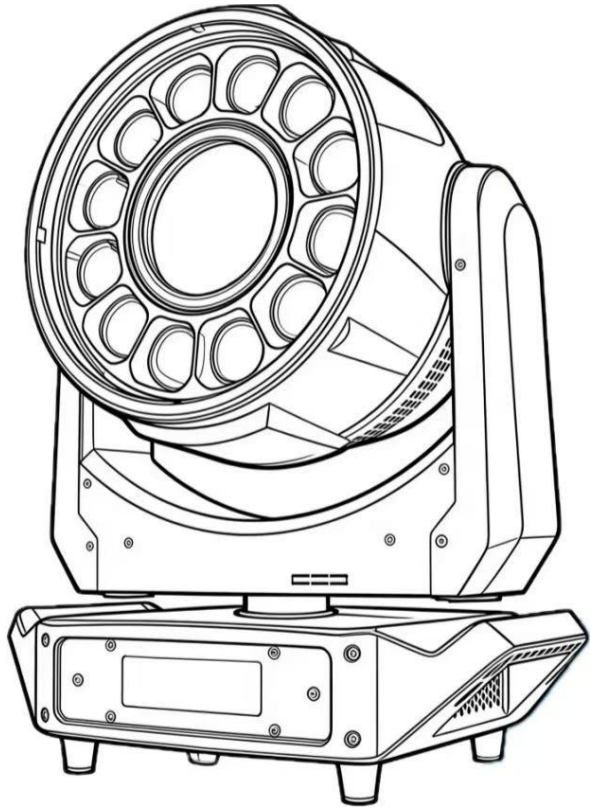
Donut



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!
We are confident that our excellent products and service can satisfy you.
For your own safety, please read this user manual carefully before installing the device.
In order to install, operate, and maintain the lighting safety correctly.
We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!
Keep this device away from rain and moisture!



CAUTION!
Unplug mains lead before opening the housing!

Every person involved with the installation, operation and maintenance of this device has to:
-be qualified
-follow carefully the instructions of this manual

INTRODUCTION:

Thank you for having chosen this professional moving head.
You will see you have acquired a powerful and versatile device.
Unpack the device. Inside the carton box you should find:
1. One power in cable
2. One 3-Pin DMX cable
3. Two folding clamps
4. One safety cable
5. One English user manual
（Flight case is optional, please contact your dealer）
Please check carefully that there is no damage caused by transportation.
Should there be any questions, please consult your dealer and don’t install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc.
This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6 th page of this manual.
Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.
Do not shake the device. Avoid brute force when installing or operating the device.
While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.
If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.
For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

SAFETY INSTRUCTIONS



CAUTION!
Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user

manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.

2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ **Important:**

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class Ⅰ. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



CAUTION!
Never touch the device during operation!
The housing may heat up!

AI识图



CAUTION!
Never look directly into the light source,
As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing. Fixations and

installations spots(ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!
Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.

2) Clean the fan each week.

3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solven

To ensure the normal use of this product , please read this instruction carefully.

Signal cable connection（DMX）

Use RS-485 cables that meet specifications: shielded, 120ohm characteristic impedance, 22-24 AWG, low capacitance. Do not use microphone cables or cables with different specified characteristics. The terminal connection must use a 3 or 5-pin XLR male/female connector. (Minimum 1/4 W).

Important reminder: The cables must not come into contact with each other or with the metal casing

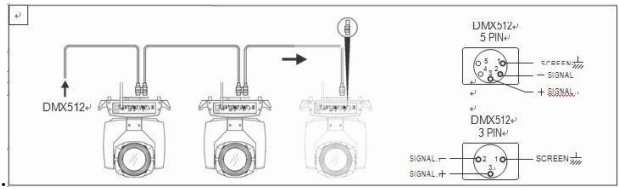


Figure 1 Schematic diagram of the connection of the DMA signal line

TECHNICAL PARAMETERS

Power supply

Input voltage: AC90-240V 50/60Hz

Rated Power: 800W

CONTROL AND PROGRAMMING

Control signal: MX512, master/slave,

Sound controlled or Auto running

Channel: 34 /82 DMX channels switchable

Light source

One 200W high brightness LED module on the inner ring

and 12pcs 40W/60W high brightness LEDs on the outer ring

Linear CTO color temperature : 2500K-8000K (40W/60W RGBW LED)

Effect SECTION

Color: The inner LED beam is equipped with a 13 color fixed color wheel,

and the outer circle has a bee eye RGBW four in one

GOBO: 6 GOBO+3 effect GOBO+Blank(200W LED)

Prism: 1pcs 8 facet prism+1pcs honeycomb prism (200W LED)

OPTIC

One frost lens .

The outer circle has scaling and bee eye rotation functions, point control, and excellent color macro effects

Electric focusing system

Beam angle: 3 ° (200W LED)

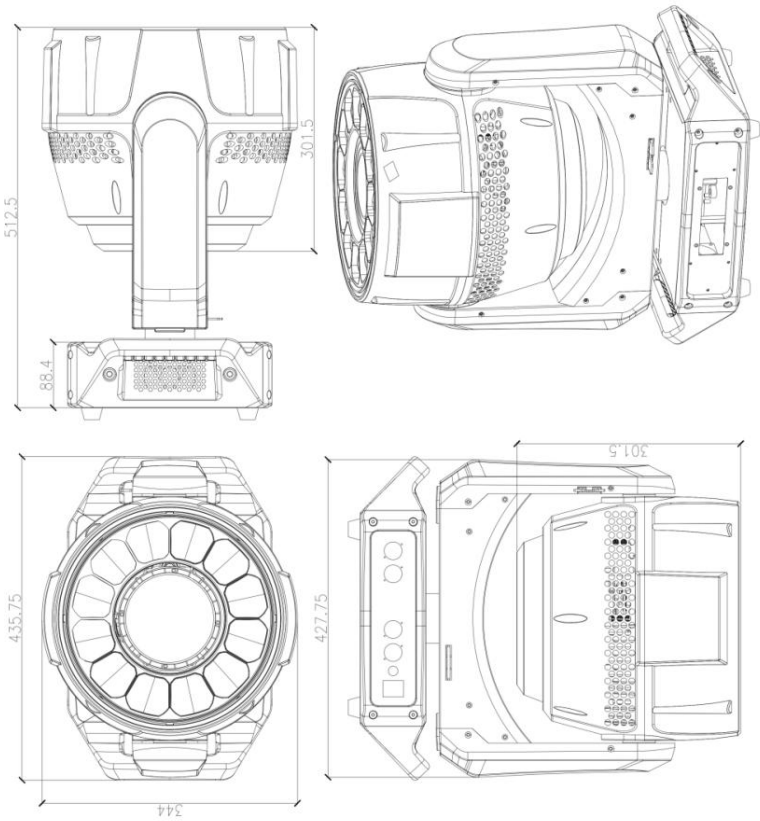
Zoom angle: 4 ° - 51 ° (40W/60W RGBW LED)

BODY

Protection level: IP20

Product size:428*344*505mm

FIXTURE SIZE(MM)



Installation

Lights can be placed horizontally , diagonally or upside down. Pay attention to the installation method when slant and upside down.

As shown in figure 2 , it is necessary to ensure the stability of the installation site before positioning the light. During the installation of the inverted hanging , it is necessary to ensure that the light does not fall off from the support frame, and the safety rope should be used to pass through the support frame and the handle of the light for auxiliary hanging to ensure safety. Prevent light from falling and sliding.

During the installation and debugging of the light, pedestrians are not allowed to pass under the lights. Check regularly whether the safety ropes are worn of the hook screws are loose.

Our company will not assume any responsibility for any consequences caused by falling of the light due to unstable hanging installation.

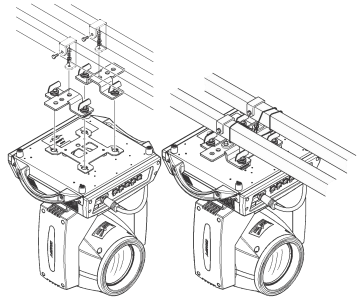


Figure 2 Schematic diagram of inverted lighting fixtures

Panel operation

Overview

The light panel diagram show as Figure 3, above area is fixture description, below area show fixture real-time status, such as DMX cable status, lamp status, error or information(ps. when there are message haven't been checked, echo 'ERR' in status bar, otherwise echo 'NOR').

Display & operation just like 'Android operation system', when select or set item value, system save the setting immediately.

RDM protocol is embed in fixture, user set DMX address via cable using the controller support RDM function. when fixture was search by controller, display will echo ‘RDM’ indicate this RDM is work.

Attention: Do not use sharp or pointed objects to click on the display screen to prevent damage.

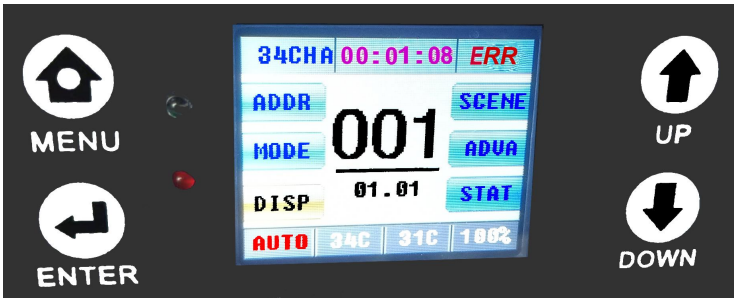


Figure 3 display panel

Operation

Click the MENU button to enter the main menu, select the item to be operated on through UP or DOWN button, then press the ENTER button to enter the submenu. Use the UP or DOWN button to select the item to be operated on in the submenu, press the ENTER button to enter settings, and use the UP or DOWN button to modify parameters. After modification, press the MENU key directly to return to the main menu.

Taking language setting as an example:

Firstly, press the MENU key to enter the main menu as shown in Figure 3.

Next, use the UP or DOWN key to display this menu

Then press the ENTER key to enter the display settings menu, as shown in Figure 4.

Then use the UP or DOWN key to find the language column

Press the ENTER key to enter language settings.

Set the required language through UP or DOWN button

Press the ENTER key to save the parameter

At last press MENU key to return to the main menu and complete the setup



Figure 4

Running mode

DMX Ctrl	DMX mode, receive DMX signal, RDM signal	
Auto Run	Fixture run automatically according to built-in programs	
Sound Ctrl	When the fixture detects a strong sound, the fixture automatically runs a scene according to the built-in program, otherwise it will stay the last scene	
Scene Mode 01	runs in a set scene, which supports most of the custom editing of 10 scenes.	
	1~10	outputs the specified scene
	Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore
M/S Choose	Master and slave selection, non-DMX mode takes effect, select the mode of data output, fixture detect DMX cable state automatic switch output, prevent data conflicts	
	Master	fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.
	Slave	fixture runs built-in program and do not output data
	Auto	If DMX has no signal, the fixture will runs built-in program. Otherwise, the fixture will run in DMX Mode(follow DMX).
Lamp switch	(Lamp light source) pop-up confirmation dialog box, select "SURE" to confirm the current operation, turn on or off the lamp,	

	switch time interval limited to 30 seconds	
	Off	the current lamp output is off
	On	The current lamp output is turned on

Scene mode applies to a single or a small number of fixture, just output a fixed scene, or need to run a simple program, you no need connect to the console, in the scene page can be edited.

If the light source of the lamp is a bulb, please wait for 10 minutes before turning on the bulb after turning it off.

Panel display settings

The lighting fixtures support bilingual Chinese and English, inverted display, etc. Enter the corresponding parameter settings as shown in Figure 4, and the specific menu content is shown in the table below：

Display settings

Language	display language settings	
	English	English display
	Chinese	Chinese display
Screen saver	Set screen 30 seconds without operation,the screen's display content or method.	
	OFF	Keep the last operation page
	Mode1	Black
	Mode2	Black screen, showing the address code of the current fixture in the lower left corner.
	Mode3	Display trademark information,address code and operation mode.
Screen Rot	Set the display direction of the screen.	
	OFF	No reverse display
	ON	Reverse display
DMX Indicate	Set the indication mode of DMX signal indicator.	
	Mode1	When signal is bright, no signal is off.
	Mode2	When signal is off, no signal is bright.

	Mode3	When signal is flash, no signal is off.
Screen Light	Set the brightness of the screen backlight 10 seconds after no operation, and it will be fully lit during operation	
	1~10	10 level

Scene mode

On the page shown in Figure 5, the lighting fixture enters scene editing mode. On this page, the lighting fixture does not receive data from the DMX console, and the edited data is immediately reflected on the lighting fixture.

The content of the page depends on the currently selected channel, and the displayed channel content and order are consistent with the lighting channel table.

Through this page, 10 scenes can be edited, as shown in the table below:



Figure 5

Scene mode

Scene Select	Select the current operation scenario.	
	1~10	The 10 scenes sets the format
Scene Time	Sets the retention time of the current scene when it is automatic, unit in 0.1 seconds.	
	0	The current scene is not output in automatic scene output.
	1-255	0..1s-25.5s
1. PAN	0-255	Set up the data of each channel, and the contents and order of the display are one-to-one correspondence with the channel list of fixture.
……	0-255	
……	0-255	
16. Reset	0-255	

If the reset channel in the scene edits the effective reset data, the fixture will reset, but after reset, the corresponding reset channel value will automatically set 0,

preventing multiple consecutive resets.

Looking at this page, you can get the current channel table slot of the fixture. For specific channel data, please refer to the detailed channel description.

Advanced Settings



Figure 7

Enter the page shown in Figure 7, adjust the on-site parameters of the lighting fixtures to facilitate on-site installation, etc

Advanced Setting

Pan Invert	Set the rotation direction of PAN	
	OFF	
	ON	
Tilt Invert	Set the rotation direction of TILT	
	OFF	
	ON	
P/T Rectify	Setting up fixture to detect XY lost step and correct	
	OFF	Uncorrected position after out of step
	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.
Pan Offset	Setting the zero point of the PAN of the fixture	
	4-150	
Tilt Offset	Setting the zero point of the TILT of the fixture	
	4-48	
Data hold	When the fixture is not equipped with DMX signal, the output state of the fixture	

	OFF	No signal, so the motor and light source return to the position and state when reset is completed.
	ON	No signal, keep the last frame DMX data output.
Scene Time	001-255	
Lamp mode	(lamp light source) Set the way to first open the lamp after power up	
	Power on	Turn on the lamp at power up and reset the lamp after 30 seconds.
	After reset	Reset the fixture after 3 seconds when power-on, and turn on the lamp after reset.
	Manual	After reset, manually turn on the lamp through the menu or console.
Reset	Reset fixture	
Factory Setting	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	

When selecting the power on bubble mode, the lamp will wait for 30 seconds for the light bulb to fully start after being powered on. After the internal voltage is stable enough, the reset program can be started. If the on-site power consumption capacity is stable, it is recommended to use the power on bulb mode.

When the lamp cannot correct its position, please first check if "optocoupler correction" is turned off.

After unplugging the signal, if the position of the lamp is not outputted as expected, please check the "data retention" setting first.

When setting the XY offset, after completing the setting, please first control XY with the maximum stroke to check that it will not collide with the positioning rod or housing after setting.

1. Check the current status

Upon entering the page shown in Figure 8, you can view the information and real-time status of the lighting fixture to obtain its usage status. If the lighting fixture requires after-sales service, please provide the status information displayed on this

page as a basis for judgment, as shown in the table below:



Figure 8

Status information

Stepper info	Display information status of all motors and signals in fixture.	
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback
	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
Error Logging	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
	Error Logging	Total number of failures detected after power on
	12：:03	The time of power failure when the fault occurs is in minutes.
	Hall error	The effective hall signal is not detected when the motor is reset
	Hall short	When the motor is reset, the hall signal of the motor is always effective
	Opti error	No effective optocoupler signal is detected when

		the motor is reset.
	Lose stop	The corresponding motor is out of step during its operation.
	Hit	Striking the positioning rod when the motor is reset
	Lamp error	Lamp explosion accident
	NTC error	The temperature sensor signal is abnormal
	Fan error	The main fan is not working properly.
Fixture status	Displays the critical state data of the current fixture for reference.	
	Communication prec	0~100%, Communication quality of internal data link of lamps and lanterns
	Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
	Light Temperature	Show the temperature of the current light source, "---" means no detection.
	Panel Temperature	Displays the temperature of the current display panel or the ambient temperature.
	Sensor1 Temperature	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
Version	Display the information and version of the current fixture, important reference for after sales maintenance.	
	Device	The name of the fixture is the same as the equipment information of RDM.
	Model	The type of fixture is the same as the model information of RDM.
	Panel	Firmware version and serial number of display panel
	Main Board	Firmware version and serial number of mother board 1
Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time	

Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.

Channel Description

Channel Table

This lighting fixture channel can be viewed in order in scene mode, and the channel mode is set in the "Address Settings" page. The specific detailed data is shown in the table below:

Channel table

34CH	82CH	Function	Value	Description
CH1	**CH1**	**Pan**	0-255	0-540 degree
CH2	**CH2**	**Pan fine**	0-255	0-2 degree
CH3	**CH3**	**Tilt**	0-255	0-270 degree
CH4	**CH4**	**Tilt fine**	0-255	0-1 degree
CH5	**CH5**	**Pan Tilt speed**	0-255	From fast to slow
CH6	**CH6**	**Frost (Beam)**	0-127	Invalid
			128-255	Insert frost
CH7	**CH7**	**Strobe (Beam)**	0-3	Close
			4-103	Pulse strobe from slow to fast
			104-107	Open
			108-207	Gradient strobe from slow to fast
			208-212	Open
			213-251	Random strobe from slow to fast
			252-255	Open
CH8	**CH8**	**Dimmer（Beam）**	0-255	0-100% linear dimming
CH9	**CH9**	**Color （Beam）**	0-4	White

5-9	White + Color1
10-14	Color1
15-19	Color1 + Color2
20-24	Color2
25-29	Color2 + Color3
30-34	Color3
35-39	Color3 + Color4
40-44	Color4
45-49	Color4 + Color5
50-54	Color5
55-59	Color5 + Color6
60-64	Color6
65-69	Color6 + Color7
70-74	Color7
75-79	Color7 + Color8
80-84	Color8
85-89	Color8 + Color9
90-94	Color9
95-99	Color9 + Color10
100-104	Color10
105-109	Color10 + Color11
110-114	Color11
115-119	Color11 + Color12
120-124	Color12
125-129	Color12 +Color13
130-134	Color13

			135-139	Color13 + white
			140-197	Forwards following from fast to slow
			198-255	Backwards flowing from slow to fast
CH10	**CH10**	**GOBO（Beam）**	0-7	White
			8-13	GOBO1
			14-19	GOBO2
			20-25	GOBO3
			26-31	GOBO4
			32-37	GOBO5
			38-43	GOBO6
			44-49	GOBO7
			50-55	GOBO8
			56-63	GOBO9
			64-70	GOBO1 Jitter from slow to fast
			71-77	GOBO2 Jitter from slow to fast
			78-84	GOBO3 Jitter from slow to fast
			85-91	GOBO4 Jitter from slow to fast
			92-98	GOBO5 Jitter from slow to fast
			99-105	GOBO6 Jitter from slow to fast
			106-112	GOBO7 Jitter from slow to fast
			113-119	GOBO8 Jitter from slow to fast
			120-127	GOBO9 Jitter from slow to fast
			128-189	Reverse flow from fast to slow
			190-193	Stop
			194-25	Forward flow from slow to fast

			5	
CH11	**CH11**	**Prism1/2（Beam）**	0-63	Remove the prism
			64-127	Insert Prism 1
			128-191	Insert Prism 2
			192-255	Prism Overlay
CH12	**CH12**	**Prism1Rt（Beam）**	0-127	0-360 degree prism angle adjust
			128-190	Forward flow from fast to slow
			191-192	Stop
			193-255	Reverse flow from slow to fast
CH13	**CH13**	**Prism2Rt（Beam）**	0-127	0-360 degree adjust
			128-190	Forward flow from fast to slow
			191-192	Stop
			193-255	Reverse flow from slow to fast
CH14	**CH14**	**Focus（Beam）**	0-255	From far to near
CH15	**CH15**	**Focus Fine（Beam）**	0-255	From far to near
CH16	**CH16**	Auxiliary light 3535 dimmer	0-255	Auxiliary light 3535 dimmer
CH17	**CH17**	Auxiliary light 3535 Strobe	0-255	Auxiliary light 3535 Strobe
CH18	**CH18**	Auxiliary light 3535 effect	0-255	From far to near
CH19	**CH19**	Auxiliary light 3535 Effect speed	0-255	From slow to fast
CH20	**CH20**	**AURA Mode**		LED ring effects

CH21	**CH21**	**AURA Speed**		LED ring effects speed
CH22	**CH22**	**Focus（WASH）**	0-255	From far to near
CH23	**CH23**	**Lens Rotation（WASH）**	0-127	0-360 degree
			128-190	Reverse rotation from fast to slow
			191-192	Stop
			193-255	Forward rotation from slow to fast
CH24	**CH24**	**Dimmer （WASH）**	0-255	From dark to bright
CH25	**CH25**	**Strobe （WASH）**	0-255	From slow to fast
CH26	**CH26**	**Red（WASH）**	0-255	From dark to bright
CH27	**CH27**	**Green（WASH）**	0-255	From dark to bright
CH28	**CH28**	**Blue（WASH）**	0-255	From dark to bright
CH29	**CH29**	**White(WASH）**	0-255	From dark to bright
CH30	**CH30**	**CCT（WASH）**	0-9	Invalid
			10-255	Color temperature 2800K-8000K
CH31	**CH31**	**Color Macro（BEE EYE）**	0-9	Invalid
			10-29	Color 1
			30-44	Color 2
			.....	.....
			224-232	Color 14
			233-239	Color 15
			240-255	Color 16
CH32	**CH32**	**Rotation Select (WASH）**	0-9	Invalid
			10-19	Effect 1
			20-29	Effect 2
			.....	.....

			230-239	Effect 23
			240-249	Effect 24
			250-255	Effect 25
CH33	**CH33**	**Rotation speed（WASH）**	0-127	Forward rotation from fast to slow
			128-255	Reverse rotation from slow to fast
CH34	**CH34**	**RESET**	0-239	Invalid
			240-255	Reset whole light after 3 seconds
	CH35	**Red 1 (WASH)**	000-255	From dark to bright
	CH36	**Geen 1 (WASH)**	000-255	From dark to bright
	CH37	**Blue 1 (WASH)**	000-255	From dark to bright
	CH38	**White 1 (WASH)**	000-255	From dark to bright
	……	**……**	000-255	From dark to bright
	CH79	**Red 12 (WASH)**	000-255	From dark to bright
	CH80	**Green 12 (WASH)**	000-255	From dark to bright
	CH81	**Blue 12 (WASH)**	000-255	From dark to bright
	CH82	**White 12 (WASH)**	000-255	From dark to bright

Common Faults and Precautions

1. Common faults and solutions

The light contains professional components such as microcomputer circuit boards and high-voltage power supplies. For your safety and product service life, non professionals are not allowed to disassemble the light and related accessories without authorization.

1. GOBO projection blur

- Check if the electronic focusing channel value is suitable for the current projection distance

2. Intermittent operation of lighting fixtures

Possibly the internal circuit have entered a protected state,solutions as follow：

- Check if the fan is operating normally or if it is dirty, causing an increase in internal temperature of the lamp;
- Check if the internal temperature control switch is in a closed state;

3. Check if the light source have reached their service life and replace them with new ones.

4. After the lamp is reset normally, it does not accept control from the console

Possibly signal cable malfunction or abnormal lighting parameter settings, the following measures should be taken：

- Check the starting address code and check the connection of the DMA signal cable (whether the signal cable is intact and whether the connector is loose);

4. Add a signal amplifier and a 120 ohm terminal resistor;

5. The light cannot be started

Possibly poor power supply circuit, solutions as follow：

- Check if the fuse on the power input socket is blown and replace the fuse;
- Poor contact of lighting fixtures due to vibration during long-distance transportation
- Check the input power supply, main board and other connectors .

2. Precautions for use

- Check whether the local power supply meets the rated voltage requirements of the product, and whether the leakage protector, overcurrent protector, etc. meet the load requirements carried;
- Do not use power cables with damaged insulation, and do not lap the power cable over other cables.
- The light use strong wind cooling ,which is prone to dust accumulation. They must be cleaned once a month, especially the heat dissipation vents, otherwise they may be blocked by dust accumulation, leading to poor heat dissipation and abnormal lighting.
- When installing lights, the fixing screws must be tightened m equipped with safety ropes, and checked regularly.
- When installing and positioning the light, the minimum distance between any point on the surface of the light and and flammable or explosive object should be 10 meters, and the distance from the illuminated object should be 2.5 meters. Please do not install the light directly on the surface of combustible materials .
- In order to ensure that multiple lighting fixtures better comply with the scene effect, the lighting fixtures should not be in an unfinished current scene and start the next scene action. It is best not to exceed 3 minutes in this state to ensure that multiple lighting fixtures can operate synchronously;
- During use, if there are any abnormalities in the lighting fixtures, they should be stopped in a timely manner to prevent other malfunctions from occurring.

3. RDM using precautions

- RDM is an extended version of the DMX512-A protocol, which is a Remote Device Management protocol. Traditional DMX512 protocol communication is one-way, based on the RS-485 bus. RS-485 is a time-sharing, multi-point, and half duplex protocol, and only one port is allowed to output to the host at the same time. Therefore, when using RDM, the following points should be noted:
- To use a console or host device that supports the RDM protocol host;
- To use a bidirectional signal amplifier, traditional unidirectional signal amplifiers are not suitable for the RDM protocol because the RMD protocol requires feedback data, and using a unidirectional amplifier will block the returned data,

resulting in the inability to search for lamps;

- All lighting fixtures must be set to DMX mode to ensure that there is only one host on the signal line
- ; A 120ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is relatively long, reducing signal reflection will use differential signals for greater stability, which is beneficial for communication quality;
- When a lighting fixture is controlled by the DMXs but cannot be searched by the RDM, first check the signal amplifier, and then check if there is any poor contact between the 2 and 3 lines of the signal line.

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning
and operating instructions as stated. Or we aren't in charge of any result by misusing.
Any damage resulting by misuse is not within the Company's warranty.
Any fault or problem caused by neglecting the manual is also not in the charge of dealers.
Errors and omissions for every information given in this manual excepted.
All information is subject to change without prior notice.

Thank you again for your patronage!
We will be offering sincere service as always,
Wish you have a good lighting journey!