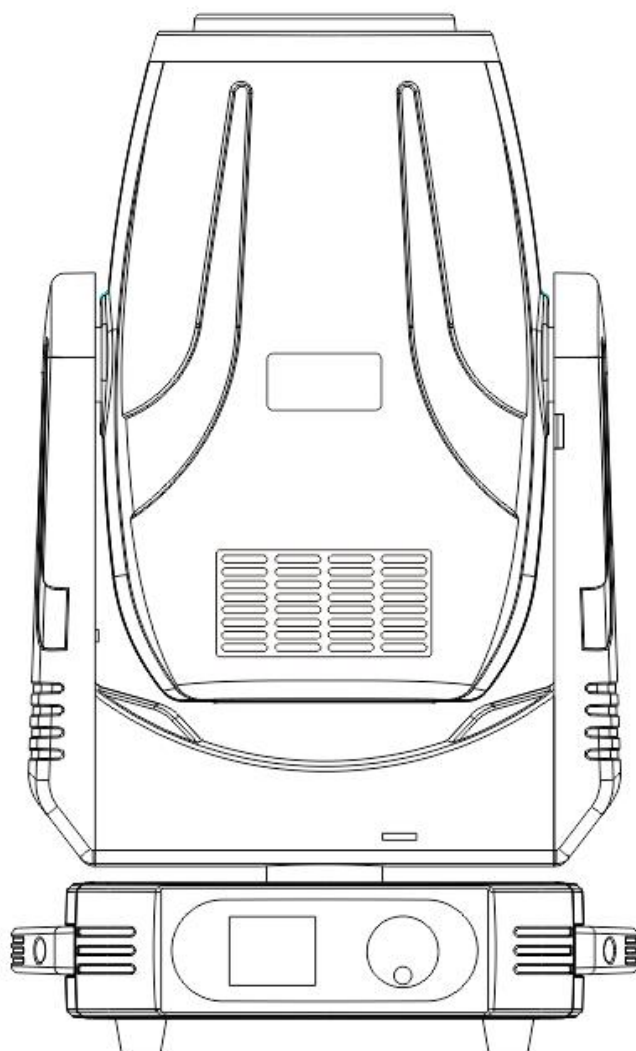


LED Moving Head Light



Net Weight: 19.1KG

Color Temperature: 5800 K

ITEM

Item.	02
1. Product introduce.	03
2. Fixture size.	03
3. Parts introduce.	04
4. Safety information.	05
5. Packing and shipping.	07
6. Installation standard.	07
7. AC power.	08
8. . LED lamp model and replace.	09
9. Control Panel.	09
10. Control panel menu operation	10
11. DMX Channels.	10
12. Routine maintenance.	14
13. Simple troubleshooting.	14

STATEMENT

The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

1、 PRODUCTION INTRODUCE

Thank you for choose this HOT BEAM280 products, this model is the moving head light which is

the latest development of the smart, efficient products, beautiful shape, smooth R & D, combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design , fully comply with CE standard, accepted international standard DMX512 signal mode.

Production enforce standard IEC 60598-1:2014, IEC60598-2-17:2017

Channels mode: 16/24 CH;

light source:LED170;

power: 110-240V,50/60Hz;

Total power: 300W;

Display: 2.8inch screen display,can reverse:180° ;

Color wheel: 9 colors+white; ;

Rotation GOBO: 9 GOBO+white+effect;

Rotation GOBO: 9 GOBO+ white,changeable; Gobo size diameter: 15.9mm, image diameter:13mm;

Prism: 8facet prism+3facet prism;fixed frost function;

Beam angel:3.5~37° ;

Dimmer: 0—100% linear adjustment,supports electronic strobe and adjustable strobe effect, supports strobe macro function, lens group optical system, electric focusing, linear zoom.

The photoelectric reset system is used. After the error occurs, the reset can be automatically retrieved.

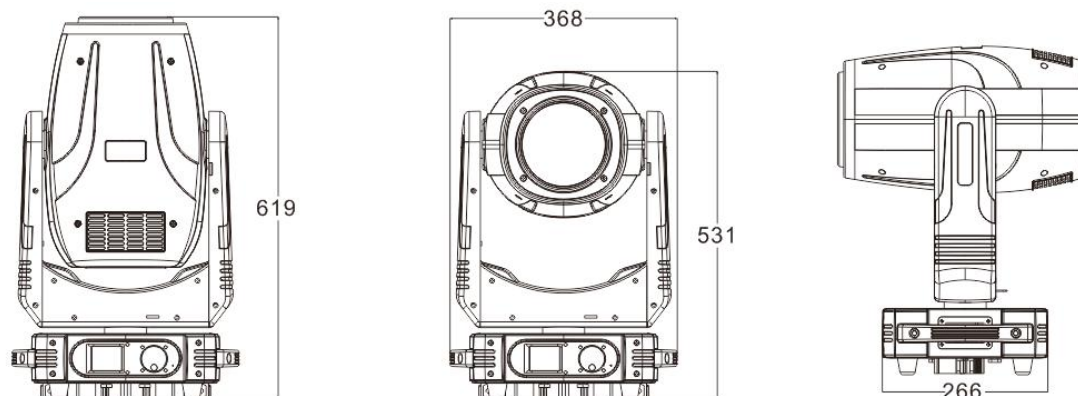
Positioning technology: The magnetoelectric positioning system uses magnetic devices instead of the traditional Hall positioning system, with higher accuracy and reliability.

USB:USB connector can set dmx address without power switch on and upgrade the software.

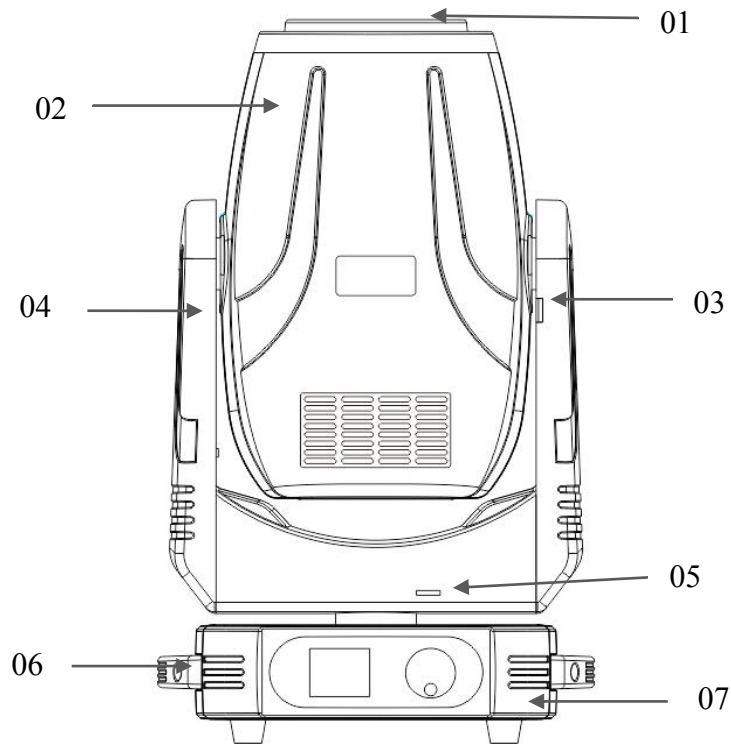
Pan: 540°,8/16Bit; Tilt: 270°,8/16Bit;

IP Rate: IP20;

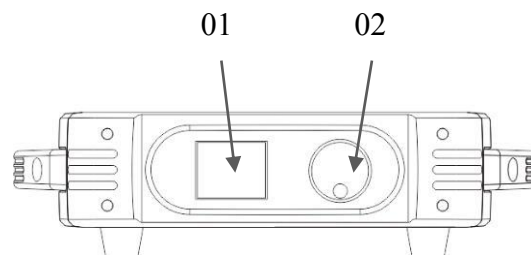
2、**FIXTURE SIZE** : 368mm (L) ×266mm (W) ×619mm (H)



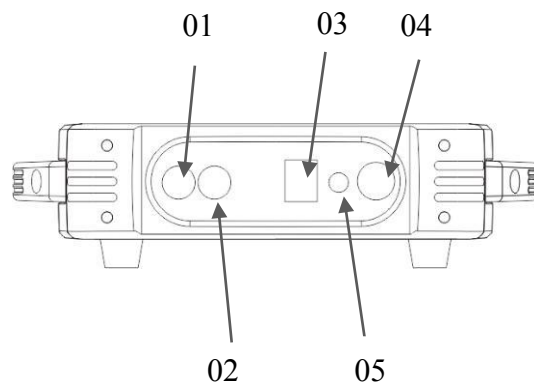
3. 3. PARTS INTRODUCE



- 01 — Lens
- 02 — Body
- 03 — Tilt Lock
- 04 — Arm
- 05 — Pan Lock
- 06 — Handle
- 07 — Light base



- 01-Display
- 02- Control wheel



- 01 — DMX IN
- 02 — DMX OUT
- 03 — Power switch
- 04 — Power in
- 05 — Fuse

4、 SAFETY INFORMATION

5、4.1.1 SAFETY WARNING MESSAGE



1、 This product is only suitable for professional use, and does not apply to security for other purposes. After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible.

2、 This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry to avoid Moisture, overheating or dusty environment. Prevent lamps come into contact with water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or Shedding caused serious or fatal injury.

4.1.2 NEED TO READ THE INSTRUCTIONS BEFORE USE ENERGIZED OR

INSTALLING



1、 Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment.

2、 If you have any problem for how to safely operate the equipment. Please contact your dealer.

4.1.3 OPERATION IS PROHIBITED



In automatic mode, do not manually force equipment or equipment.

4.1.4 POINTING IS PROHIBITED



Never point the lights directly to the sun or other strong light source.

4.2 TO PREVENT FALLING WOUNDING



1、 Please don' t move the package by one person only.

2、 When Hang the fixture, please must verify that the facilities to be able to withstand the weight of the lamps at least 10 times more.

3、 Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location.

4.3 UA PROTECTION AND THE BULB EXPLOSION



- 1、 Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;
- 2、 Do not use the equipment without the lens screen and the lid;
The lens and the light head covers should be timely replaced if any damage to rupture.
- 3、 The Fixture should be used with the protection screen together.

4.4.1 ANTI-HIGH TEMPERATURE (Rated maximum ambient temperature)

$$t_a = 40^{\circ}\text{C}$$

Please don't use the equipment if the temperature above 40°C.

4.4.2 ANTI-HIGH TEMPERATURE (Maximum outer surface temperature)



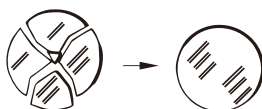
$$t_c = 90^{\circ}\text{C}$$

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 90°C.



4.5 IP PROTECTION

The product are certified at IP 20 levels only. Adequate additional protection should be taken for outdoor use. All lamps, lights and their fittings should be kept dry. Overheating dust and excessive humidity must be avoided.



4.6 BURST PREVENTION

The product are certified at IP 20 levels only. Adequate additional protection should be taken for outdoor use. All lamps, lights and their fittings should be kept dry. Overheating dust and excessive humidity must be avoided.



4.6 PREVENTION OF ELECTIC SHOCK

- 1、 The electrical connection must only be carried out with corresponding qualifications;
- 2、 Before installing, make sure you use the power voltage lamps must comply with the identified power, voltage and have an overload or leakage protection;
- 3、 Each lamp must be properly grounded, installed in accordance with the relevant standards;
- 4、 Cut off the power when stall or replace the lamp and the fuse;
- 5、 Prohibit the use of a lightning storm or wet environment.



4.7 MAINTENANCE

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply. After switching off, do not remove any parts of the fitting, to avoid getting burnt for at least 30 minutes. After this time the likelihood of the lamp exploding is virtually nil.

The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly damaged, they have to be replaced with genuine spares.



4.8 TO PREVENT BURNING OR FIRE

1. The fixture can be mounted directly on the surface of ordinary combustible material.
 2. Do not short-circuit temperature protection switch or fuse, use the specified type of fuse.
 3. The equipment must be installed away from inflammable and explosive materials.
 4. The equipment should be projected range of 10 meters away objects and projectiles temperature less than 60°C 12 m
 5. Fan or ventilation, at least in the range of 0.5 meters can not be an obstacle.
 6. Do not place any object on the lens.
 7. Handling at least allow the device to cool for 20 minutes.
 8. Do not replace the non-original parts.
- Packed with fly-case of 2 in 1 OR 1 in 1 and carton box.

5. PACKAGE

5.1 ATTACH FOLLOW ACCESSORY

ACCESSORY

CONTENT	QUANTITY
USER MANUL	1
Safety Steels(Selection)	1
Clamps(Selection)	2
SIGNAL CABLE	1
drawbridge	2

5.2 TRANSPORT PROTECT LOCK

In order to protect the light, there is a protect lock; During the transport, the lock catch position need lock in the center, and the fixture keep in vertical state.



5.3 ABOUT PACKING

1. Before packed, make sure power is off, and wait for at least 20 mins for cooling down.

2. Before clean the fixture, make sure X, Y axis protect lock closed.
3. After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.
4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
5. Fly-case only up stacked two layers. Prohibited upside down
6. When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

5.4 UNPACKING

Note: Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

1. Open the fly-case, and discover the inside plastic bag.
2. High-lift the product by two handles beside the bottom base and move it out.
3. Before power on, make sure you have opened the X, Y axis lock!

6、 INSTALLATION STANDARD

6.1 INSTALLATION OF THE RIGGING

The product can be placed on the stage or mounted on any supporting frame. The quick locking system can quickly and easily press 2 directions to lock on the bracket.

6.2 EQUIPMENT FIXATION

1. Before installation, it is necessary to verify that the gear clamp is not damaged and can bear at least 10 times the weight of the equipment. The verification building can bear the weight of at least 10 times the total weight of the equipment and fixture cable attached equipment.
2. The fixture is mounted on the base of the lamp body, inserts the fastener into the mounting hole of the base, and holds the handle of the fastener to lock the 1/4 ring clockwise, and the other fasteners are installed in the same way.
3. Install a safety rope that can withstand 10 times the weight of the equipment.
4. Check whether the vertical lock has been opened. There is no combustible or attached in the verification equipment within 3 meters. Near other flammable objects.

ATTENTION!



Must use two clamps fix the fixture, and tighten the clamps with 1/4 lock, only fully clockwise rotate 90 ° then can lock the fasteners. Add one safety insurance rope on the hole of light base. pls attention not connect to the transport handle.

6.3 DEVICE CONNECTION



Attention !

- 1、 One product only can accept one input one output.
- 2、 The input is a DMX. The output is by means of a 3 core socket as follows.
Pin 1: +ve polarity signal
Pin2; -ve polarity signal
Pin3: Grounded.
- 3、 DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data.24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add DMX 512 signal amplifier.
- 4、 Do not use two outputs to separate the connection, if separate a continuous connection to branch, DMX512 splitter is necessary.If use the DMX512 splitter. At first connect DMX512 Splitter input terminal to controller .And then connected from the splitter output terminal to next device.Do as above guide to connect other device, and finally coupled with terminal insertion.

7. 7、 AC POWER

7.1 VOLTAGE, POWER, FUSE SPECIFICATION

Input Voltage	Frequency	Total Power
110~240V	50/60Hz	300W

Fuse voltage	Electronic current	Specification
250V	8A	5×20

7.2 POWER PROTECT

The equipment must be operated by professionals; Make sure that the voltage of power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.



ATTENTION !

Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table.
If lamp cable is damaged, replacement should be operate by factory or qualified staff. Any question, please contact professionals or talk to a qualified electrician.

Live wire (L)	Null (N)	Ground wire	
BROWN	BLUE	Yellow +Green	

8、LED LAMP MODEL AND REPLACE

8.1 LED LAMP DESCRIPTION

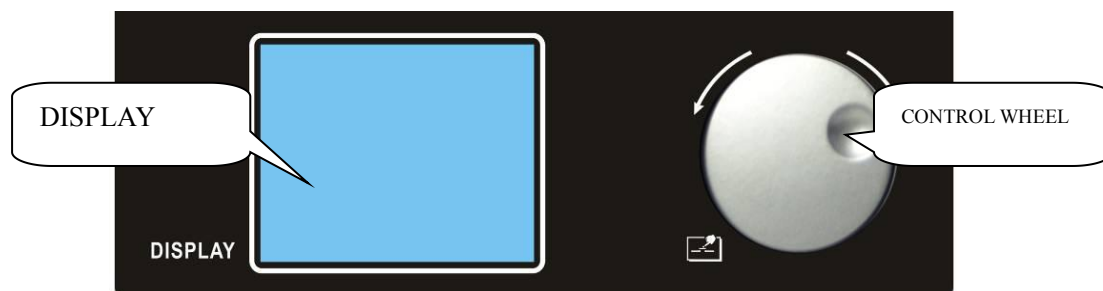
LED LAMP MODEL	POWER OF LAMP	LIFE/HOUR	COLOR TEMPERATURE
LED 170	170 W	20000 HOURS	5800K

8.2 LED LAMP REPLACE



The light source of this luminaire is a non user replacement light source. If it is broken, please replace it by the manufacturer or its agent service provider or a qualified person.

9、CONTROL PANEL



Display: to display all information of fixture.

Control wheel: can turn right, left and enter.

10、CONTROL PANEL MENU OPERATE

Main Menu	Submenu 1	Submenu2	Function SET	Function description
DMX ADDRESS	<<		1-512	To address 1
	<			Address +1
	>			Address-1
	<<			001-512

			SAVE	save and back
			ESC	ESC
FEATURES SETTING	Run Mode:		DMX	DMX
			Wire	not active
			Aoto	not active
	Channel Mode:		24CH	24CH model
			16CH	16CH model
	Pan Reverse:		Off	Pan Scan Normal
			On	Pan Scan Reverse
	Tilt Reverse:		Off	Tilt Scan Normal
			On	Tilt Scan Reverse
	Opto Check:		Off	Pan/Tilt optical sensor testing off
			On	Pan/Tilt optical sensor testing on
	PT Speed:		Noml	Pan/Tilt Scan Speed setting nomal
			Slow	Pan/Tilt Scan Speed setting slow
			Fast	Pan/Tilt Scan Speed setting fast
	Singl Clear:		Off	keep signal data
			On	clear signal data
	Full Colour:		Off	half color function
			On	full color function
	ShortCut:		Off	Shortcust off for colors and GOBOS
			On	Shortcust open for colors and GOBOS
			ADV.	(ADVANCED FUNCTION)
			RST.	Re-setting and back
			SAVE	Save and back
			ESC	Save and back
ADVANCED FUNCTION	Redress	ZEROSSETTING		
		Pan rotation	0-255	Adjust the begging state
		Tilt rotation		
		focus		
		zoom		
		Cyan+blue		
		Magenta		
		Yellow		
		Color temperature		
		Color wheel		

		Dimming		back
		aperture		
		Fixed GOBO		
		Prism Rota		
		GOBO Rota		
		Prism		
		Prism Rota		
		FROST		
		ESC		
	ChanlDef			No function
	FactSett			For factory only
	UseManage	Limit	LimitTime	No function
			limitCont	No function
DefConfig		YES	Return to default	
		NO	back	
FacConfig		SAVE	Save and back	
		EPRT	for factory only	
		ESC	back	
	ESC	back		
UNLOCK	Verify1:		0-255	need password
	Verify2:			
			KEY	need password
			ESC	back
MANUAL	LAMP REST		ALL MOTER	All step motor(do not adjust it)
			XY MOTER	Pan/Tilt step motor adjust(do not adjust it)
			PART MOTER	Other step motor(except Pan/Tilt)
			YES	The chosen step motor reset
			ESC	Back
	TEST RUN	AUTO		Auto
		SOUND		Sound
			ESC	Back
	SMULATE DMX	Pan:	0-255	Control Channel on display
		Pan Fine:		
		Tilt:		
		Tilt Fine:		
		PT Speed:		
		Special Fun:		
		Colour:		
Colour2:				
Colour3:				

		Cyan Colour:				
		Magenta Colour:				
		Yellow Colour:				
		Static Gobo:				
		Rot Gobo:				
		Gobo Rot:				
		Prism:				
		Prism Rot:				
		Frost:				
		Zoom:				
		Zoom Fine				
		Focus:				
		Focus Fine:				
		Strobe:				
		Dimmer:				
					>	Value+1
					<	Value-1
					ESC	Back
		ESC				
	SYSTEM INFO	DMX VALUE	CH00-CH37	0-255	DMX value number	
CH00-CH41			0-255	DMX value number		
LAMP REST		ALL MOTER	Right/Erro	Motor reset state		
		XY MOTER				
		PART MOTER				
			ESC	Back		
OTHER INFO		Run Time:	0-9999	Machine runing hours		
		Run Count:	0-9999	Open times memo		
		Residue T:	Most	No limit time		
		Residue C:	Most	No limit times		
		Type:	xxxx	LED Lamp model		
		Temp:	xxx	Temperature		
		Fan 1:	0-9999	Fan rotation speed 1		
		Fan 2:	0-9999	Fan rotation speed 2		
		DisVersion:	Vxxx	Version of display software		
		XY Version:	Vxxx	Version of Pan/Tilt software		
		M1 Version:	Vxxx	Software Version M1		
		M2 Version:	Vxxx	Software Version M2		
			ESC	Back		
ESC				Back		
DISPLAY SETTING	Light Set:		1-7Lev	Back Ground light level		
	Light Off:		0n	Keep back ground light on		
			1Min	Back light turn off after 1 min		

			2Min	Back light turn off after 2 mins
			3Min	Back light turn off after 3 mins
	Menu Back:		Off	Turn off the menu and back
			1Min	Menu back after 1 min
			2Min	Menu back after 2 mins
			3Min	Menu back after 3 mins
	Light Flash:		Off	Back ground light flash function off
			On	Back ground light flash function on
	Touch Cali:		Off	Touch screen calibration off
			On	Touch screen calibration on
			SAVE	Save and back
		ESC	Back	

LAMP SETTING	Lamp Default:		Off	Lamp off
			On	Lamp on
	Manual Lamp:		Off	Lamp off by manual
			On	lamp on by manual
	LampTime		0000-9999	Lamp time
	LampState		Off	Lamp off
			On	Lamp on
	Lamp Off:		10M	After 10 mins no signal come in, Lamp off
			Lifh	No signal come in , lamp keep lighting

11、DMX Channels

MODE 1	MODE 2	DMX Value	Function description
1	1	0—255	Pan
2	*	0—255	Pan Fine
3	2	0—255	Tilt
4	*	0—255	Tilt Fine
5	3	0—255	Pan/Tilt speed
6	4		Micro
		0—19	Empty
		20—24	Energy-saving mode (230W)
		25—129	Empty
		130—139	Lamp on by DMX
		140—149	PAN/TILT reset
		150—159	Empty
		160—169	Small motors reset
		170—199	Empty
		200—209	Whole unit reset

		210—229	empty
		230—239	Lamp off by DMX
		240—255	empty
7	5		Colors
		0—8	White
		9—17	Deep Red
		18—26	Deep Blue
		27—35	Yellow
		36—44	green
		45—53	Magenta
		54—62	Light blue
		63—71	red
		72—80	Deep green
		81—89	Amber
		90—98	blue
		99—107	orange
		108—116	CTO
		117—127	blue
		128—129	white+blue
		130—134	blue+CTO
		135—138	CTO+orange
		139—143	Orange+blue
		144—147	blue+amber
		148—152	Amber+deep green
		153—157	Deep green+red
		158—161	Red+light blue
		162—166	Light blue+magenta
		167—171	magenta+green
		172—176	Green+yellow
		177—180	Yellow+deep blue
		181—185	Deep blue+deep red
		186—189	Deep red+white
		190—220	Run from fast to slow
		221—250	Run from slow to fast
		251—255	Color change when sound control
8	*		empty
9	6		empty
10	7		Static gobo
		0—3	empty
		4—9	GOBO1
		10—15	GOBO 2

		16—21	GOBO 3
		22—27	GOBO 4
		28—33	GOBO 5
		34—39	GOBO 6
		40—45	GOBO 7
		46—51	GOBO 8
		52—57	GOBO 9
		58—63	GOBO 10
		64—69	Small beam 1
		70—75	Small beam 2
		76—87	Small beam 3
			GOBO shaking from slow to fast
		88—95	GOBO 1
		96—103	GOBO 2
		104—111	GOBO 3
		112—119	GOBO 4
		120—127	GOBO 5
		128—135	GOBO 6
		136—143	GOBO 7
		144—151	GOBO 8
		152—159	GOBO 9
		160—167	GOBO 10
		168—175	Small beam 1
		176—183	Small beam 2
		184—199	Small beam 3
		200—255	Static GOBO run from slow to fast
11	8		Rotate GOBO
		0—8	empty
		9—17	GOBO 1
		18—26	GOBO 2
		27—35	GOBO 3
		36—44	GOBO 4
		45—53	GOBO 5
		54—62	GOBO 6
		63—71	GOBO 7
		72—80	GOBO 8
		81—89	GOBO 9
			GOBO shaking from slow to fast
		90—97	GOBO 1
		98—106	GOBO 2

		107—115	GOBO 3
		116—124	GOBO 4
		125—133	GOBO 5
		134—142	GOBO 6
		143—151	GOBO 7
		152—160	GOBO 8
		161—169	GOBO 9
		171—179	GOBO 9 not move
		180—217	Run from fast to slow
		218—255	Run from slow to fast
			GOBO rotation
12	9	0—127	index
		128—177	Run from slow to fast in anti clockwise
		178—203	stop
		204—255	Run from fast to slow in clockwise
13	*	0—255	empty
14	10		prism
		0—19	empty
		20—75	6 linear prism
		76—255	8 facet prism
15	11		Prism rotation
		0—127	index
		128—191	Run from fast to slow in clockwise
		192—193	empty
		194—255	Run from slow to fast in anti clockwise
16	12		Frost
		0—64	empty
		65—255	empty
17	13		zoom
		0—255	Linear zoom
18	*	0—255	Zoom fine
19	14	0—255	focus
20	*	0—255	Zoom fine
21	*	0—255	empty
22	15		strobe
		0—31	Strobe close
		32—63	Strobe open
		64—95	Strobe from slow to fast
		96—127	Strobe open

		128—143	Fast to slow,slow close fast open
		144—159	Slow to fast,fast open slow close
		160—191	Strobe open
		192—223	Random strobe from slow to fast
		224—255	Strobe open
23	16		dimmer
		0—255	Linear dimmer
24	*		empty

Note: the above list has 2 channel modes.

12、ROUTINE MAINTENANCE

CLEANING AND MAINTENANCE



WARNING!

- 1、 Turn off the power before opening any cover.
- 2、 After the power supply is broken, the bottom is cooled and the lid is opened.
- 3、 Dust or floats can be blown gently with a vacuum cleaner or a pressure blow machine.

13、SIMPLE TROUBLESHOOTING

- 1.The whole device reacts... 1) first check whether the power fuse is normal, 2) check whether the output of switching power supply is normal, and the normal output of switching power supply is 27V.
- 2.If a one - way function is not normal... First, find the driving plug of the circuit board of this road, and change the two adjacent drive motor plugs to check out the problem of the board or the wiring or the motor.
- 3.If a one - way function is not normal... First, find the driving plug of the circuit board of this road, and change the two adjacent drive motor plugs to check out the problem of the board or the wiring or the motor.
- 4.If a few road function work is not normal... In general, a chip controls several drives at the same time, so it is possible that the chip is abnormal.