

# **BIO BEAM** Moving Head Light

User Manual

# FOREWORD

Thank you for choosing our 310W beam moving head light. This model is the latest high-quality beam light developed by our company. It is lighter and more convenient than the other similar competing production.

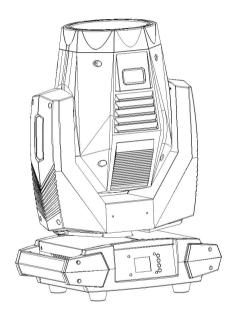
Beam 310 fully complies with the CE standard and supports the international DMX512 signal control mode, with perfect combination of international advanced electronic control technology and excellent humanized industrial design.

Beam 310 adopts 310w OSRAM bulb, the fixture features in strong light effect and clear gobo, fast and stable movement, accurate positioning, pure color and uniform light.

Beam 310 has super high altitude and super long range, and it is fitted with a static gobo wheel (9 gobos + 5 open), a color wheel with 14 colors, 2 prisms with 3 kinds of prism effects and frost effect.

This model is widely used in TV stations, stadium, disco, dance halls, night clubs, large-scale performance and other professional places.

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# 1. Safety Instructions

Please carefully read the instructions, this guide consists of important information about installation, using and maintenance.

Before using this product, please carefully observe the product is not unwrapped or damage during transport. In case of damage caused by transportation, please do not use this product and as soon as possible contact your dealer or manufacturer.

Before turning on the product, ensure that the voltage and hertz to meet the requirements of this product.

It is very important that connecting the ground wire to avoid electric shock.

This product is for dry indoor environments.

This product must be installed on the sufficient space, adjacent to interface the shortest distance of 50cm, to ensure that the lights will not crash each other.

Before moving or repairing the product, please keep the power off.

When it working, ensure that no inflammable and explosive near the product.

When installing this product, please use the safety rope. When handling this product, lift the armrest base, rather than the lamp body.

The product is suitable for a maximum temperature of 40 degrees Celsius.

When the surrounding environment is higher than 40 degrees Celsius, please do not use this product.

Do not touch. In operation, the product running very fast, to prevent bumps hands.

If there is a problem with the operation during the show, the lighting should be stopped immediately. Do not perform repairs, damage or repairs that may occur during maintenance. Please contact the company's after sale for repair. Use the same model of accessories during the repair process.

Please carefully read the instructions, this guide consists of important information about installation, using and maintenance. It is important that the product must have anti-vibration protection carton or flight case during transportation.

# 2. Technical Parameters

#### **Light Source**

Lamp: OSRAM SIRIUS HRI 310W Lumen: 15200lm Average Lifespan: 4000Hours

#### **Optical System**

Optical Lens: High precision glued optical lens Beam Angle: 2.3°

#### **Electrical and Interface**

Input voltage range: 100V-240V 50Hz/60Hz Rate: 400W Power In/Out: 3 Pin

#### Housing

High temperature resistant engineering plastic+plastic handle

#### **Control And Program**

4 Press Button Control Panel: LED LCD screen Control Mode: DMX512,RDM, Auto and user program DMX Channel: 1 kind Channel: 16 Channels

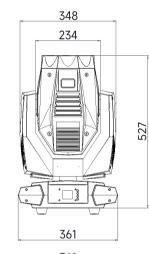
#### X Axis/Y Axis

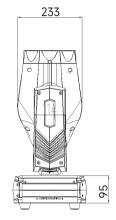
XY Motors: Super Silence, Ultra fast 3-phase step motors X Axis Movement Degree: 540° Y Axis Movement Degree:270° X axis /Y axis automatic correction position if out of step

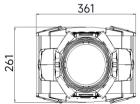
#### **Working Temperature**

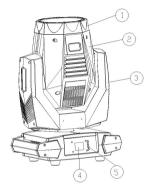
Maximum ambient temperature: 45°C Minimum ambient temperature: 0°C

# 3. Dimension











- 1. Lens front cover
- 2. Lamp body cover
- 3. Light arm
- 4. Display
- 5. Press button
- 6. 3-pin XLR DMX input
- 7. 3-pin XLR DMX output

- 8. Power In 9. Fuse
- 10. General ground line

# 4. Packing And Shipping

# 4.1 Packing

310 Beam light is packaged by carton or standard 2in1 flight case(selectable 1in1 or 4in1), accessories items are as below

Name	Quantity	Unit
User manual	1	piece
Signal line	1	piece
safe ropeHanging lamp	1	piece
hook and fastener	2	piece
Power line	1	piece

## 4.2 Transport protection locks

In order to transport it easy to protect the lamp body has two locks(XY axes each a lock), X-axis has four lock position, Y-axis triple lock, lock locked in the center position in the transport and light a vertical position with the arm member.

# 4.3 Packing

- 1. Disconnect the power supply so that the lamp to cool completely before packaging equipment, at least 15 minutes or more.
- 2. Closing the light protect lock, when clean 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.

# 5. Installation

# 4.4 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 cover, placing lift boom close to the light base, then equipping light hook 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 Standard Installation

Users should ensure that light and installation materials are checked for regular safety checks, unprofessional incorrect installation can lead to dangerous, if the lack of working conditions and professional standards, please operate the light by professionals. Do not use the light if the working temperature isn't 15°-40°. When the lighting installation, dismantling,moving, or servicing, do not stand directly beneath the lamp. The operator must ensure that the fixtures are secure connection, 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 Installing rigging

Rambo 310 beam moving head lights 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: must use two clamps fixed equipment, and are 1/4 buckle fastening jig, only fully rotated 90 degrees clockwise to lock fastener. accessories.

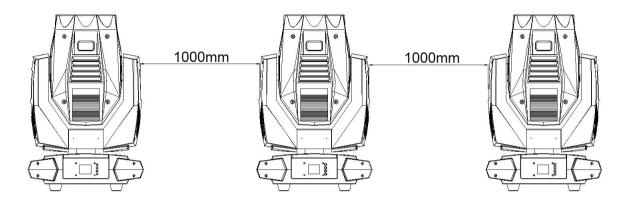
- 2. Insert the locked hook fastener into base mounting holes horizontally, grab the handle clockwise 90 degrees fasteners, in the same way to install a second fastener,make sure the fastener is fastened under the light base.
- If truss can be lifted, the equipment can be

<sup>5.</sup> directly clamped from flight case and locked fixture base. Then hung on the light and using safety rope fixed it. Before rising the light to right height, connect the power cord and signal cable.

## 5.2 Fixed equipment

1. Before installing fixtures, must verified rigging equipments are not damaged, and can bear at least 10 times of light's weight. Check the building can be beared at least 10 times of total weights of light, fixture, and cable Note: add a safety rope attached the light's base insurance shelf, do not connect the device handle.

Lights be placed vertically upward, the shortest distance between working lights must be more than or equal 1000mm, lighting installation layout as following.



## 5.3 Data cable

Data cable is DMX512 signal

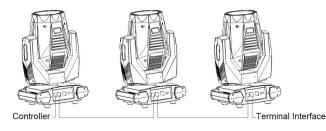
Note: Signal line connections is X-type connector

X-type connector-----If the external flexible cable or cord of this light is damaged, please replace professional cable or cord from the manufacture or its agent.Lights' DMX input and output connects to a three-pin XLR and five-pin XLR insert, first pin is grounded,then negative signal is second pin, third pin connects to the positive polarity signal, fourth and fifth are 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.



3XLR Plug 1. Grounding 2. Signal-3. Signal+ Terminal plug connect with XLR plug second orthird by a 0.25w 120ohm resistor, then connectthe resistor into last light's DMX output jack

Connect the controller 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.

1. Do not use two separate output connection, if connect the branch separating consecutive DMX512 signal amplifier must be used to separate.

2. Please use the shielded twisted-pair cable, standard microphone cable can not be reliably controlled long-distance data.

# 6. Ac Power / 7. LAMP

#### 6.1Fuse

Power	Fuse
100-240v~	8A 5*20main 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.

## 7.1 Lamp Description

Rambo 310 Beam Moving Head Beam light is fitted with Osram Single-ended lamp is short arc point light source, and its color temperature is 9000K and very stable, CRI > 90. Life span is over 4000 hours(according the using situation)

NOTE: Do not install other similar lamps, and will cause safety hazards or equipment damage. To reduce the risk of damage to the lamp, replacing the lamp before the lamp life over. Do not use scratches and has damaged bulb.

## 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.
- 2. Split bulbs:Remove the cover which is written "split this cover to replace the lamp head cover"
- 3. Use a Phillips screwdriver to remove the fan two thumbscrews fixed side.
- 4. 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.
- 5. Install the bulb is the opposite of the operation.

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NOTE: Install other similar lamps, and will cause safety hazards or equipment damaged.

Install and remove the bulb gently into the bulb, do not let the bulb touch its surrounding hard objects, to prevent damage to the bulb. Note that the light bulb is notched in the direction of the blower's blow outlet.

### 7.2 Lamp Replacement

(when leaving the factory, the bulb has been corrected. , If individual cases happened after the replacement of the bulb, you can follow this method)

1. Turn on the power to reset, use the menu or controller, light the bulb, and play a white light.

# 8. Function

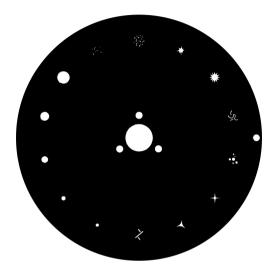
- 2. Use a screwdriver to open one side of the cover housing of the lamp body.
- 3. Use a flat-head screwdriver to adjust the screws on the light bulb fixing bracket. Turn the screws clockwise or counterclockwise, and adjust the light bulb to the right or left.

## 8.1 Gobo wheel

A metal gobo wheel is composed by 9 aluminum gobos + 5 white, which could also be custom made.

### 8.2 Color wheel

Color wheel is made by 13 high standard fixed color, the user can easily select their own favorite color, to create a perfect lighting effect. Use the gobo wheel at same time is better. It can be easily transformed a colorful gobo effect. (According to customer needs may change at any time own custom various color wheel).



## 8.3 Optical lens focusing

The two high precision screw motors are used to work together to adjust optical lens to complete the pattern definition.

## 8.4 prism wheel and the prism overlay

The prism wheel is equipped with a 8-facet prism and a honeycomb prism can clockwise and counterclockwise rotation, speed adjustable, with colors and patterns, it can create a variety of colorful lighting effects. The prism plate through two high precision super eight head screw motors to adjust cutting prism spot size and then react the dynamic effect of prism.

## 8.5 Dimming and strobe

0-100% mechanical dimmer, you can instantly switch freely adjustable strobe speed up to 12 times / sec, along with random strobe special features.

# 8.6 Frost

Frost is a piece of atomizing lens, according to the actual control to complete the frost effect as your want .

# 9. Display setting

# 8.7 horizontal and vertical scanning

Pan:540°, Tilt 270°, With 16BIT precise positioning capabilities. Horizontal and vertical speed is adjustable.

## 9.1 Display panel



310 BEAM MENU							
1. DMX Address: 1-512							
2. Channel:	16Channels						
3. Reset	Motor	ON/OFF					
	XY						
	Shutter						
	Color						
	Gobo						
	Light Road						
4.	DMX/AUTO/USER						
Operation							
5. Lamp	ON/OFF						

6. Manual	Х	0-255
Control	Y	0-255
	XY Speed	0-255
	Color	0-255
	Shutter	0-255
	Dimmer	0-255
	Gobo	0-255
	Prism 1	0-255
	Prism 2	0-255
	Prism Auto Rotate	0-255
	Frost	0-255
	Focus	0-255
	Rainbow Effect	0-255

	Prism Auto Rotate	0-255			
	Frost	0-255			
	Focus	0-255			
	Rainbow Effect	0-255			
7. Operation Setting	Master/Slave Mode	Master/ Slave			
	XY Setting	1. Manual Scanning	Yes/ No		
		2. X Direction	Yes/ No		
		3. Y Reverse	Yes/ No		
		4. Speed channel real-time	Yes/ No		
	No Signal	Power On			

		In	Кеер		Step 02	Time	0-255
		Running				Channel 1	0-255
	Lamp On	Yes/No				Channel 2	0-255
						Channel 3	0-255
7.	Step 01	Time	0-255			Channel 4	0-255
Operation		Channel 1	0-255			Channel 5	0-255
Setting			0-255			Channel 6	0-255
			0-255			Channel 7	0-255
		Channel 4	0-255			Channel 8	0-255
		Channel 5	0-255			Channel 9	0-255
		Channel 6	0-255			Channel 10	0-255
		Channel 7	0-255			Channel 11	0-255
		Channel 8	0-255			Channel 12	
		Channel 9	0-255			Channel 13	
		Channel 10	0-255			Channel 14	
		Channel 11	0-255			Channel 15	
		Channel 12	0-255			Channel 16	
		Channel 13	0-255		Step 03	Time	0-255
		Channel 14	0-255			Channel 1	0-255
		Channel 15	0-255			Channel 2	0-255
		Channel 16	0-255			Channel 3	0-255

Step	Channel 4	0-255			Channel 8	0-255
04	Channel 5	0-255			Channel 9	0-255
	Channel 6	0-255			Channel 10	0-255
	Channel 7	0-255			Channel 11	0-255
	Channel 8	0-255			Channel 12	0-255
	Channel 9	0-255			Channel 13	0-255
	Channel 10	0-255			Channel 14	0-255
	Channel 11	0-255			Channel 15	0-255
	Channel 12	0-255			Channel 16	0-255
	Channel 13	0-255		Step	Time	0-255
	Channel 14	0-255		05	Channel 1	0-255
	Channel 15	0-255			Channel 2	0-255
	Channel 16	0-255			Channel 3	0-255
	Time	0-255			Channel 4	0-255
	Channel 1	0-255			Channel 5	0-255
	Channel 2	0-255			Channel 6	0-255
	Channel 3	0-255			Channel 7	0-255
	Channel 4	0-255			Channel 8	0-255
	Channel 5	0-255			Channel 9	0-255
	Channel 6	0-255			Channel 10	0-255
	Channel 7	0-255			Channel 11	0-255

16	
10	0-255
	0-255
1	0-255
2	0-255
3	0-255
4	0-255
5	0-255
6	0-255
7	0-255
8	0-255
9	0-255
10	0-255
11	0-255
12	0-255
13	0-255
14	0-255
15	0-255
16	0-255
	0-255
1	0-255
	0-255
	1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   1   1   1   2

Г		1	· · · · · ·	 -	ï	1	r
		Channel 3	0-255			Channel 7	0-255
		Channel 4	0-255			Channel 8	0-255
		Channel 5	0-255			Channel 9	0-255
		Channel 6	0-255			Channel 10	0-255
		Channel 7	0-255			Channel 11	0-255
		Channel 8	0-255			Channel 12	0-255
		Channel 9	0-255			Channel 13	0-255
		Channel 10	0-255			Channel 14	0-255
		Channel 11	0-255			Channel 15	0-255
		Channel 12	0-255			Channel 16	0-255
		Channel 13	0-255		Step	Time	0-255
		Channel 14	0-255		10	Channel 1	0-255
		Channel 15	0-255			Channel 2	0-255
		Channel 16	0-255			Channel 3	0-255
	Step	Time	0-255			Channel 4	0-255
	09	Channel 1	0-255			Channel 5	0-255
		Channel 2	0-255			Channel 6	0-255
		Channel 3	0-255			Channel 7	0-255
		Channel 4	0-255			Channel 8	0-255
		Channel 5	0-255			Channel 9	0-255
		Channel 6	0-255			Channel 10	0-255

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		Channel 11	0-255				Channel 15	0-255
		Channel 12	0-255				Channel 16	0-255
		Channel 13	0-255		S	tep 12	Time	0-255
		Channel 14	0-255				Channel 1	0-255
		Channel 15	0-255				Channel 2	0-255
		Channel 16	0-255				Channel 3	0-255
-	Step	Time	0-255				Channel 4	0-255
	11	Channel 1	0-255				Channel 5	0-255
		Channel 2	0-255				Channel 6	0-255
		Channel 3	0-255				Channel 7	0-255
		Channel 4	0-255				Channel 8	0-255
		Channel 5	0-255				Channel 9	0-255
		Channel 6	0-255				Channel 10	0-255
		Channel 7	0-255				Channel 11	0-255
		Channel 8	0-255				Channel 12	0-255
		Channel 9	0-255				Channel 13	0-255
		Channel 10	0-255				Channel 14	0-255
		Channel 11	0-255				Channel 15	0-255
		Channel 12	0-255				Channel 16	0-255
		Channel 13	0-255		2. Recor	d DMX	Choose Step	0-12
							Time	0-255
		Step 11	Channel 13 Channel 14 Channel 15 Channel 16 Step Time 11 Channel 1 Channel 2 Channel 3 Channel 4 Channel 5 Channel 5 Channel 6 Channel 7 Channel 8 Channel 9 Channel 10 Channel 12	Channel 12   0-255     Channel 13   0-255     Channel 14   0-255     Channel 15   0-255     Channel 16   0-255     Channel 1   0-255     Step   Time   0-255     11   Channel 1   0-255     Channel 2   0-255   Channel 2   0-255     Channel 3   0-255   Channel 4   0-255     Channel 4   0-255   Channel 5   0-255     Channel 5   0-255   Channel 6   0-255     Channel 7   0-255   Channel 7   0-255     Channel 7   0-255   Channel 9   0-255     Channel 9   0-255   Channel 10   0-255     Channel 10   0-255   Channel 11   0-255     Channel 11   0-255   Channel 11   0-255     Channel 12   0-255   Channel 13   0-255	Channel 12 0-255   Channel 13 0-255   Channel 14 0-255   Channel 15 0-255   Channel 16 0-255   Channel 1 0-255   Step Time 0-255   State Channel 1 0-255   Channel 1 0-255 Channel 2 0-255   Channel 2 0-255 Channel 3 0-255   Channel 4 0-255 Channel 4 0-255   Channel 5 0-255 Channel 6 0-255   Channel 7 0-255 Channel 7 0-255   Channel 9 0-255 Channel 9 0-255   Channel 10 0-255 Channel 10 0-255   Channel 11 0-255 Channel 11 0-255   Channel 11 0-255 Channel 11 0-255   Channel 12 0-255 Channel 11 0-255	Channel 12 0-255   Channel 13 0-255   Channel 14 0-255   Channel 15 0-255   Channel 16 0-255   Channel 17 0-255   Step Time   11 Channel 1   0-255 Channel 1   0-255 Channel 2   0-255 Channel 3   0-255 Channel 4   0-255 Channel 4   0-255 Channel 6   0-255 Channel 7   0-255 Channel 7   0-255 Channel 8   0-255 Channel 9   0-255 Channel 10   0-255 Channel 11   0-255 Channel 12   0-255 Channel 13   0-255 Channel 11   0-255 Channel 13   0-255 Channel 13   0-255 Channel 13   0-255 Channel 13   0-255 Channel 13	Channel 12 0-255   Channel 13 0-255   Channel 14 0-255   Channel 15 0-255   Channel 16 0-255   Channel 1 0-255   Step Time   11 Channel 1   0-255 Channel 2   0-255 Channel 3   0-255 Channel 4   0-255 Channel 5   0-255 Channel 6   0-255 Channel 7   0-255 Channel 10   0-255 Channel 11   0-255 Channel 12   0-255 Channel 13   0-255 Channel 13	Channel 12   0-255     Channel 13   0-255     Channel 14   0-255     Channel 15   0-255     Channel 16   0-255     Channel 1   0-255     Channel 2   0-255     Channel 3   0-255     Channel 4   0-255     Channel 5   0-255     Channel 6   0-255     Channel 7   0-255     Channel 8   0-255     Channel 9   0-255     Channel 10   0-255     Channel 11   0-255     Channel 11   0-255     Channel 12

			Record			Language	Chinese/	
		3. All	Cleaning				English	
8.	Fine		Х			lgnore	Code disk	Yes/No
Advanced		Ī	Y	-300-300		Errors	waveform	
Setting		[	Color	-300-300		Fine		
		[	Gobo	-300-300		Recovery		
		[	Dimmer	-300-300	9.	DMX Value		
			Prism 1	-300-300	Information	Mistake	Used Time	
		[	Prism 2	-300-300			Time Clear	
		ĺ	Focus	-300-300		Test Mode	Fan Test	
			Rainbow	-300-300			XY Speed	
			Effect					
			Prism Half-	-300-300				
			Step fine					
			Prism 1 Half-	-300-300				
			Step fine					
			Prism 2 Half-	-300-300				
			Step fine					
			Frost Half-	-300-300				
			Step fine					
	Display	y	Overturn	Yes/No				

\_

# 10. Channel

Mode/	DMX	
Channel		
Value	description	
16		
1		Color Wheel
	0-4	White
	5-9	White + Red
	10-13	Red
	14-18	Red + Deep Yellow
	19-22	Deep Yellow
	23-27	Deep Yellow + Green
	28-31	Green
	32-36	Green + Yellow Green
	37-40	Yellow Green
	41-45	Yellow Green + Blue
	46-49	Blue
	50-54	Blue + Rose Red
	55-58	Rose Red
	59-63	Rose Red+Light Blue

64-67	Light Blue	
68-72	Light Blue+Light Yellow	
73-76	Light Yellow	
77-76	Light Yellow + Purplish	
	Red	
82-85	Purplish Red	
86-90	Purplish Red + Brownish	
	Yellow	
91-94	Brownish Yellow	
95-99	Brownish Yellow + Brown	
100-103	Brown	
104-108	Brown + Cold White	
109-112	Cold White	
113-117	Cold White+Deep Blue	
118-121	Deep Blue	
122-127	Deep Blue+White	
128-190	Counterclockwise rainbow	
	effect, from fast to slow	
191-192	rainbow effect stop	

	193-255	Clockwise rainbow
	193-233	
		effect, from slow to fast
2		Shutter
	0-3	Close
	4-103	Shutter from slow to fast
	104-107	open
	108-157	Fast open slow
		close, from slow to fast
	158-207	Fast close slow open,
		from fast to slow
	208-212	open
	213-251	Random shutter, from
		slow to fast
	252-255	Open
3		Dimmer
	0-255	0-100% Dimmer
4		Gobo
	0-3	white

4-9	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
76-87	Gobo13
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
192-201	Empty
202-227	Gobo Flow clockwise,
	from fast to slow

	228-229	Stop
	230-255	Gobo Flow
		Counterclockwise, from
		fast to slow
5	1-255	Rainbow effect
6		Prism
	0-63	No Prism
	64-127	Prism 1
	128-191	Prism 2
	192-255	Prism 1 + Prism 2
7		Prism macro effect
	0-15	Nothing
	16-55	Prism 2 shake from slow
		to fast, prism 1 disappear
	56-95	Prism 1 shake from slow
		to fast,prism 2 disappear
	96-135	Prism 2 shake from slow
		to fast,prism 1 activate

	136-175	Prism 1 shake from slow
	120-172	
		to fast,prism 2 activate
	176-215	Prism 1 + Prism 2 shake
		together, from slow to fast
	216-255	Prism 1 and prism 2
		shake interactively from
		slow to fast, overlapping
8		Prism 1 and Prism 2
		Positioning and Rotating
	0-127	Prism 1 Positioning and
		Rotating
	128-190	Prism 1 rotates in
		reverse, from fast to
		slow
	191-192	Prism 1 stop rotating
	193-255	Prism 1 rotates forward,
		from slow to fast
9		Frost

	0-1	No Frost
	1-255	Frost
10		Focus
	0-255	Focus from far to near
11		Pan
	0-255	Pan Rotate
12		Pan Fine
	0-255	Pan Fine
13		Tilt
	0-255	Tilt Rotate
14		Tilt Fine
	0-255	Tilt Fine
15		Pan/Tilt Speed
	0	Max Speed
		Speed Mode

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# 11. Solutions

	1-255	Speed from fast to slow
		Time Mode
	1-255	Time from 0.1 second o
		25.5 second
16		Function
	To achieve t	the following effect, push
	the DMX va	lue to the appropriate
	position and keep for at least 4	
	seconds	
	0-99	Empty
	100-109	Pan/Tilt reset
	110-119	Function Reset
	120-129	All Reset
	130-159	Empty
	160-191	Lamp Off
	192-229	Empty
	224-255	Lamp On

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

1. 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 is burned.

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

2. Fault B: connect control units, lighting does not respond

Solving 1: After connecting control units, lighting 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.

# 12. Clean Lights

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.

3.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.

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.

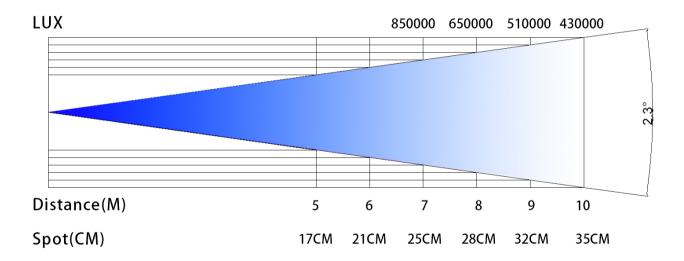
Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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

Disconnect the fixture before clear.

# 13. Illumination

# **310W BEAM ILLUMINATION**



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