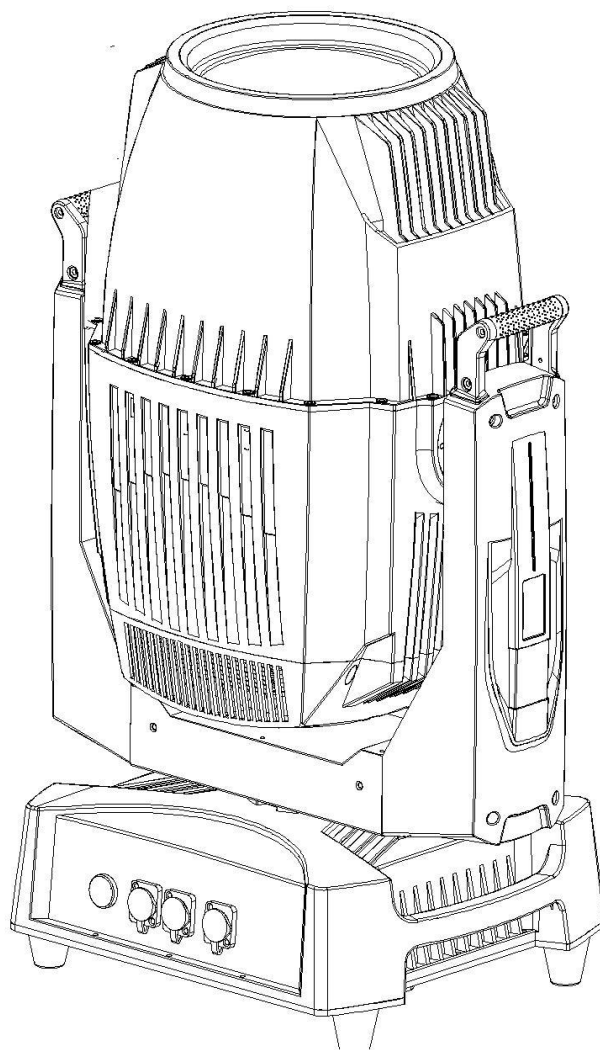


USER MANUAL



380W BEAM SPOT WASH MOVING HEAD IP

FOREWORD

Thanks for choosing product of 380W Beam Spot Wash Moving Head Light Waterproof, it is our newest the latest independent research and development of a high-grade quality product.

With perfect combination of international advanced electronic control technology and excellent human chemical. It is in full compliance with the CE standard supports the international DMX512 signal control mode.

It is fitted with original 371W Osram lamp, with high brightness, strong light effect, clear gobo, fast and smooth pan&tilt running, precise positioning and uniform pure color.

It has a super high and super long distance range, fitted with 8 rotating gobos, also has 15pcs gobos (11 gobos+4 open), a frost lens, 14 colors with white color wheel, with 3 kinds of prism effect comes from 2pcs prism combination.

The fixture are widely used in outdoor events, bridge, theme park, architecture, and other outdoor events and projects.

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1. SAFETY TIPS

Please read the guide book that contains the installation, use and maintenance of important information

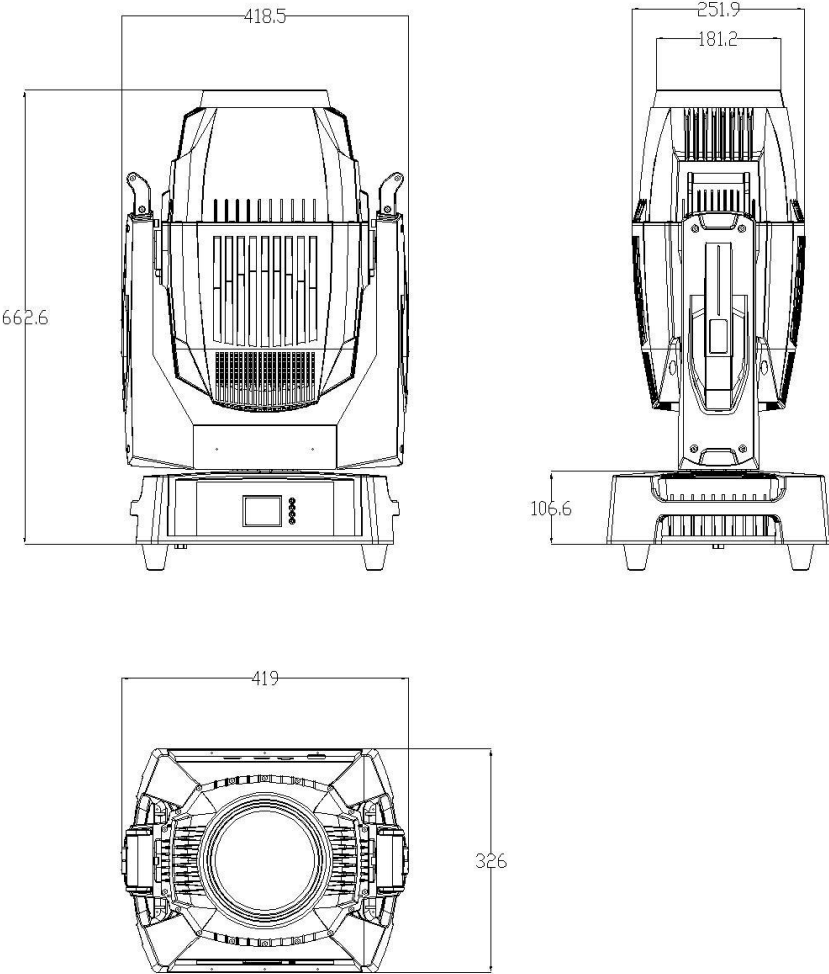
- ◇ Before using this product, please observe carefully the product is not unwrap or damaged during transportation. As a result of damage during transportation, please do not use the lights, and contact with the dealer or manufacturer.
- ◇ Before running products, ensure that the voltage and Hertz in accordance with the requirements of lights.
- ◇ It's very important, connecting ground wire to avoid the electric shock.
- ◇ This product must be installed on the sufficient space, adjacent to interface the shortest distance of 100 cm, to ensure that the lights will not crash each other.
- ◇ Before moving or repairing the product, please unplug the power.
- ◇ When it working, ensure that no inflammable and explosive near objects.
- ◇ When installing this product, please use the safety rope. When handling this product, lift the armrest base, rather than the lamp body.
- ◇ This product is suitable for a maximum temperature of 45 degrees Celsius, when the surrounding environment is higher than 45°C, please do not use this product.
- ◇ Do not touch when the product is running, to prevent bruising hands.
- ◇ Problems happens when operating performances, should immediately stop using the lights. Do not carry out maintenance, repair damage caused or likely to cause other problems. Please contact the company's maintenance repair. During the repair process, use the same type of accessories.
- ◇ Please read the instructions carefully, especially regarding the installation, using, maintenance parts. Important that the lighting in the transport process, must be packed anti-shock protection carton or flight case.

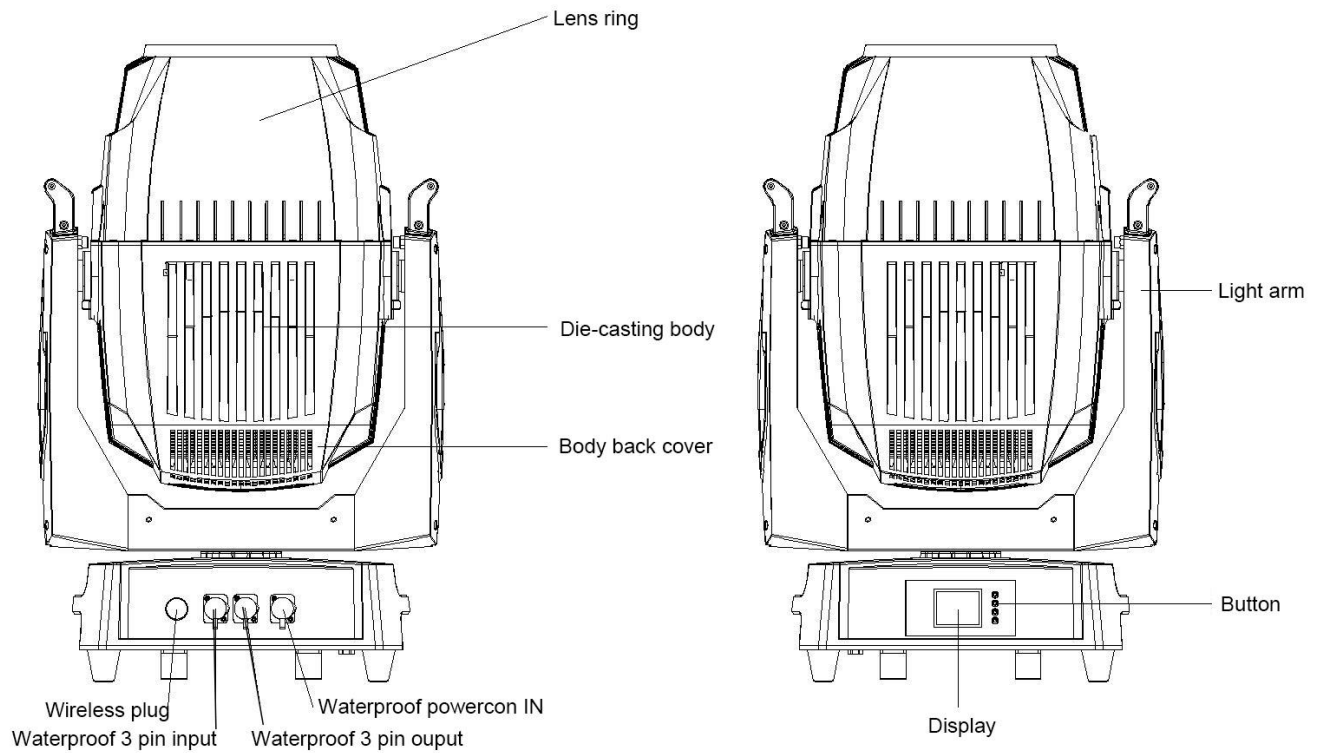
2. TECHNICAL PARAMETERS

- ◇DMX Channel: 24CHs
- ◇Control model: DMX512, RDM
- ◇LED LCD Display+ Press button, English/Chinese
- ◇Light Source: Osram 371W Lamp
- ◇XY axis super fast and ultra silence 3-phase step motors
- ◇Color temperature is 8000K, life span is 1500Hs
- ◇14 Color with white, semi color effect
- ◇11 fixed gobo with 4 open
- ◇Prism: 8+16 prism, can combine dynamic rotating effect
- ◇Optical lens: Advanced optical system
- ◇Frost effect: Adjustable Soft Spot Angle
- ◇Focus: linear focus
- ◇Dimmer: 0-100% linear dimmer
- ◇Beam Angle: 2-40°
- ◇Strobe: 2-blade strobe (0.5-9FPS)
- ◇15pcs super silence motors, 2pcs pan&tilt 3-phase step motors, 16bit.
- ◇Housing: High temperature resistant, UV resistant and antioxidant alloy plastics+ National standard die casting
- ◇Frost Angle: 18°
- ◇Power Consumption:500W
- ◇IP Rate: IP65
- ◇Weight: 31.7KG
- ◇Size: 419*326 *662.6mm

Extended functions: support RDM, wireless signals is optional.

3. SCHEMATIC LIGHTING COMPONENTS





4. PACKING AND SHIPPING

4.1 Packing

380W Beam Moving Head IP65 is packaged by carton or standard 1in1 flight case, accessories items are as below

Name	Quantity	unit
User manual	1	piece
Signal line	1	piece
safe rope	1	piece
Bracket and Clamp	2	piece
Power line	1	piece

4.2 Packing

1. Disconnect the power supply so that the lamp to cool completely before packaging, at least 15 minutes or more.
2. Close the light protect lock after cleaning the surface of the light dust
3. Cover the light, seize the equipment both sides aluminum handles on to make it upside down and gently placed in the box.
4. Add lighting accessories after placing the light in box.
5. Up to two crates stacked prohibited upside down.

4.3 Unpacking

1. Open the box and bag
2. Seizing the equipment handles, lifting and carrying away the light from the box .Or opening the flight case, placing lift boom close to the light base, then equipping clamps on light base bottom. Tightening quick install locks. At last rising away boom to the top of the lamp from flight case, put the flight case away.
3. Before turning on the light, should open the light protecting lock.

Note: Upon receipt of lamps, please check if there is damage to the fold closure caused by transport, where there is transportation damage, please do not use this fixture, and as soon as possible contact.

5. SAFETY STANDARDS

Users should ensure that light and installation materials are checked for regular safety check. Please do not install it yourself if you do not have the professional work condition and similar experience. Please ask the professionals to operate it. Incorrect installation will cause danger.

The working temperature for the equipment is available between -20° and 45°. Do not use the equipment outside of this environment. Don't stand under the light when the light is installed, dismantled, moved or serviced. The operator must ensure that the fixtures are securely connected. Installing the light after professionals approving electrical parameters make sure that these installation must be checked at least once per year by experts

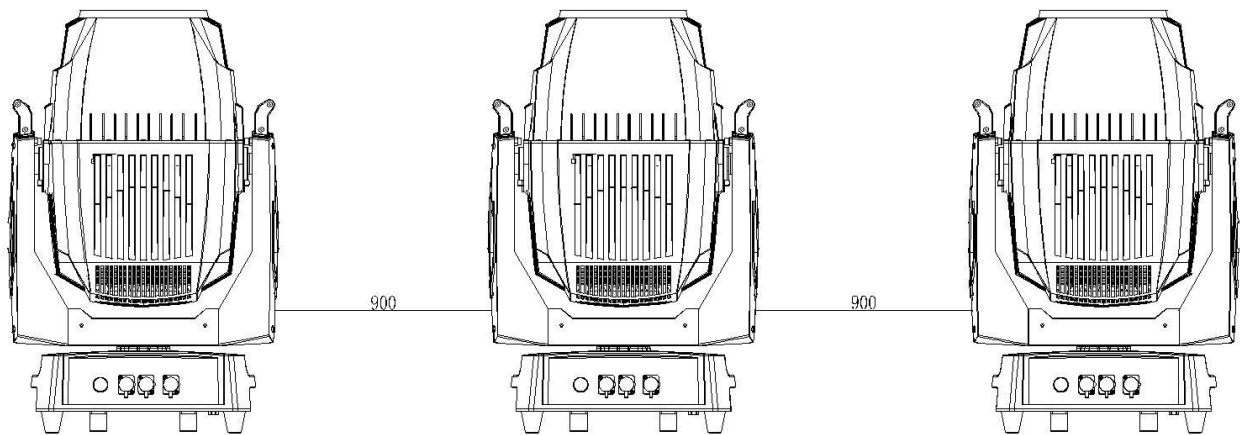
5.1 Hook Installation

480 beam light can be placed on the stage or on a stand in any direction, quick lock system can quickly and easily remove or install a light hook.

Note: Two fixtures must be used to fix the equipment, and each hook is fixed with four M8 stainless steel socket screws.

5.2 Fixing Equipment

1. Please confirm the rigging equipment is not damaged and can bear at least 10 times of light's weight before installing. Also check the building can be bore at least 10 times of total weights of light, fixture, and cable accessories.
2. Fix the lamp hook on the bottom box with the M8 stainless steel socket screw with the inner hexagon tool. Install the second lamp hook in the same way. Make sure the lamp hook is tightened on the bottom box.
3. If truss can be lifted the equipment can be directly clamped from flight case and locked fixture base. Then hung on the light and fixed it. Before rising the light to right height, connect the power line and signal line.



Note: Lights be placed vertically upward, the shortest distance between working lights must be more than or equal 900mm, lighting installation layout as following.

5.3 Data cable

Data cable is DMX512 signal

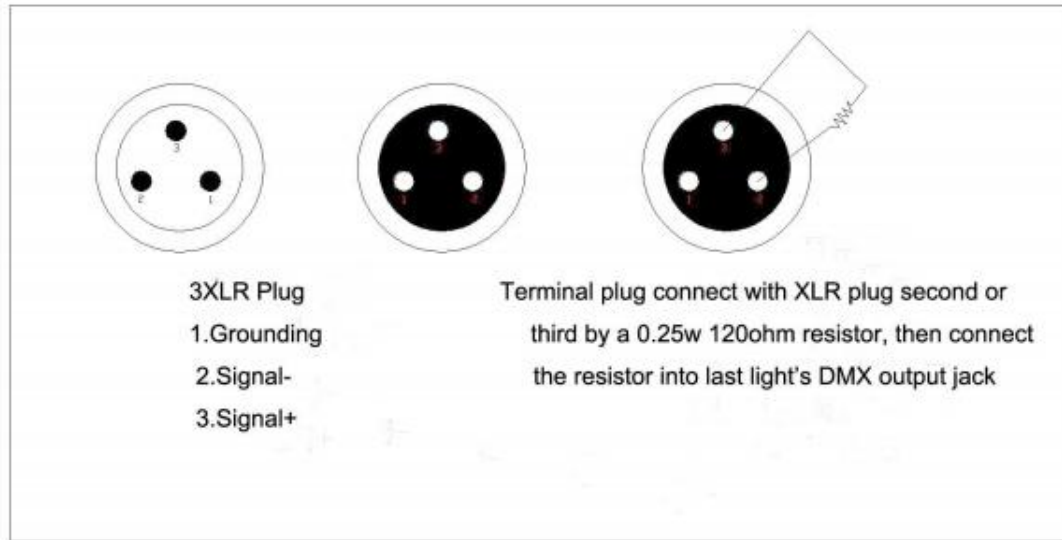
Caution: Signal line connections is X-type connector

X-type connector----- If the external flexible cable or cord of this light is damaged, please replace the professional cable or cord from the manufacture or its agent.

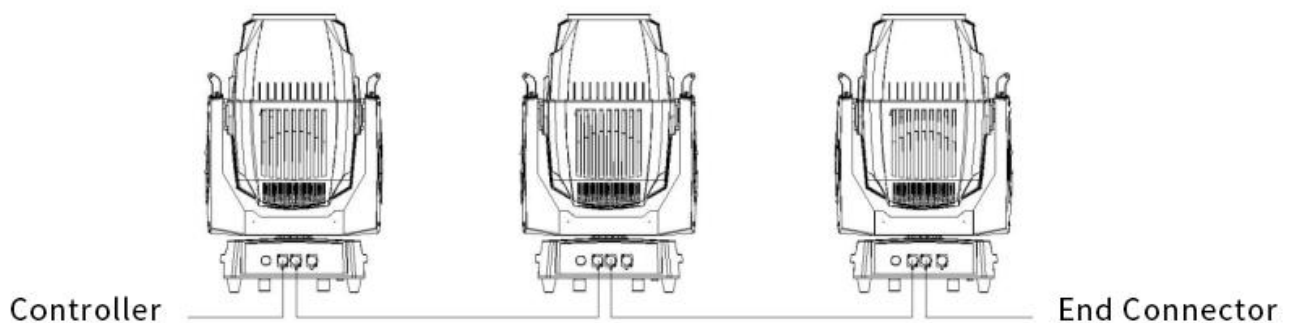
DMX of lights input and output connects to a 3&5-pin XLR, first pin is grounded, second negative signal is second pin, third pin connects to the positive polarity signal, the fourth and fifth is empty.

In order to prevent reception reflection and interference control signal, a terminal plug must be installed on the first branch of the connected device last 3-pin output

jack



The controller connects to the nearest input XLR 3-pin, then from the output of the device connects to the input of the next device, continuous connection one by one, the final output data cable terminal equipment plug one end into the terminal.



If the signal transmission is long-distance, 512 signal amplifier must be added. DMX512 signal controller connect to the input of the amplifier first, then connect to the fixture from its output, couple with the terminal plug last.

Note:

1. Do not use two separate output connections. To connect the branch, a separating consecutive DMX512 signal amplifier must be used.
2. Please use the specialized DMX512 shielded twisted-pair cable. Standard microphone cables can not be reliably controlled long-distance data.

6. AC POWER

6.1 Fuse Size

Power	Fuse
100-240V	10A 5*20 main fuse

6.2 Power Connection

If the external flexible cable or cord of this light is damaged, the line is up to the manufacturer or its service agent or a similar qualified person to replace, in order to avoid danger.

Connect the power supply personnel must have the appropriate qualifications before proceeding, you must make sure you are using the power supply voltage matches the voltage identified and have overload or leakage protection. Directly connect the device to the power supply, do not connect to the silicon box dimming system, otherwise damage to the equipment.

7. Lamp

7.1 Light Source Description

380W beam spot wash moving head IP is fitted with 371W Osram, single-ended and is short arc point light source, and its color temperature is 7500K and very stable, CRI > 85. Life span is over 1500 hours (according the using situation)

Note:

1. Please do not install other similar light bulbs, otherwise it will cause safety hazards or damage the equipment.
2. To reduce the risk of damage to luminaire, replace the lamp before it exceeds the life of the lamp.
3. It is forbidden to use scratched and damaged LED light source

7.2 Lamp Replacement

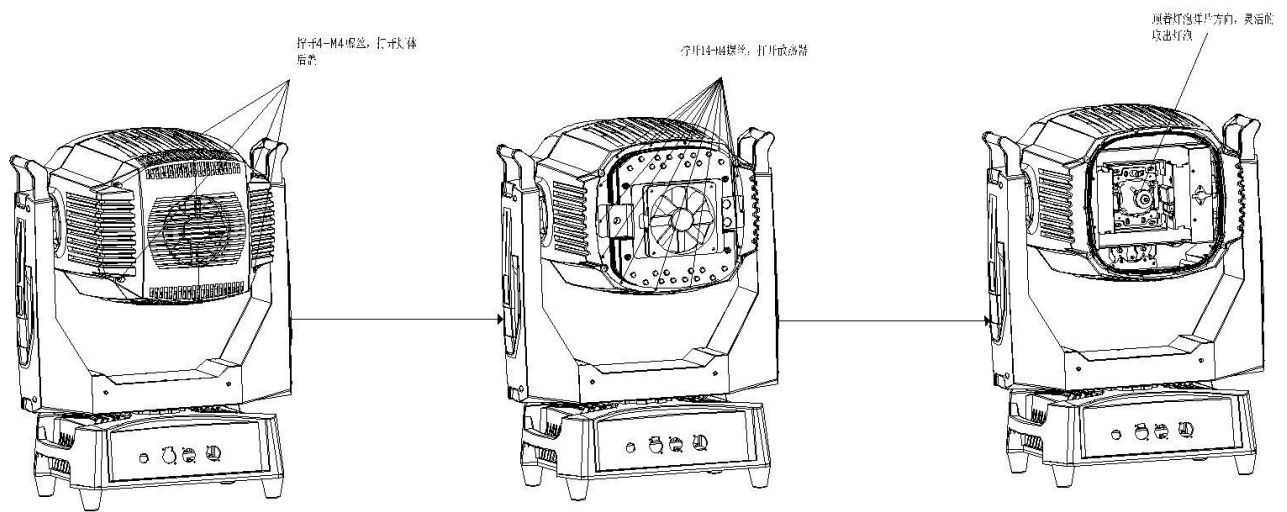
1. Disconnect the power, so that the lamp cooling, the arm of the lamp body lock locked in a horizontal position.

Split bulbs: Remove the four screws from the back cover of the lamp body, remove the 14 screws fixed by the radiator, and place the waterproof sealing ring carefully.

With the appropriate force to push down the bulb when the lamp cup beyond the edge of the stainless steel shrapnel, taking up the lamp.

Install the bulb is the opposite of the operation.

(Note: the waterproof sealing ring must be installed according to the orientation, and ensure that every screw is tightened. Can determine the waterproof performance of lamps and lanterns)



NOTE:

Avoiding oil stained hands.

To prevent damage, make sure you handle the lamp with care when installing and dismantelling. Do not let the bulb hit hard objects around it as it will cause damage.

7.3 Correction

Lamp has been corrected before selling. In the rare case the lamp may need correction, follow these steps:

The light is reseted by turning on the power, using the menu or console light bulb to play the sharp beam.

Using cross screwdriver to open the light body one bonnet side which is printed “this cover to replace the lamp”

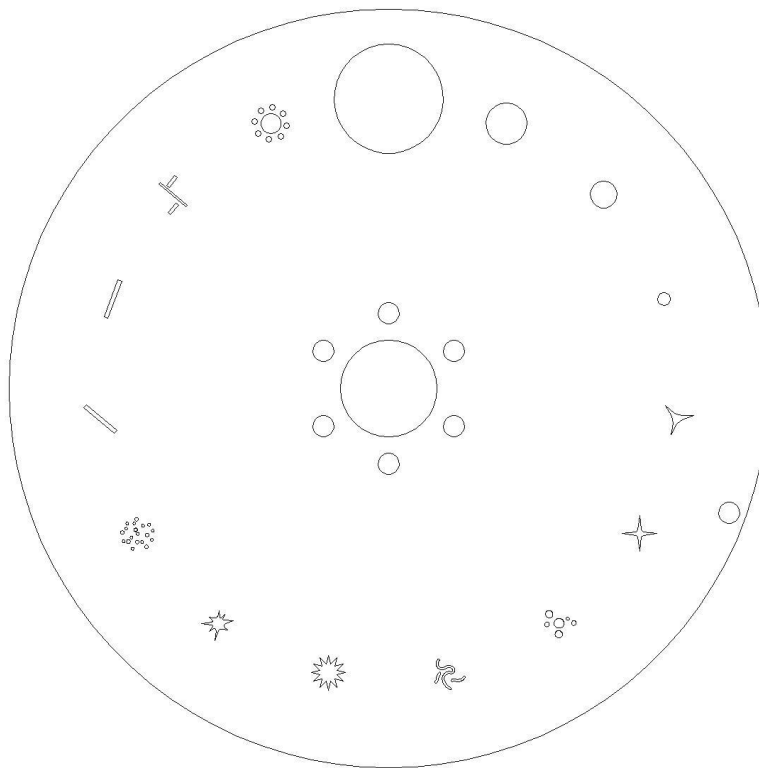
Using a flat head screwdriver to adjust the lamp bracket adjustment screw, turn the screw clockwise or counter clockwise, and the lamp can be right or left to adjust.

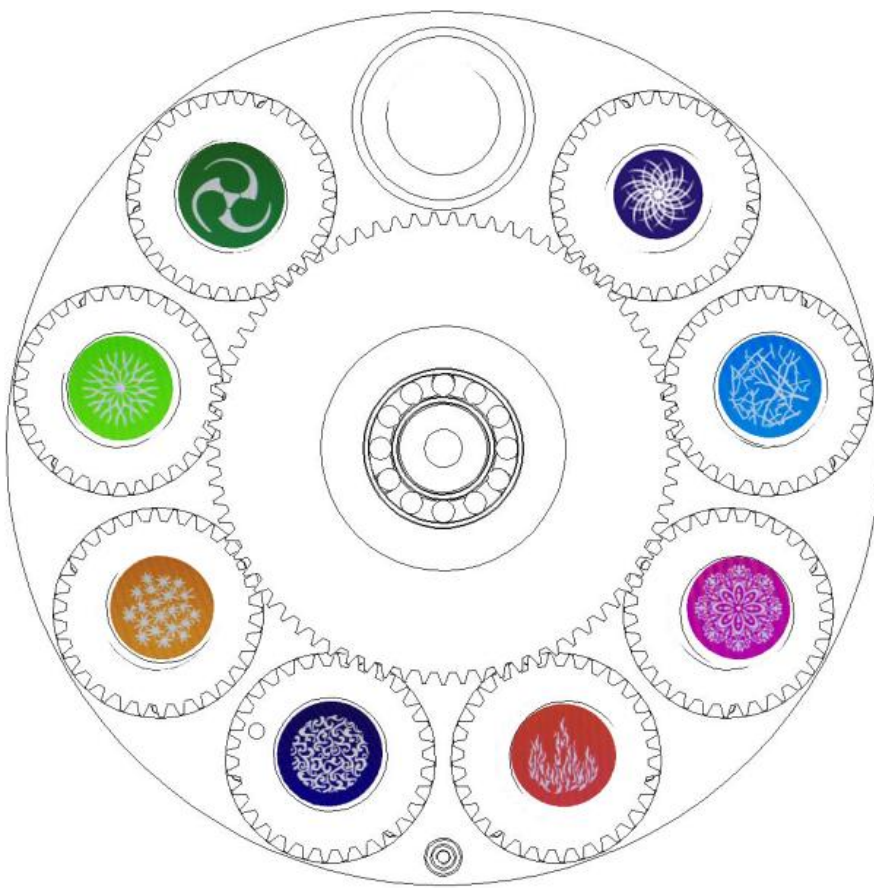
8. FUNCTIONS

8.1 Gobo Wheel

A metal gobo wheel consisting of 11 fixed gobo + 4 open, customers can change their own custom simple pattern pieces as needed.

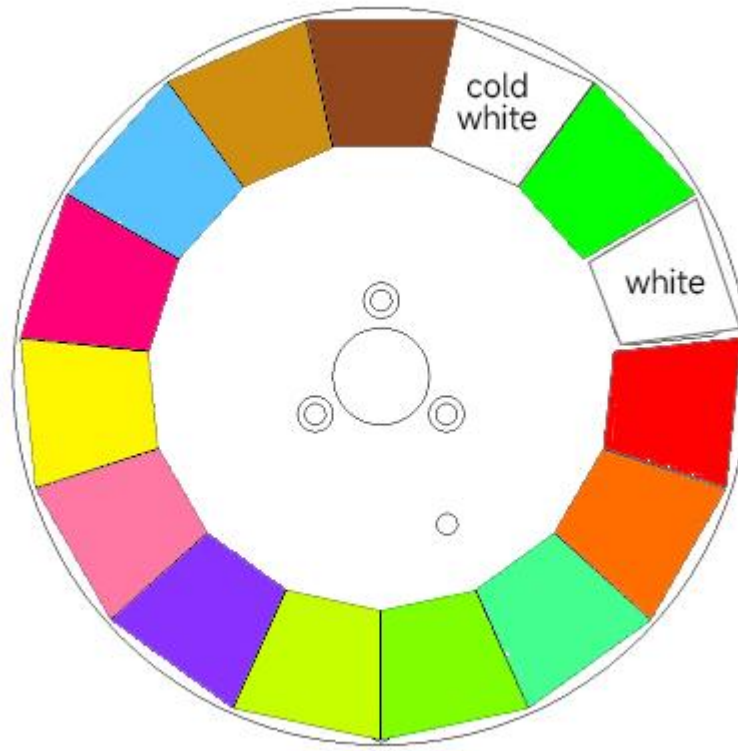
A glass rotating gobo wheel with 8 gobos, which could be customized.





8.2 Color Wheel

The color wheel is composed of 14 high-standard fixed colors. Users can easily choose the color they like and create a perfect lighting effect. At the same time, it can be used with the gobo wheel. The effect is better, and the colorful pattern can be changed at will effect. (You can change your own custom color wheel at any time according to customer needs)



8.3 Optical lens focusing

Synchronous work with two high-precision screw motors is used to adjust the optical lens to complete the pattern definition.

8.4 Prism Wheel

The prism wheel is equipped with a 8-facet prism and a 16-facet prism. It can be rotated clockwise and counterclockwise. The speed is adjustable. With the color and gobo, various brilliant lighting effects can be created. The prism wheel passes two high precision and ultra fast. The eight-head screw motor adjusts the size of the prism spot to create a dynamic effect of the amazing prism.

8.5 Dimmer & Strobe

0-100% mechanical dimming, instant switching, stroboscopic speed can be adjusted freely, up to 12 times / sec, with special function of random strobe.

8.6 Frost

The frost consists of an frost piece, which is done according to the actual control to achieve the soft light effect you want.

8.7 Pan & Tilt

Pan scanning 540°, Tilt scanning 270°, with 16BIT precise positioning function.
Pan & Tilt speed can be adjusted.

9. DISPLAY SETUP

9.1 LCD Display Introduction



9.2 Menu Operation:

Press:		
ENTER、UP、DOWN、ESC		
一、Main Menu:		
1、DMX Address: 01-512		
2、Channel Mode: 24		
3、Reset Operation	1、Motor off	Yes/No
	2、Pan/Tilt	

	3、Strobe		
	4、Color		
	5、Gobo		
	6、Light path		
4、Run (DMX)	1、DMX		
	2、Auto		
	3、User		
5、Lamp	Current open		
	Current off		
6、Manual control:	1、pan		0-255
	2、Tilt		0-255
	3、Pan/Tilt Speed		0-255
	4、Strobe		0-255
	5、Dimmer		0-255
	6、Color		0-255
	7、Static gobo		0-255
	8、Prism		0-255
	9、Prism 1 Rotate		0-255
	10、Prism2 Rotate		0-255
	11、Frost		0-255
	12、Glass gobo		0-255
	13、Glass gobo rotate		0-255
	14、Zoom		0-255
7、Operate Setting	Master-slave mode	Master/ Slave	
	Pan/Tilt Setting	1、Manual Scan	YES/NO
		2、Pan Reverse	YES/NO
		3、Tilt Reverse	YES/NO
	Self programming 	Step 01	
		Step02	
		Step03	
		Step04	
		Step05	
		Step06	
		Step07	

	4、No Signal Yes	Step08		
		Step09		
		Step10		
		Step11		
		Step12		
	5、Power on lamp on	Power on	In the middle	
			No effect	
			Auto mode	
		Running	USER	
			ON	
		Yes/NO	OFF	

8、Advanced Setting	1、Fine	1、Pan	—200～ 200
		2、Tilt	—200～ 200
		3、color	—200～ 200
		4、Static gobo	—200～ 200
		5 Dimer	—200～ 200
		6、Prism Arm 1	—200～ 200
		7、Prism Arm 2	—200～ 200
		8、Frost	—200～ 200
		9、Focus	—200～ 200
		10、 Rotating Gobo Wheel	—200～ 200
		11、 Rotating Gobo	—200～ 200
		12、Zoom	—200～ 200
	2、language	CN	EN
	3、Ignore Error	code disk waveform	Yes/no
	4、Standby hibernation	1、No signal standby	
		2、Off standby	
		3、Light closing threshold	

9、Safety Setting			
10 Info		DMX Value	
		Error	
		Lamp	
		Test mode	
		Product code	
Chanel Mode	DMX	Description	
24	Value		
1	0-255	Pan	
2	0-255	Pan Fine	
3	0-255	Tilt	
4	0-255	Tilt Fine	
5	0-255	Pan/Tilt Speed	
6		Reset	
	0-129	empty	
	130-139	Lamp on	
	140-149	X/Y reset	
	150-159	color wheel reset	
	160-169	gobo wheel reset	
	170-179	Shutter reset	
	180-189	zoom/focus/prism reset	
	200-209	whole machine reset	
	230-239	lamp off	
	240-255	empty	
7		color wheel	
	0-4	White light	
	5-8	white+red	
	9-12	red	
	13-17	red+orange	
	18-21	orange	
	22-25	orange+blue green	
	26-29	blue green	
	30-34	blue green+green	
	35-38	green	
	39-42	green+yellow green	
	43-46	Yellow green	
	47-51	Yellow green+Light blue purple	
	52-55	Light blue purple	
	56-59	Light blue purple+pink	
	60-63	pink	
	64-68	pink+yellow	

	69-72	yellow
	73-76	yellow+rose re
	77-81	rose red
	82-85	rose re+blue green
	86-89	blue green
	90-93	blue green+brown yellow
	94-98	Brown yellow
	99-102	Brown yellow+brown
	103-106	brown
	107-110	brown+cold
	111-115	cold
	116-119	cold+fluorescence
	120-123	fluorescence
	124-127	fluorescence+white
	128-189	No
	190-221	Clockwise flow, from fast to slow
	222-223	Stop
	224-255	Anti-clockwise flow, from slow to fast
8		Color fine
	0-255	0%-100%
9	0-255	frost
10		Static gobo wheel
	0-9	gobo1
	10-15	gobo2
	16-21	gobo3
	22-27	gobo4
	28-33	gobo5
	34-39	gobo6
	40-45	gobo7
	46-51	gobo8
	52-57	gobo9
	58-63	gobo10
	64-69	gobo11
	70-75	gobo12
	76-81	gobo13
	82-87	gobo14
	88-95	gobo1、shake、from slow to fast
	96-103	gobo2、shake、from slow to fast
	104-111	gobo3、shake、from slow to fast
	112-119	gobo4、shake、from slow to fast
	120-127	gobo5、shake、from slow to

		fast
	128-135	gobo6、shake、from slow to fast
	136-143	gobo7、shake、from slow to fast
	144-151	gobo8、shake、from slow to fast
	152-159	gobo9、shake、from slow to fast
	160-167	gobo10、shake、from slow to fast
	168-175	gobo11、shake、from slow to fast
	176-183	gobo12、shake、from slow to fast
	184-191	gobo13、shake、from slow to fast
	192-200	gobo14、shake、from slow to fast
	201	No
	202-227	Gobo anti-clockwise flow、from fast to slow
	228-299	stop
	230-255	Gobo clockwise flow、from slow to fast
11		Rotating gobo wheel rotate
	1-4	White light
	5-12	gobo1
	13-20	gobo2
	21-28	gobo3
	29-36	gobo4
	37-44	gobo5
	45-52	gobo6
	53-60	gobo7
	61-76	gobo8
	77-89	gobo1、left and right up and down rotating、from slow to fast
	90-102	gobo2、left and right up and down rotating、from slow to fast
	103-115	gobo3、left and right up and down rotating、from slow to fast
	116-128	gobo4、left and right up and down rotating、from slow to fast
	129-141	gobo5、left and right up and down rotating、from slow to fast
	142-154	gobo6、left and right up and

		down rotating、from slow to fast
	155-167	gobo7、left and right up and down rotating、from slow to fast
	168-180	gobo8、left and right up and down rotating、from slow to fast
	181-201	No
	202-227	Gobo clockwise flow、from fast to slow
	228-229	stop
	230-255	Gobo anti-clockwise flow、from slow to fast
12		Glass gobo rotate
	0-127	Glass gobo rotate 0°-360°
	128-193	Glass gobo anti-clockwise rotate、from fast to slow
	194-255	Glass gobo clockwise rotate、from slow to fast
13	0-255	Glass gobo fine
14		prism
	0-19	White light
	20-75	prism1
	76-127	prism2
	128-188	prism1、prism2 Overlay
	189-255	White light
15		Prism 1 rotate
	1-127	Forward rotation、from fast to slow
	128-129	No
	130-255	reverse rotation、from slow to fast
16		Prism 2 rotate
	1-127	Forward rotation、from fast to slow
	128-129	No
	130-255	reverse rotation、from slow to fast
17	0-255	zoom
18	0-255	Zoom fine
19	0-255	focus

20	0-255	Focus fine
21		No
22		shutter
	0-31	off
	32-63	on
	64-95	shutter、from slow to fast
	96-127	on
	128-159	Fast on, slow, from slow to fast
	160-191	on
	192-223	randomshutter, from slow to fast
	224-255	on
23		Dimmer
	0-255	0%-100%
24	0-255	Dimmer fine

10. FAILURE ANALYSIS AND RESOLUTION

Listed below is a common approach in the operation of a few common problems.

◇Fault A: The lamp is not working, the bulb is not lit, the fan does not work.

Solving 1: Check the power supply or the fuse if is burned.

Solve 2: The main power connector on the voltage detector.

◇Fault B: connect control units, lighting does not respond

Solving 1: After connecting control units, the lights should be working. If it is not working properly, check the signal cable plugs and wires are connected correctly.

Solve 2: If the lamp is lit display, but the channel does not respond, check the address code is set correctly and DMX output voltage polarity.

Solve 3: DMX signal problems if your lighting is off,check the input terminal and the circuit board.

Solve 4: Please change another one DMX controller.

Solve 5: Check whether the signal cable near high voltage power lines caused DMX display board inside the wire damage.

◇Fault C: some channel is not working

Solving 1: Stepper motor may be damaged, or the line connecting the motherboard burned out.

Solve 2: IC driver board on the motherboard may be damaged

11. CLEANING

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Clean the fans on the head and base every 20 days.

Disconnect the fixture before clear.

12. PHOTOMETRICS DIAGRAM

