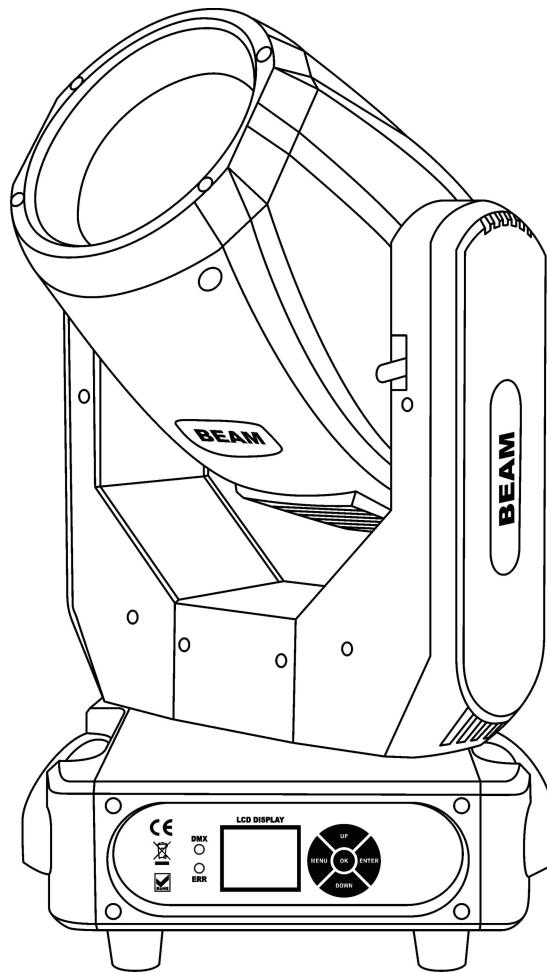


SAILWIN 295W BEAM MOVE HEAD



USER MANUAL

Please read over this manual before operation the light

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Chapter 1 Installation and attention

1.1 Maintenance

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Intermittently using will extend this item's service life.
- Please clear the fan ,fan net , and optical lens in order to keep good work state.
- Do not use the alcohol or any other organic solvent to wipe the shell.

1.2 Statement

The product has perfect performance and integrity packing. All users should be strictly complying 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.

Note: All information is subject to change without prior notice.

1.3 Safety Precaution

- In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
- Always mount this unit in safe and stable matter.
- Install or dismantle should operate by professional engineer.
- Using lamp, the change rate of power voltage should be within $\pm 10\%$, If the voltage is too high, it will shorten the light's life; If it's not enough, will influence the effect.
- Please restart it 20 minutes later after turning off light , until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.
- In order to make sure the product is used well, please read the Manual carefully.

1.4 Product Instruction

- lamp: MSD 295w (life:2200 hours Color temperature: 8000K)
- Channel mode:18CH
- Pan scan: 540°(16bit) Electric correction
- Tilt scan: 270° (16bit) Electric correction
- Amazing dot matix, four tact switch, 180° turning show
- Color wheel: one color wheel, 14 kinds of color chips in one color wheel
- Gobo: 14 gobos
- Effect Wheel: Rotation eight prism, effect move , frost
- 0-100% mechanical dimming, mechanical dimming and free dimming available.
- strobe macro control available.
- Lens optical system achanical fouce .beam angle 0~4°
- Over heat protection

- Power Input: 100-240V, 50/60Hz
- Power Dissipation: 350W
- IP level :IP20
- Magnetic ballast and AC/Dc power supply
- Product Size: 290X240X510mm
- Packing Size: 515X370X405mm G.W.: 14KG
- Flighting Size: 570X450X730mm 2in1 G.W.: 46KG
- Net weight: 12.5KG

1.5 Cable connection (DMX)

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the

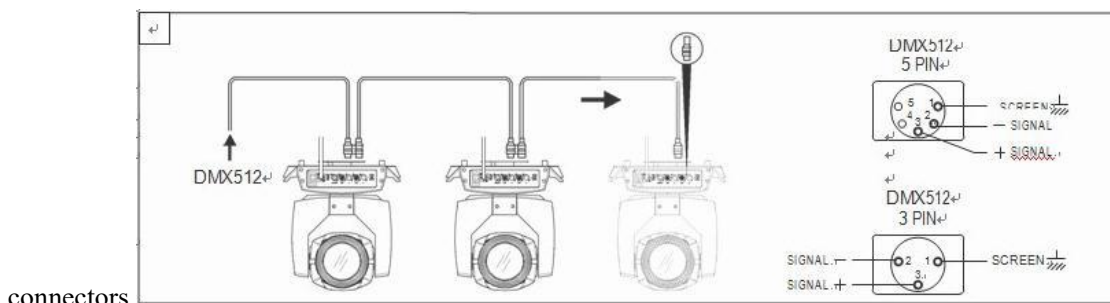


Figure 1 DMX Cable connection

1.6 Rigging (Optional)

This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps is needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

- Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.
- Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.
- Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.

- Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.
- Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.

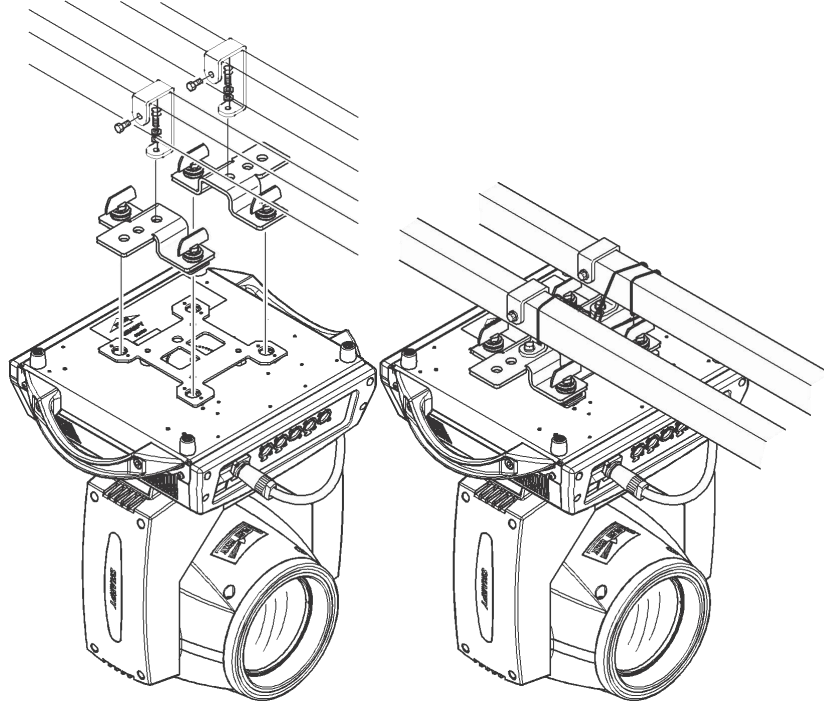


Figure 2 Installation

Chapter 2 Panel operation

2.1 Brief

The light panel diagram show as Figure 3, Left area is TFT Displayer, support touch, and right area is KEY, both of touch and KEY can operate light and setting.

Display & operation just like 'Android operation system', touch the item will set or modify setting.

Note: Prevent damage the touch or TFT displayer, Can not use sharp objects chick displayer.

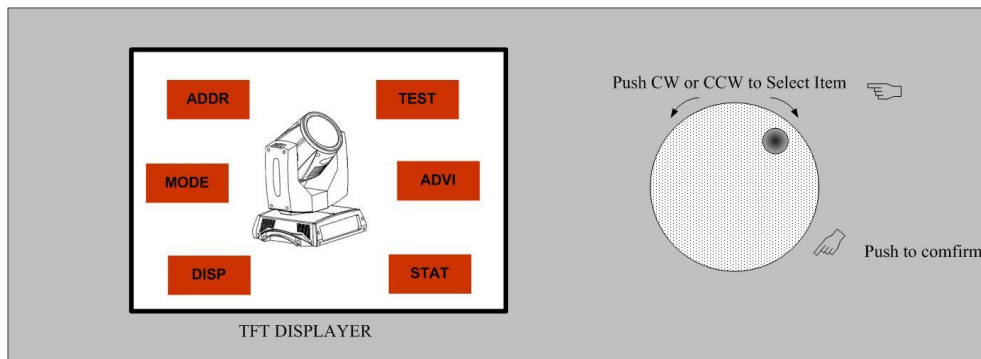


Figure 3 Panel diagram

2.2 Operation

2.2.1 Operate light with touch or KEY

- The left area is TFT Displayer and touch, chick item or value with finger will to complete operation of set light setting(parameters) or view light state.
- The area on the right hand side is 4 KEY, As auxiliary input interface, if disable touch function,, the KEYr can been choose to set the parameter.

2.2.2 Parameter value setting

When the selected item is value need to been modified, the dialog shown in Figure 4 will popup.

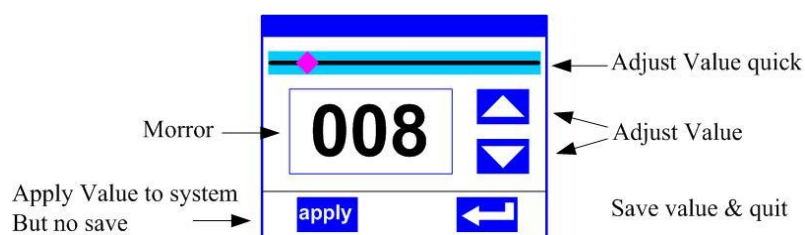


Figure 4 Dialog of value setting

- **Modify value:** Can quickly modify value via pull the slider to the desired position, or click the button of 'up' or 'down' whit finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.
- **Apply value:** When Value had been modified, Then press the bottom of 'apply' in the left corner to apply to the light, but hav't saved;
- **Save Value:** Any time, click on the lower right corner of the "OK" button, the setting will been saved into internal memory.

2.2.3 Boolean parameter setting

- when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by

chick corresponding item, the setting will been saved right now.

- When the parameter is a key item, chick corresponding item, a dialog shown in Figure 5 will been popup ask for the confirm. Chick 'sure' to confirm.

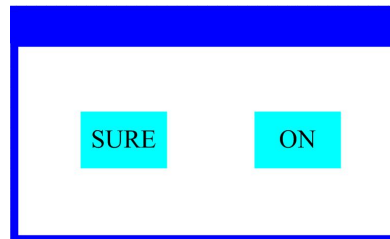


Figure 5 Dialog of confirm

2.2.4 Sub Menu (Parameter)

Chick item of main menu, enter corresponding sub menu, shown in Figure 6, total 6 sub menu, includes class of parameter and status:

- ADDRESS: Set light DMX address.
- WORKMOD: Set light work mode, master or slave mode when in auto run mode.
- DISPLAY: Set display parameter, eg. select language.
- TEST: Used for test light, modify DMX channel data to test function, the corresponding function of reference channel function table.
- ADVANCE: Set light running parameter.
- STATUS: view light current status.



Figure 6 Parameter menu

2.3 Operation and parameter instruction

Via following operation, enter sub menu(parameter menu) shown in Figure 6

- In main menu, chick 1/6 function button into corresponding parameter menu.
- In sub menu(page), chick main item on the left side of displayer, can shift to corresponding sub

menu(page) quickly.

2.3.1 ADDR--> Address: Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't is not greater than (512- channels quantity), otherwise the light will not been controlled. Following is the operation:

Enter the page of DMX address, as shown in Figure 7, click the blank area in right side of display will pop-up diglog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

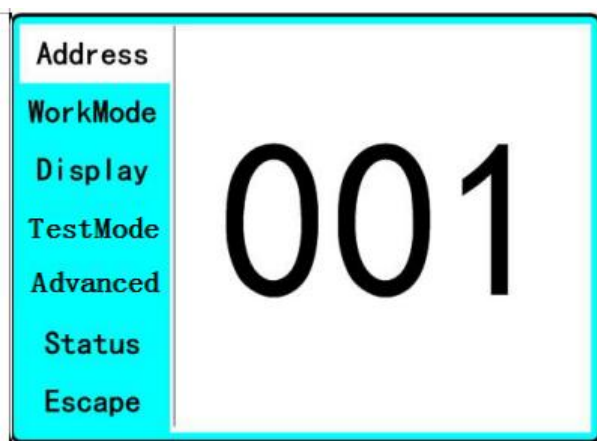


Figure 7 page of DMX Address

2.3.2 MODE--> WorkMode: Set Light work mode

Enter the page of 'WorkMode' as shown in Figure 8 and modify setting. Can set light work mode, control lamp and DMX channel mode.

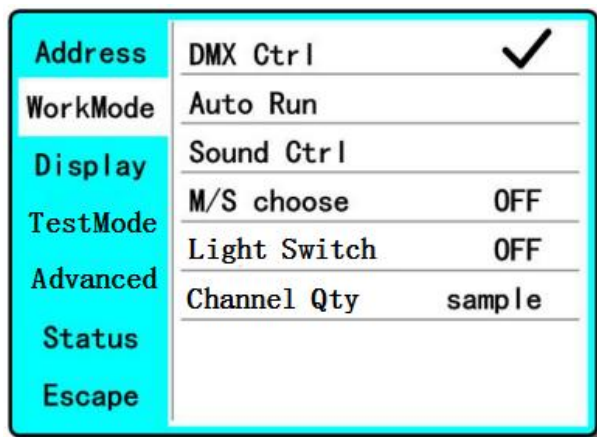


Figure 8 page of work mode

- ◆ **DMX Ctrl:** Choose to set DMX Mode,
- ◆ **Auto Run:** Choose to set Auto Mode,
- ◆ **Sound Ctrl:** Choose to set Sound Mode,
- ◆ **M/S Choose:** Available just in 'AUTO RUN' or 'SOUND Ctrl' mode.
ON--> Master. (Data will be send to other slave lamp immediately.)
OFF--> Slaver.(NOT send data to other lamp via DMX Cable).(Default)
- ◆ **Light Switch:**
ON--> Turn on the light,
OFF--> Turn off the light.
- ◆ **Channel Qty:** Light support 2 DMX Channel mode: sample or extend.
Simple --> 18CH.(Default)

Expand--> 20CH(or null).

2.3.3 DISP-->DISPLAY: Set display

Light support 2 language, rotation display, Enter page as shown in Figure9 to set parameter following:

Address	语言	English
WorkMode	Screen saver	Mode3
Display	Screen rotation	OFF
TestMode	Touch Enable	ON
Advanced	Touch Rectify	
Status		
Escape		

Figure9 page of display

◆ **Language:** English / 中文.

◆ **Screen Saver:** when panel is idle(these is no operation in 10 second), displayer will enter saver status.

OFF--> No screen saver.

Mode1--> Power-saving mode, turn off the display.

Mode2--> Displays the current address.

Mode3--> Displays the icon and the current working mode.(Default)

◆ **Screen Rotion: To turning display.**

ON--> Normal display.(Default)

OFF--> 180° turning display.

◆ **Touch enable:** Disable or enable touch function,.

ON--> Enable touch function.(Default)

OFF--> Dosable touch function.

◆ **Touch adjust:** Adjust touch function. Normally, not enter this item.

2.3.4 TEST--> TestMode

Enter the page as shown in Figure 10, Light will into test mode, in this mode, the light does not receive the data for DMX controller.:

Address	PAN	000
WorkMode	TILT	000
Display	FOCUS	000
TestMode	COLOR	000
	GOBO	000
Advanced	PRISM	000
Status	FROST	000
Escape	STROBE	000

Figure 10 page of Test

- ◆ **PAN:** range for 0 to 255;
- ◆ **TILT:** range for 0 to 255;
- ◆ **FOCUS:** range for 0 to 255;
- ◆ **COLOR:** range for 0 to 255;
- ◆ **GOBO:** range for 0 to 255;
- ◆ **PRISM:** range for 0 to 255;
- ◆ **FROST:** range for 0 to 255;;
- ◆ **STROBE:** range for 0 to 255;

2.3.5 ADVA-->Advanced: Set light run parameter

Enter the page as shown in Figure 10, set the parameter of light:

Address	PAN Inset	OFF
WorkMode	TILT Inset	OFF
Display	P/T Rectify	ON
TestMode	PAN Offset	010
	TILT Offset	010
Advanced	Lamp when	Power ON
Status	Data hold	OFF
Escape	Factory Setting	

Figure 11 page of run parameter

- ◆ **Pan Invert:** Reverse PAN move
OFF--> Pan Normal move.(Default)
ON--> Reverse PAN move.
- ◆ **Tilt Invert:** Reverse TILT move
OFF--> Tilt Normal move.(Default)
ON--> Reverse Tilt move.
- ◆ **P/T Rectify:** Disable or enable position rectify function.
OFF--> Disable P/T rectify
ON--> Enable P/T rectify-(Default)
- ◆ **Pan Offset:** Set PAN original position. **Default: 10**
- ◆ **Tilt Offset:** Set TILT original position. **Default: 10**
- ◆ **Lamp when:**
PowerON--> Turn on the lamp when power on.(Default)
RstDone--> Turn on the lamp after reset.
Manual--> Manually turn on the lamp.
- ◆ **Data hold:**
OFF--> When no DMX signal,return to middle position.(Default)
ON--> When no DMX signal,stop in the final position.
- ◆ **Factory Setting:** Restore all parameter to factory setting.

2.3.6 STAT-->Status: View status

Enter the page as shown in Figure 12:

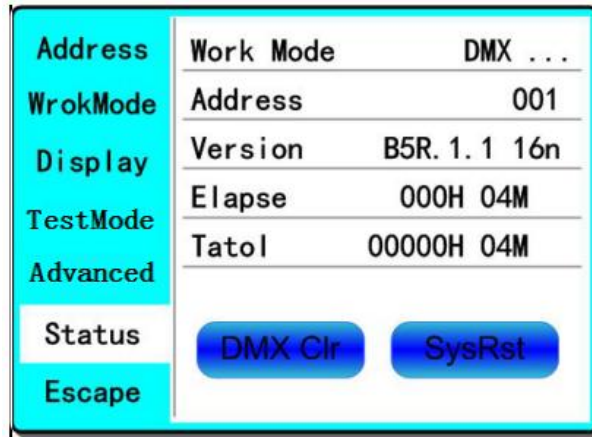
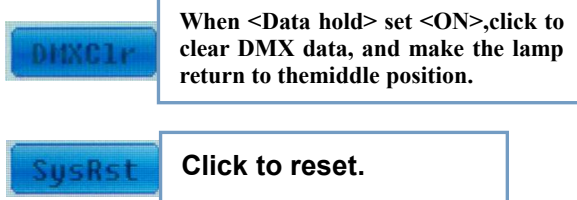


Figure 12 page of status

- ◆ **Work Mode:** Show the current working mode.
- ◆ **Address:** Show the current address.
- ◆ **Version:** Show the version of the lamp.
- ◆ **Elapse:** Working hours after turn on.
- ◆ **Tatol:** Cumulative hours of operation



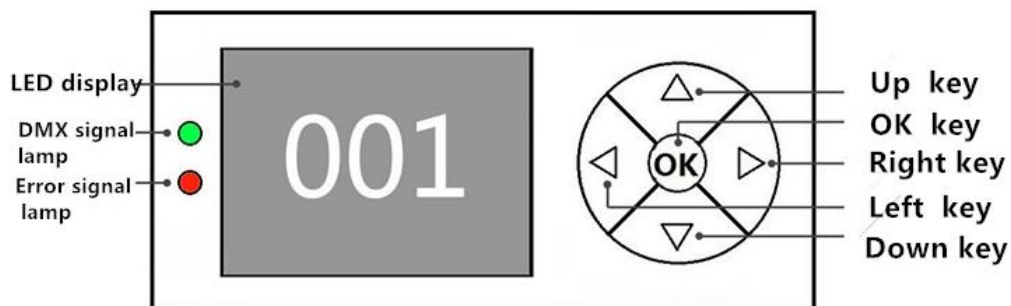
Chapter 3 Channel description

3.1 Channel table

18 channels			
Passageway	Function	umerical value	Describe
1	X-axis	0-255	0-540 degrees
2	Y-axis	0-255	0-270 degrees
3	X-axis fine-tuning	0-255	X-axis 16 bit
4	Y-axis fine-tuning	0-255	Y-axis 16 bit
5	XY speed	0-255	Fast to slow speed
6	Colorful	0 - 127	No effect
		128 - 255	Cut into Rainbow
7	Strobe light	0 - 3	No effect
		4 - 103	Ordinary strobe light
		104 - 107	Dimming
		108 - 207	Pulse flicker
		208 - 212	Dimming
		213 - 251	Random flicker
		252 - 255	Dimming
8	Dimming	0-255	0-100% linear dimming
9	Color palette	0 - 4	white light
		5 - 9	White light+color 1
		10 - 14	Color 1
		15 - 19	Color 1+Color 2
		20 - 24	Color 2
		25 - 29	Color 2+Color 3
		30 - 34	Color 3
		35 - 39	Color 3+Color 4
		40 - 44	Color 4
		45 - 49	Color 4+Color 5
		50 - 54	Color 5
		55 - 59	Color 5+Color 6
		60 - 64	Color 6
		65 - 69	Color 6+Color 7
		70 - 74	Color 7
		75 - 79	Color 7+Color 8
		80 - 84	Color 8
		85 - 89	Color 8+Color 9
		90 - 94	Color 9
		95 - 99	Color 9+Color 10
		100 - 104	Color 10
		105 - 109	Color 10+Color 11

		110 - 114	Color 11
		115 - 119	Color 11+Color 12
		120 - 124	Color 12
		125 - 129	Color 12+Color 13
		130 - 134	Color 13
		135 - 139	Color 13+Color 14
		140 - 144	Color 14
		145 - 149	Color 14+White
		150 - 200	Clockwise rotation from fast to slow
		201 - 255	Rotate counterclockwise from slow to fast
10	Fixed diagram disk	0 - 4	circular hole
		5 - 9	Pattern 1
		10 - 14	Pattern 2
		15 - 19	Pattern 3
		20 - 24	Pattern 4
		25 - 29	Pattern 5
		30 - 34	Pattern 6
		35 - 39	Pattern 7
		40 - 44	Pattern 8
		45 - 49	Pattern 9
		50 - 54	Pattern 10
		55 - 59	Pattern 11
		60 - 64	Pattern 12
		65 - 69	Pattern 13
		70 - 125	Clockwise rotation from fast to slow
		126 - 130	circular hole
		131 - 190	Rotate counterclockwise from slow to fast
		191 - 195	Pattern 1 Shake
		196 - 200	Pattern 2 Shake
		201 - 205	Pattern 3 Shake
		206 - 210	Pattern 4 Shake
		211 - 215	Pattern 5 Shake
		216 - 220	Pattern 6 Shake
		221 - 225	Pattern 7 Shake
		226 - 230	Pattern 8 Shake
		231 - 235	Pattern 9 Shake
		236 - 240	Pattern 10 Shake
		241 - 245	Pattern 11 Shake
		246 - 250	Pattern 12 jitter
		251 - 255	Pattern 13 Shake
11	Prism 1	0 - 127	No effect
		128 - 255	Cut in Prism 1
12	Prism 2	0 - 127	No effect
		128 - 255	Cut in Prism 2
13	Prism 1&Prism 2	0 - 127	Linear rotation

	rotation	128 - 187	Clockwise rotation from fast to slow
		188 - 195	Stop rotating
		196 - 255	Rotate counterclockwise from slow to fast
14	Atomization	0 - 127	No effect
		128 - 255	Cut into atomization
15	focusing	0-255	0% -100% linear focusing
16	Reset	0 - 99	No effect
		100 - 105	Extinguish bubbles
		106 - 199	No effect
		200 - 205	Bright Bubble
		206 - 240	No effect
		241 - 255	reset
17	effect	0 - 255	
18	Effect speed	0 - 255	



The functions of the left and right buttons are the same. Return to the previous interface

Up and down to select Edit

OK key (OK key) executes the function, starts editing, and exits editing

Display board function operation

- MENU : Cycle through the top menu or return to the previous menu
- ENTER: Enter the next menu or confirm and save the selected parameters
- UP: Up the menu, switch the selected parameter or increase the value
- DOWN: Down the menu, switch the selected parameter or decrease the value

3.2 Menu structure

Set up		Function
Address code	1 - 512	Set address code
passageway	<u>18CH</u>	Set channel
Operating mode	<u>DMX512/go one's own way/Voice control/Manual</u>	Set operation mode
Address,code Auto	Open/shut	The address code is automatically calculated. For example, the current address code is 1 and the channel mode is 16CH. After the address code is turned on automatically, press the set address code to automatically add 16, that is, the address code becomes 17
Signal hold	open/shut	After opening, the original action will be maintained if there is no signal
XYexchange	open/shut	X and Y channel exchange
X-axis reversal	open/shut	X-axis reversal
Y-axis reversal	open/shut	Y-axis reversal
Encoder error correction	open/shut	Encoder error correction
Hall error correction	open/shut	Hall error correction
Restore settings	Yes / no	Restore factory settings (but do not restore trim data)

Channel	Manual		Function
01	X-axis	0-255	
02	Y-axis	0-255	
03	X-axis fine-tuning	0-255	
04	Y-axis fine-tuning	0-255	
05	XY speed	0-255	
06	Colorful	0-255	
07	Strobe light	0-255	
08	Dimming	0-255	

09	Color palette	0-255	
10	Fixed diagram disk	0-255	
11	Prism 1	0-255	
12	Prism 2	0-255	
13	Prism 1&Prism 2 rotation	0-255	
14	Atomization	0-255	
15	focusing	0-255	
16	Reset	0-255	
17	effect	0-255	
18	Effect speed	0-255	

Calibration	Effect
Please enter a 4-digit password to use this function	

Display		Effect
Screen saver time	15 seconds /30 seconds /60 seconds / off	When the time arrives, return to the desktop
backlight time	15 seconds /30 seconds /60 seconds / off	The screen will be off when the time reaches
Screen reversal	On / off	Screen forward and reverse control
language	Chinese / English	Select Chinese or English

Reset		Effect
reset all	Yes / no	Reset all motors
XY reset	Yes / no	XY motor reset
Head reduction	Yes / no	Head small motor reset

Bulb setting		Effect
Power on bright bubble	Yes / no	Automatic bubble lighting after power on reset
Manual light bubble	Yes / no	Manual bubbling
Half power	Yes / no	Whether half power mode is turned on

DMX data monitoring	Effect
Monitor DMX512 data value of each channel	

Reset information	Effect
If the system reset is normal, the system is normal. If there is a reset error, the corresponding reset error message will be prompted	

Sensor information	Effect
--------------------	--------

X encoder	*****	Current encoder count value
Y encoder	*****	Current encoder count value
X encoder status	00/11	Encoder a and B signal line status
Y encoder status	00/11	Encoder a and B signal line status
X Hall	0/1	Hall state, hall is 1 at magnet position, otherwise it is 0
Y Hall	0/1	Hall state, hall is 1 at magnet position, otherwise it is 0
Color disc Hall	0/1	Hall state, hall is 1 at magnet position, otherwise it is 0
Pattern disc Hall	0/1	Hall state, hall is 1 at magnet position, otherwise it is 0
Focusing Hall	0/1	Hall state, hall is 1 at magnet position, otherwise it is 0

Usage record	Effect
Use times, use time, bright bubble time, etc	

System version	Effect
System hardware version, software version number	

explain:

1. when restoring factory settings, only the underlined parameters in the menu will be restored, and other parameters will not be automatically restored or reset.

【Send local parameters】 menu, you can send the parameter settings of underlined items in the machine to another lamp or multiple lamps through DMX data line to avoid repeated setting work. A reset will be generated when the received lamps receive the correct parameters.

3.3 Troubleshooting

	Resolvent
The lamp is not powered on and has no response at all	➤ Check the fuse for damage ➤ check whether the AC voltage is normal ➤ Switching power supply inside the lamp body may be damaged ➤ the internal control board of the lamp body may be damaged
Uncontrolled lamps	➤ check whether the DMX signal is normal. When it is normal, the DMX signal indicator on the display board will flash ➤ check whether the address code is set correctly ➤ check whether the channel mode is set correctly

	➤ Check whether the DMX signal line is too long, or whether there are too many lamps connected in series
Abnormal movement of XY axis	➤ The optocoupler sensor may be damaged or improperly installed, so that the original correct position can also be corrected. Set it to no in the menu [XY error correction enable] option. Or adjust the optocoupler sensor circuit board to the appropriate position, or replace the circuit board

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Best wishes

CEO Sophia