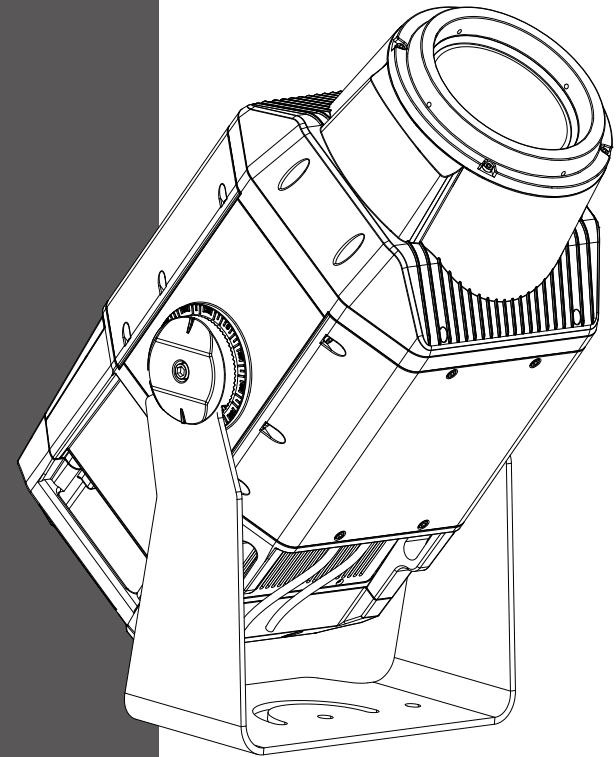




GOBO PROJECTOR 400



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

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★ Statement ★

- This manual contains important information on safe use and installation. Please read it carefully and follow the requirements for operation and installation. Please keep this manual properly;
- The equipment has good performance and complete packaging when it leaves the factory. The operator should strictly follow the warning items and operating instructions stated in the manual. Any malfunction or damage caused by misuse or neglect of the manual is not within the scope of our company's responsibility and warranty;
- The relevant information in this manual is for reference only. All lighting products are subject to the actual product. Any changes will not be notified separately, and our company reserves the right of final interpretation.

1. Security Warning Information



Attention !

Please read the safety requirements information in this section carefully before installing, powering on, operating, or repairing the lighting fixtures.



- This product is for professional use and is not suitable for other purposes;
- After receiving the lighting fixtures, please check if the packaging is complete and unpack to check if the equipment has been damaged due to transportation. If there is any damage caused by transportation, please do not use this lamp and contact local technicians or manufacturers as soon as possible;
- When transporting again, please use the original packaging materials;
- If there is obvious damage to the machine casing, it should be replaced in a timely manner;
- When hanging lamps, it is necessary to verify that the hanging equipment can withstand more than 6 times the weight of the lamp. After installation, it is necessary to verify that the lamp cover and installation buckle are secure and undamaged. At the same time, a safety rope should be used as an auxiliary safety for the lamp and fixed on the truss;
- The light source inside this luminaire should be replaced by the manufacturer, its service agent, or a similarly qualified person;
- If you have any other questions about how to safely operate the equipment, please contact our technical personnel or call our service hotline;
- This product has a protection level of IP65 and can be used both indoors and outdoors;
- Avoid direct external strong light shining on the lens, which may cause the lens to focus and burn out internal components.



- Lighting fixtures should be kept clean and avoid prolonged use in overheated or dusty environments to prevent contact with chemical liquids;
- When using the product, attention should be paid to avoiding serious or fatal injuries caused by fire, heat, electrical shock, and ultraviolet radiation. Before powering on or installing, read the instruction manual first. Follow the safety precautions for operation and pay attention to the warning signs on the instructions and equipment;
- Only professionals are allowed to install, operate, and maintain lighting fixtures, and strictly follow the procedures stated in the operating instructions.



- The eyes cannot directly look at the luminous object;
- Do not connect this device to any dimmer;
- If visible damage occurs to the protective casing, lens, and display screen on the lighting fixture, it is considered as damage to the point of loss;
- Please do not place any filters or other items at the light outlet, and do not replace non original parts;
- The minimum safe illumination distance of the lamp is 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.



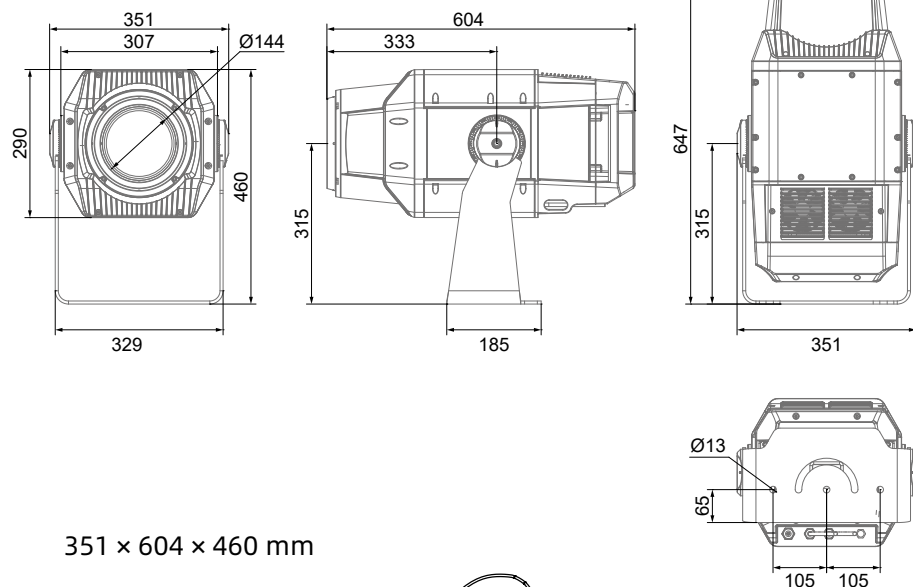
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 75 °C , please do not touch it 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

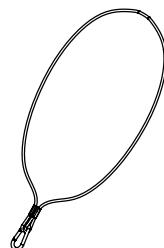
2.1 Exterior dimensions of lighting fixtures



351 × 604 × 460 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

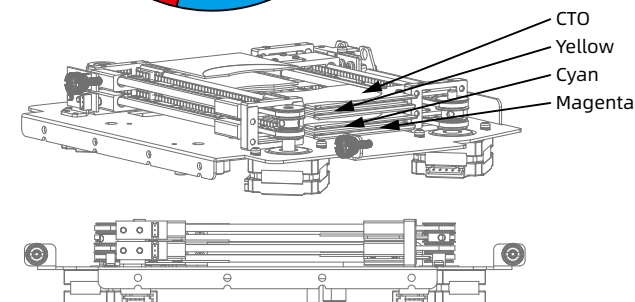
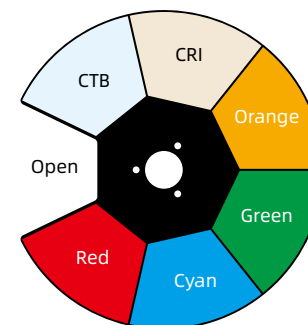
Rated input voltage: AC 100V~240V~ 50Hz/60Hz
 Rated power of the entire fixture: 670 W
 Power factor: 0.99F
 Input Current: 3.03A 220V

● Source lifespan

>20000 hours

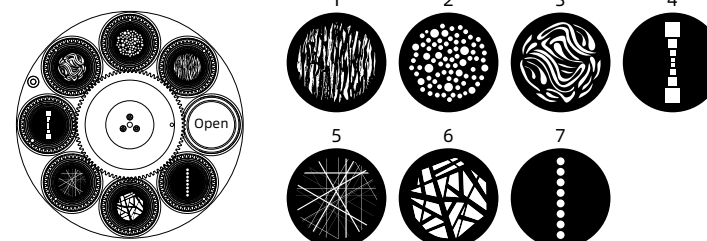
● Color system

CCT: 6500K
 CRI: 70
 Color wheel: 6+1
 CMY+CTO

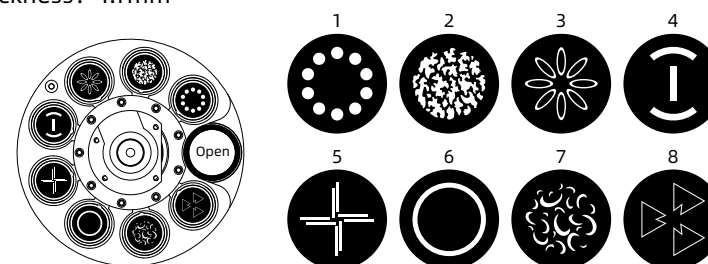


● Gobo system

Rotation gobo wheel
 Gobo outer diameter: 23 ± 0.2 mm
 Internal diameter: 16mm
 Thickness: 1.1mm



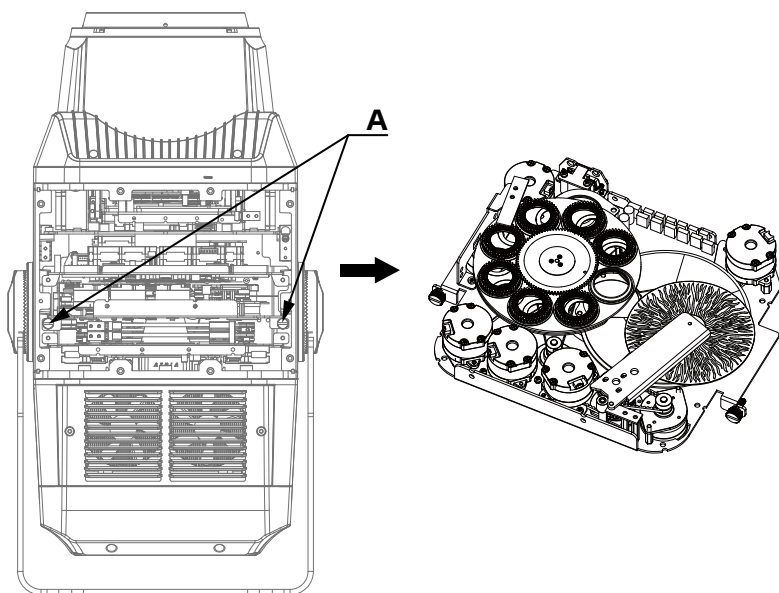
Fixed gobo wheel
 Gobo outer diameter: 23 ± 0.2 mm
 Internal diameter: 13mm
 Thickness: 1.1mm



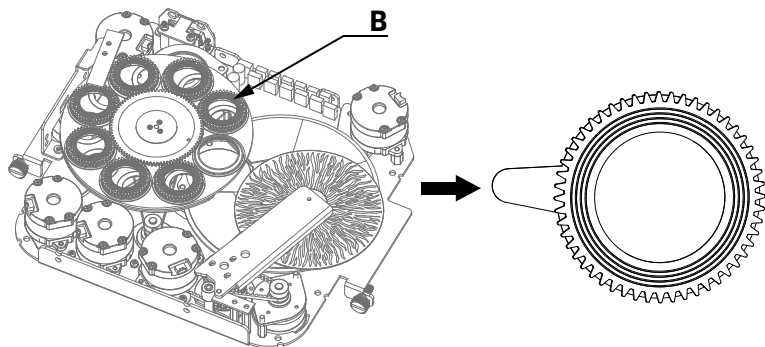
Gobo replace

1) Rotation gobo wheel

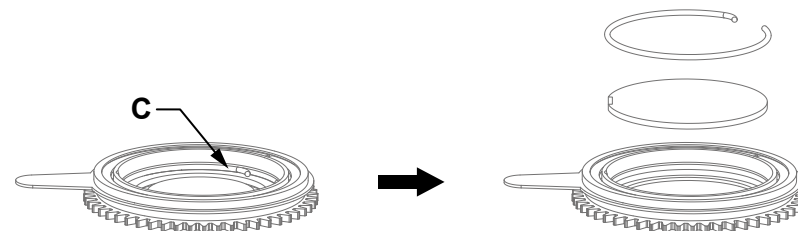
- a). Remove the two screws at location **A**, unplug the power and signal adapter cables, and extract the Gobo component;



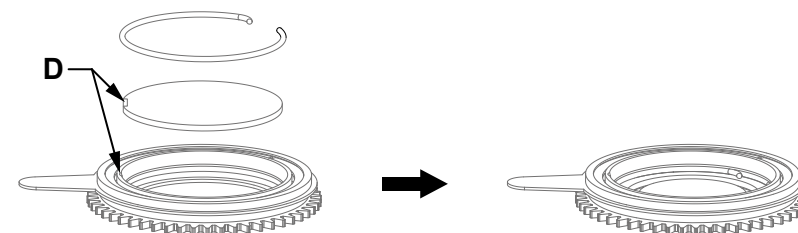
- b). As shown in **B**, gently lift the driven wheel from the edge upwards from the front of the pattern plate and slowly pull it out to remove a single pattern seat;



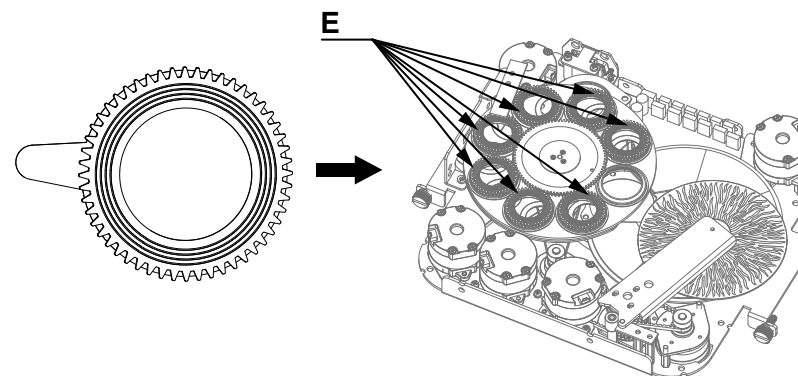
- c). Use tweezers or other small grippers to remove the snap spring at point **C** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



- 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);

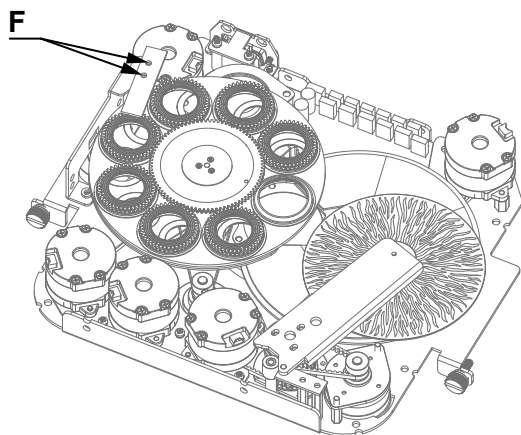


- e). Insert the gobo holder into the drive wheel assembly, as shown in **E**, and reinstall the gobo holder in the order it was removed; The positioning point of the gobo holder should be aligned with the positioning point of the driving wheel; After installation, simply reinstall the gobo wheel component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

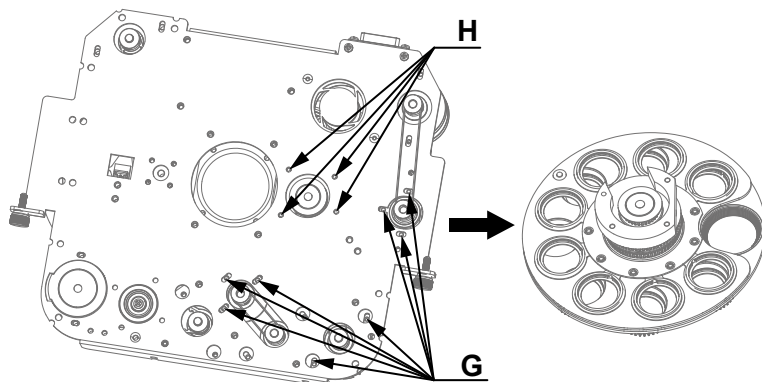


2) Fixed gobo wheel

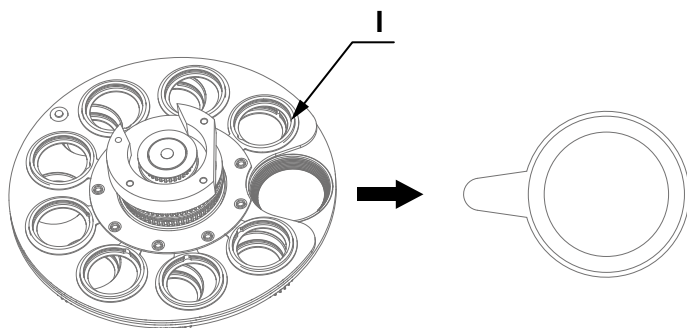
a). Unscrew the 2 screws on the front **F** of the gobo wheel component and remove the magnetic sensing plate;



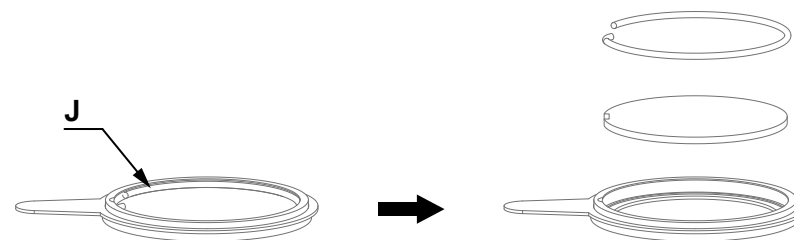
b). Reverse the components and loosen the 8 screws at **G** to loosen the belt; Unscrew the 4 screws at position **H** again to remove the gobo wheel component of the pattern disk;



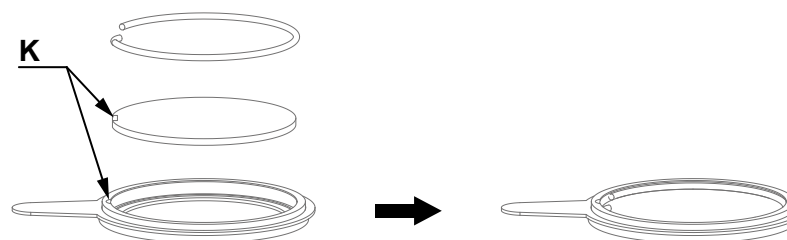
c). As shown in **I**, gently lift the gobo holder from the edge of the fixed gobo wheel and slowly pull it out to remove a single gobo holder;



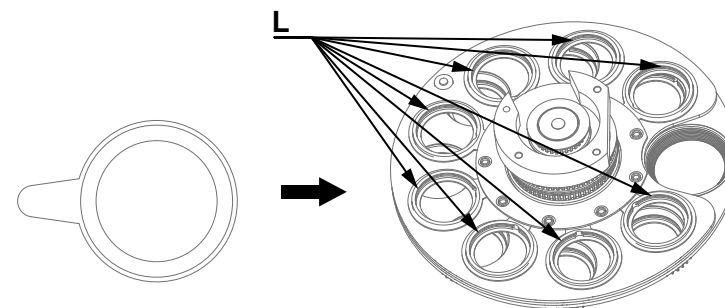
d). Use tweezers or other small grippers to remove the snap spring at point **J** (If the pattern piece is coated with glass glue for fixation, please use a professional cleaning agent to remove the glass glue before removing the snap spring to avoid damaging the gobo);



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



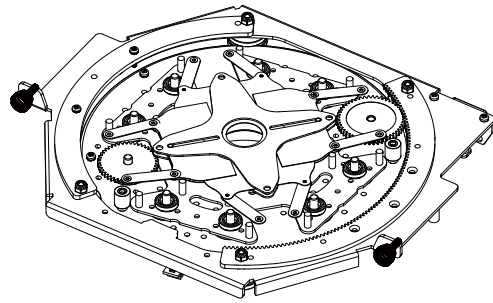
f). Insert the gobo wheel into the drive wheel assembly, as shown in **L**, and reinstall the gobo holder in the order it was removed;



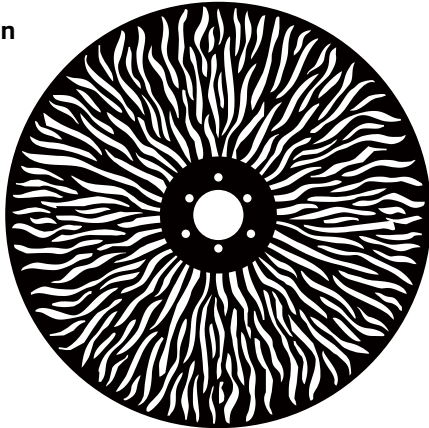
g). After installation, simply reinstall the gobo wheel component onto the light fixture.

● Framing system

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

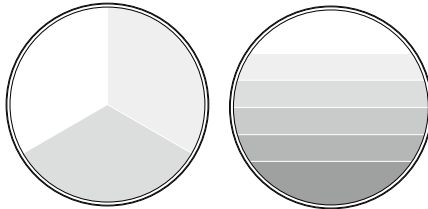


● Animation



● Prism system

3 prism+ 6 linear



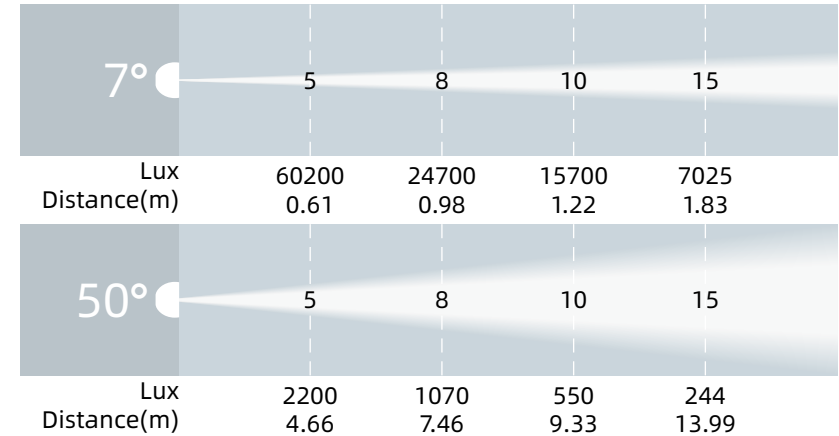
● Optical system

Source: 400W CW LED
Beam angle: $7 \sim 50^\circ$
Output luminous flux: 21000 Lm

● Control and programming

Control channel: 29CH/49CH
Protocol: DMX512, RDM
Data connect: 3 pin signal in/out

● Illumination draw



● Other effect function

Fast electronic strobe: 1~25Hz
LED refresh frequency: 900Hz-25KHz

Frost: 1
Iris

● Other features and functions

Weight: 30.8 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.

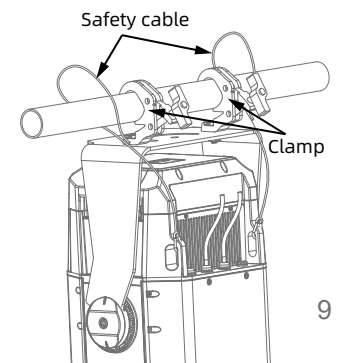
4.2 Equipment packaging

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

5. Installation Requirements Explanation

5.1 Clamp install

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.



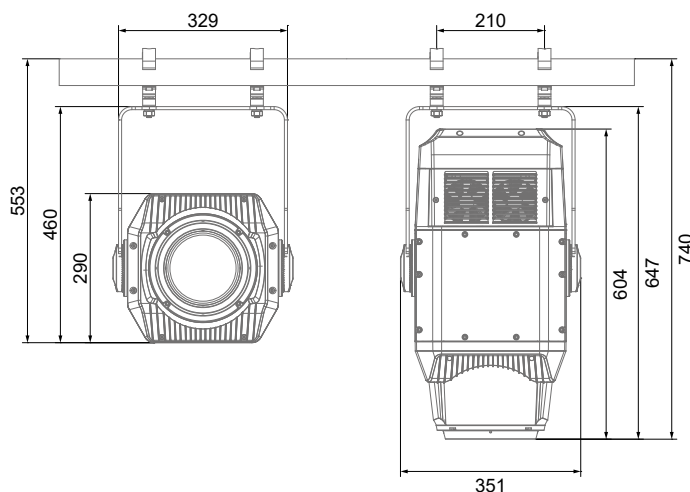
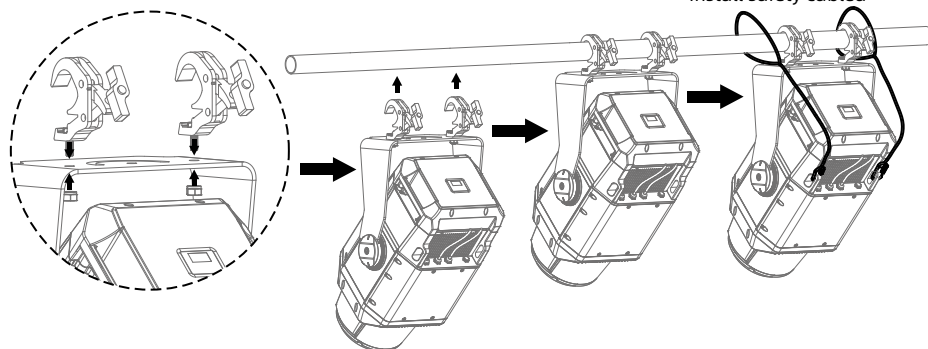


Warning !

The lighting fixture must be fixed with 2 clamp device, and an additional safety rope must be added to connect it to the safety hook. Be careful not to connect it to the handle.

Quick lock and clamp install

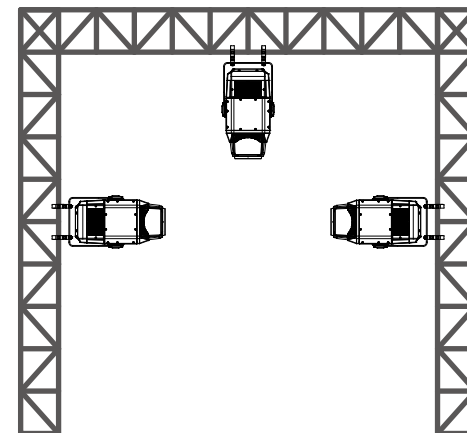
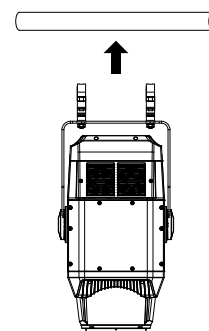
Install safety cable



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 clamp on the handle, insert the clamp horizontally into the handle mounting hole, and tighten the screw (the shape of the light hook should be based on the actual product).

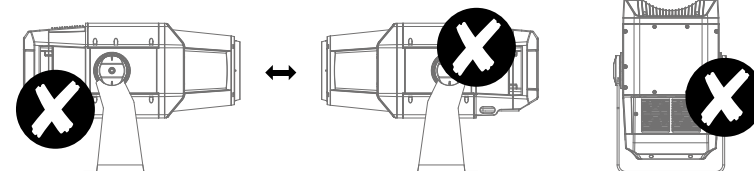
5.3、Hanging Installation Diagram



Reminder: External beam source may damage internal lighting fixtures

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

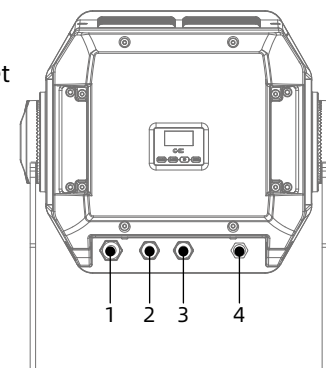
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams, Do not directly focus the beam of this device onto another lighting fixture.



6. Power、Signal connect

6.1 Power and signal socket

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



6.2 Power connect

Connection method:

L(live wire) - brown wire

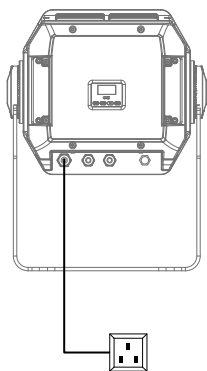
E(Ground wire) - yellow/green dual color line

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

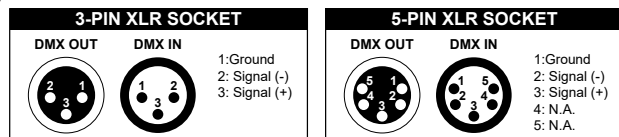
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2-square 220V power cord can carry up to 1 products.



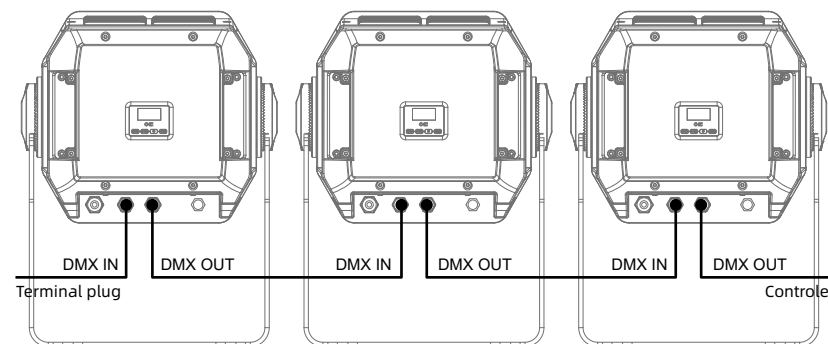
Warning !

- 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.

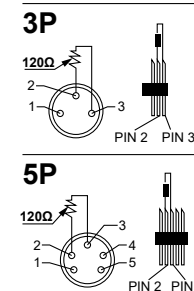
6.3 Signal connect



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.



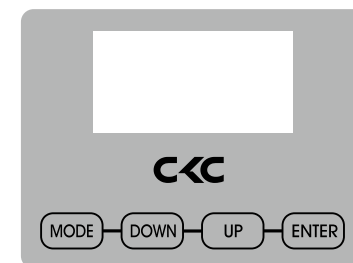
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3/5 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 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 400 Head Temp xxxF/xxxC Motor Reset Please Wait..		
Menu Address	Address	001-xxx
Menu User Mode	Standard(29CH) Extend (49CH)	
Menu Function	Status	Lost Dmx Black/ Hold Hibernation OFF , 01M~99M
	Master	ON / OFF
	Slave	ON / OFF
	Fan Settings	Auto High Low
	Dim Modes	Standard Stage TV Architectural Theatre
	Dim Curves	Linear Square Square Inverse S-Curve
	Frequency	900/1000/1100/ 1200 /1300/1400/1500/2500/4000/ 5000/10K/15K/20K/25K
	Reset Motors	Reset All Motors YES / NO
		Gobo Reset YES / NO
		Focus Reset YES / NO
		Other Reset YES / NO
	LCD Settings	Backlight 30S /01M~10M /OFF
		Key Lock ON/OFF/ ON1
		Flip Display ON/ OFF
		DispFlash ON /OFF
	Calibration (Password=50)	Cyan 000-255
		Magenta 000-255
		Yellow 000-255
		...
	DFSE	ON/OFF
	Menu Manual Control	Dimmer 000-255
		Dimmer Fine 000-255
		Shutter 000-255
		... Control 000-255

Menu Information	Time.Info	Current Time(Hours) Total Time(Hours) Last Time(Hours) Timer PIN (ON/ OFF) Clear Last(Password=050) Clear Total(Password=060)	xxxxxx Hours			
	Temp. Info	LED Temp	xxxF/xxxC			
		Base Temp	xxxF/xxxC			
	DMX Values	Red				
		Green				
		...				
		Control				
	Product ID's	RDM UID				
	Error. Info	NONE/GoboRot/FixedGobo...				
	Model. Info	Gobo Projector 500FC				
Software.V	1U:V1.0.1 2U:V1.0.1 3U:V1.0.1 4U:V1.0.1 5U:V1.0.1 6U:V1.0.1 7U:V1.0.1					
Program	Play Scene/ Loop	User Scene 1 User Scene 2				
	Edit User Scene	User Scene 1 User Scene 2	Edit Step1...15 Edit Step 1...15	Edit Manual + Hold + Fade	Manual+ 0.1s-20min	
	Clear Program	User Scene 1 User Scene 2 Clear All	Clear Step 1...15 + Clear Scene Clear Step 1...15 + Clear Scene			

8. DMX channel table:

St	Ex	Value	Function
1	1	000 - 255	Dimmer (intensity): Intensity 0 to 100%
2	2	000 - 255	Dimmer Fine 16-bit: Intensity 0 to 100%
3	3	000 - 031	Shutter, strobe: No function (shutter closed)
		032 - 063	No action, shutter open
		064 - 095	Strobe slow to fast
		096 - 127	No action, shutter open
		128 - 159	Slow to fast pulse effect
		160 - 191	No action, shutter open
		192 - 223	Slow to fast random strobe
		224 - 255	No action, shutter open
4	4	000 - 255	Cyan: Cyan(0-100%)

	5		Cyan Fine:
		000 - 255	Cyan Fine
5	6		Magenta:
		000 - 255	Magenta(0-100%)
	7		Magenta Fine:
		000 - 255	Magenta Fine
6	8		Yellow:
		000 - 255	Yellow(0-100%)
	9		Yellow Fine:
		000 - 255	Yellow Fine
7	10		CTO:
		000 - 255	CTO(0-100%)
	11		CTO Fine:
		000 - 255	CTO Fine
8	12		Color Wheel 1:
		000 - 005	Colour off (open)
		006 - 011	Color1
		012 - 017	Color2
		018 - 023	Color3
		024 - 029	Color4
		030 - 035	Color5
		036 - 041	Color6
		042 - 047	Colour off (open)
		048 - 127	Color Index
		128 - 190	Color Wheel rot. Fast -> Slow, CW
		191 - 192	Color Wheel rot. Stop
		193 - 255	Color Wheel rot. Slow -> Fast, CCW
9	13		Rotating gobos, cont. rotation:
		000 - 006	Open
		007 - 013	Gobo 1
		014 - 020	Gobo 2
		021 - 027	Gobo 3
		028 - 034	Gobo 4
		035 - 041	Gobo 5
		042 - 048	Gobo 6
		049 - 055	Gobo 7
		056 - 062	Gobo 1 shake (slow-fast)
		063 - 069	Gobo 2 shake (slow-fast)
		070 - 076	Gobo 3 shake (slow-fast)
		077 - 083	Gobo 4 shake (slow-fast)
		084 - 090	Gobo 5 shake (slow-fast)
		091 - 097	Gobo 6 shake (slow-fast)
		098 - 104	Gobo 7 shake (slow-fast)

		105 - 178	Gobo Wheel rot. Fast -> Slow, CW
		179 - 181	Gobo Wheel rot. Stop
		182 - 255	Gobo Wheel rot. Slow -> Fast, CCW
10	14		Gobo rotation:
		000 - 127	GoboRot indexing
		128 - 190	GoboRot clockwise from fast to slow
		191 - 192	Stop
	15	193 - 255	GoboRot counter-clockwise from slow to fast
			Gobo rotation Fine:
	15	000 - 255	Gobo indexing fine
			Fixed gobos, cont. rotation:
11	16	000 - 006	Open
		007 - 013	Gobo 1
		014 - 020	Gobo 2
		021 - 027	Gobo 3
		028 - 034	Gobo 4
		035 - 041	Gobo 5
		042 - 048	Gobo 6
		049 - 055	Gobo 7
		056 - 062	Gobo 8
		063 - 069	Gobo 1 shake (slow-fast)
		070 - 076	Gobo 2 shake (slow-fast)
		077 - 083	Gobo 3 shake (slow-fast)
		084 - 090	Gobo 4 shake (slow-fast)
		091 - 097	Gobo 5 shake (slow-fast)
		098 - 104	Gobo 6 shake (slow-fast)
		105 - 111	Gobo 7 shake (slow-fast)
		112 - 118	Gobo 8 shake (slow-fast)
		119 - 185	FixedGobo Wheel rot. Fast -> Slow, CW
		186 - 188	FixedGobo Wheel rot. Stop
		189 - 255	FixedGobo Wheel rot. Slow -> Fast, CCW
12	17		Prism :
		000 - 005	No Prism 1
		006 - 127	Prism 1 (3 Facet)
		128 - 255	Prism 2 (6 Facet)
13	18		Rotating prism 1 index, prism 1 rotation:
		000 - 127	Prism indexing
		128 - 189	Clockwise rotation from fast to slow
		190 - 193	No rotation
		194 - 255	Counter-Clockwise rotation from slow to fast
	19		Prism Index fine 16-bit:
		000 - 255	Intensity 0 to 100%

14	20		Focus:
		000 - 255	Continuous adjustment from far to near
	21		Focus fine 16-bit:
		000 - 255	Intensity 0 to 100%
15	22		Zoom:
		000 - 255	Zoom from min. to max.beam angle
	23		Zoom fine 16-bit:
		000 - 255	Intensity 0 to 100%
16	24		Iris:
		000 - 191	Max. diameter to Min.diameter
		192 - 223	Pulse opening fast to slow
		224 - 255	Pulse closing slow to fast
	25		Iris Fine:
		000 - 255	Iris Fine
17	26		Frost
		000 - 255	Open to Full Frost
18	27		Animation index,animation rotation:
		000 - 005	Open
		006 - 127	Animation indexing
		128 - 189	Clockwise rotation from fast to slow
		190 - 193	No rotation
19	28		Blade 1A
		000 - 255	0% - 100%
	29		Blade 1A Fine
		000 - 255	0% - 100%
20	30		Blade 1B
		000 - 255	0% - 100%
	31		Blade 1B Fine
		000 - 255	0% - 100%
21	32		Blade 2A
		000 - 255	0% - 100%
	33		Blade 2A Fine
		000 - 255	0% - 100%
22	34		Blade 2B
		000 - 255	0% - 100%
	35		Blade 2B Fine
		000 - 255	0% - 100%
23	36		Blade 3A
		000 - 255	0% - 100%
	37		Blade 3A Fine
		000 - 255	0% - 100%

24	38		Blade 3B
		000 - 255	0% - 100%
	39		Blade 3B Fine
		000 - 255	0% - 100%
25	40		Blade 4A
		000 - 255	0% - 100%
	41		Blade 4A Fine
		000 - 255	0% - 100%
26	42		Blade 4B
		000 - 255	0% - 100%
	43		Blade 4B Fine
		000 - 255	0% - 100%
27	44		Shape Rotation
		000 - 255	0% - 100%
	45		Shape Rotation Fine
		000 - 255	0% - 100%
	46		Framing Speed:
		000 - 255	Speed Max - >Min
47			Framing Macro:
		000 - 007	OFF
		008 - 015	Macro1
		016 - 023	Macro2
		024 - 031	Macro3
		032 - 039	Macro4
		040 - 047	Macro5
		048 - 055	Macro6
		056 - 063	Macro7
		064 - 071	Macro8
		072 - 079	Macro9
		080 - 087	Macro10
		088 - 095	Macro11
		096 - 103	Macro12
		104 - 111	Macro13
		112 - 119	Macro14
		120 - 127	Macro15
		128 - 135	Macro16
		136 - 143	Macro17
		144 - 151	Macro18
		152 - 159	Macro19
		160 - 167	Macro20
		168 - 175	Macro21
		176 - 183	Macro22
		184 - 191	Macro23

9. Control circuit diagram



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
	The optical mirror has accumulated dust or stains	Clean
Gobo is unclear	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

