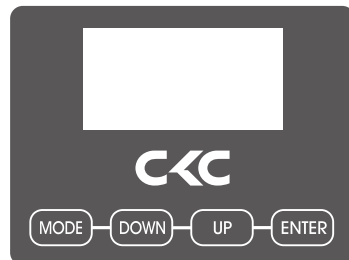
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 pin socket of each connected lamp output. (Weld a 4/1W, 120 Ω resistor between the 2 and 3 pins of a 3 or 5 core pin XLR plug).



7. Control panel

7.1 Panel Introduction

- Adopting a LCD display screen;
- Press the MODE key to view or modify the lighting function settings, and press the UP, DOWN 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 Gobo Projector 380			
CH:Simple 30CH ADDRESS:001			
DMX settings	ADDRESS	A001~AXXX	
Function	Dim Mode	Standard Stage TV Architectural Theatre	
	Fan Set	Head Fan	Auto High Low
	LCD.Set	Backlight Key Lock DispFlash	01~60m OFF/ON OFF/ON
	Factory Restore	OFF/ON	
	Reset Motors	All Reset	
	Calibrate	-Password 050- GOBO :	
	Manual control	DIMMER =XXX	
Info	Time.Info	Power On Time(Hours) LED On Time(Hours) Clear Time(ON/OFF Password=50)	
	Temp. Info	Head Temp. Base Temp.	
	Error. Info	...	
	Software.V	1U V 1.X.X 2U V 1.X.X 3U V 1.X.X 4U V 1.X.X	

Program	Play Scene/ Loop	User Scene 1 User Scene 2			
	Edit User Scene	User Scene 1 User Scene 2	Edit Step 1...15 Edit Step 1...15	Edit Manual + Hold + Fade	Manual+0.1s- 20min
	Clear Program	User Scene 1 User Scene 2 Clear All	Clear Step1...15 + Clear Scene Clear Step1...15 + Clear Scene		

8. DMX channel table:

ST.	Function	Values	
1	Cyan	0~255	0% to 100%
2	Cyan Fine	0~255	0% to 100%
3	Magenta	0~255	0% to 100%
4	Magenta Fine	0~255	0% to 100%
5	Yellow	0~255	0% to 100%
6	Yellow Fine	0~255	0% to 100%
7	CTO	0~255	0% to 100%
8	CTO Fine	0~255	0% to 100%
9	White Color Temp Presets	0~23	Open
		24~63	See WCT Preset Chart
		65~255	6700K
10	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
		0~31	OFF
		32~39	Macro1
		40~47	Macro2
		48~55	Macro3

11	Color Macros - CMY and Color Wheel	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
12	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

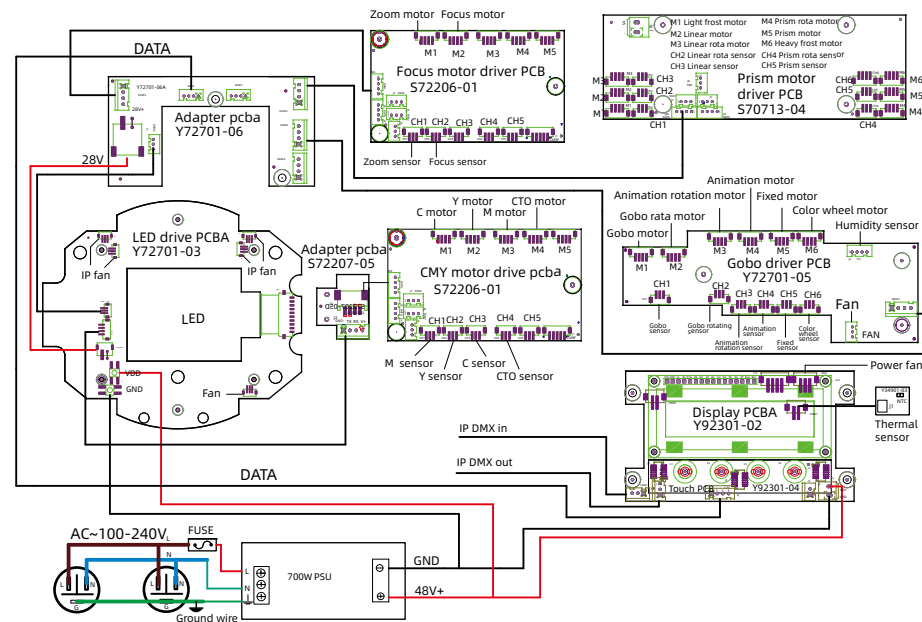
13	Gobo 1 Rotation	0~5	Gobo1 Rot. Off
		6~128	Gobo Index 0° ... 540°
		129~191	Clockwise Gobo Rotation, Fast -> Slow
		192~192	No Rotation
		193~255	Counter Clockwise Gobo Rotation, Slow -> Fast
14	Gobo 1 Rotation fine	0~255	Gobo indexing fine
15	Gobo Wheel 2	0~5	Open
		6~14	Gobo 1
		15~23	Gobo 2
		24~32	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
16	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
17	Dimmer	0~255	Intensity 0 to 100%
18	Dimmer fine	0~255	Dimmer Intensity Fine
		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

19	Prisms and Prism/Gobo Macros	168~175	Macro6
		176~183	Macro7
		184~191	Macro8
		192~199	Macro9
		200~207	Macro10
		208~215	Macro11
		216~223	Macro12
		224~231	Macro13
		232~239	Macro14
		240~247	Macro15
		248~255	Macro16
20	Prism Rotation	0~5	Prism Rot. Off
		6~128	Prism Indexing 0 ... 540°
		129~191	Clockwise Prism Rotation, Fast -> Slow
		192~192	No Rotation
		193~255	Counter Clockwise Prism Rotation, Slow-> Fast
		0~255	0% to 100%
		0~255	0% to 100%
		0~255	Narrow to wide
24	Zoom fine	0~255	Narrow to wide 16-bit
		0~255	0% to 100%
26	Heavy Frost	0~255	0% to 100%
27	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
28	CMY & Color Macro Speed	0~255	CMY / Color Macro Speed Max -> Min
29	Dimmer Mode	0~20	Standard
		21~40	Stage
		41~60	TV
		61~80	Architectural
		81~100	Theater
		101~120	Default to Unit Setting
30	Device settings	0~30	No function
		31~40	Fan Mode Auto(Hold 3s)
		41~50	Fan Mode High (Hold 3s)
		51~60	Fan Mode Low(Hold 3s)
		61~70	All motor Reset (Hold 3s)
		71~255	No function

WCT Preset Chart:

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

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 !

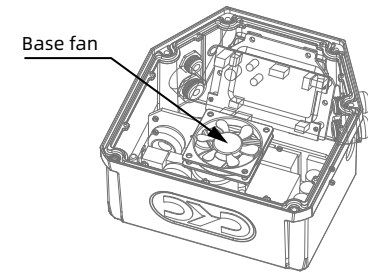
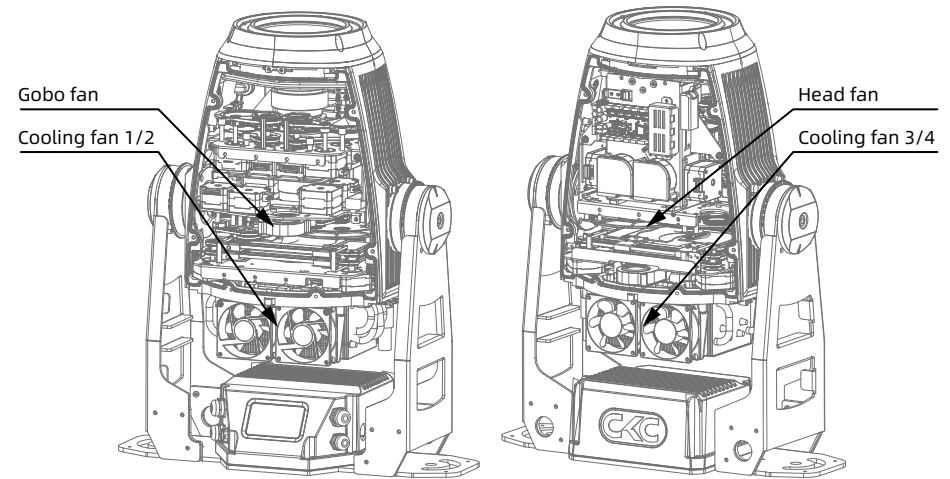
Before opening any lid, disconnect the power supply. Cleaning optical components requires gentle wiping as the coating surface is prone to scratching. Do not use damaging liquids or hard objects, as they may damage the plastic or coating surface.

- 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