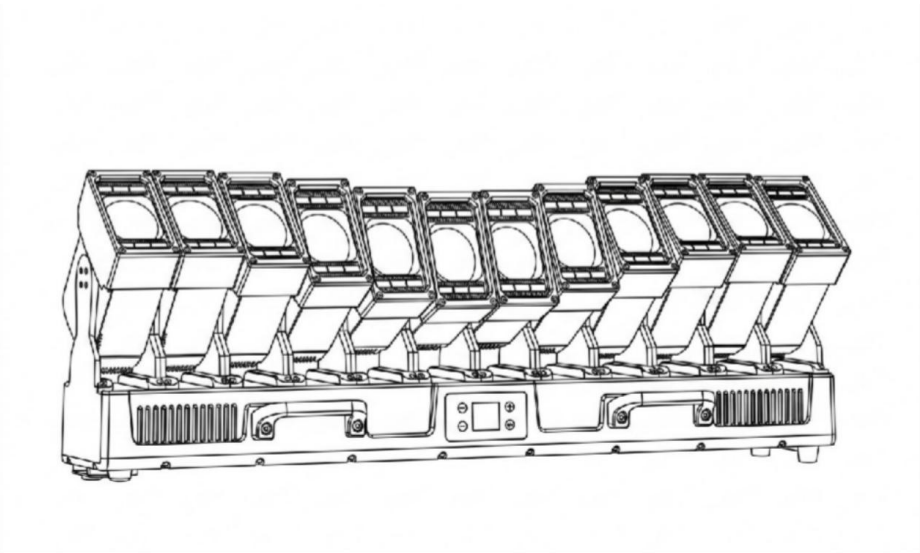
AQUA SNAKE BAR

WATERPROOF MOVING-HEAD BEAM LIGHT · IP RATED



MODEL	**AQUA SNAKE BAR 12x60**
MANUFACTURER	**FX Lighting**
PROTECTION	**IP65**
POWER	**1100 W**

USER'S GUIDE

(Read the instructions carefully and keep them for future reference)

FXLIGHTING
FX-LIGHTING.COM

Table of Contents

01 Precautions & Installation 03
1. Removal of Packaging 03
2. Safety Instructions 03
3. Product Notes 04
4. Lighting Installation 05
DMX-512 Linkage 07

02 Panel Operations 09
1. Lighting Panels 09
2. Main Menu Interface 10
2.1 System Setting 11
2.2 System Calibration 12
2.3 Manual Mode 13
2.4 System Reset 13
2.5 System Information 14

03 Channel Description & Technical Parameters 16
1. Channel Tables (26CH · 59CH · 128CH · 152CH · 182CH · 314CH · 329CH) 16
2. Technical Parameters 42

04 Common Faults & Usage Notes 43
1. Troubleshooting 43
2. Use Notes 45
3. RDM Usage Notes 46

01 Precautions & Installation

1. Removal of Packaging

For correct and safe use of this product, please read the instructions carefully before installation and use. This instruction contains important information about installation and application. Please strictly follow the instructions when installing and operating the product. Also, please keep this instruction properly.

The AQUA SNAKE BAR, designed and manufactured in strict compliance with CE standards, features the international-standard DMX512 signal protocol. It can be operated independently or in networked configurations, boasting rapid rotation speed, low noise levels, and robust functionality. Perfectly suited for small-to-medium venues including concerts, theaters, studios, nightclubs, and bars.

Please carefully remove the package. After the package is removed, check whether the product is damaged in the process of transportation and check whether the following contents are complete:

- AQUA SNAKE BAR light — 1 unit
- Signal line — 1
- Instruction manual — 1
- Power cord — 1
- Hanger — 1 set

> **ATTENTION**
> The product is not equipped with relevant maintenance parts. The maintenance and repair of the product can only be carried out by professionals! Please do not change this product without authorization, otherwise the product may be damaged, and the damage caused is not covered by the warranty. Non-professional operation may cause short circuit, burn or electric shock.

2. Safety Instructions

> **ATTENTION — HIGH VOLTAGE**
> Please be careful when operating this product. This product is high pressure. If it comes into contact with wires, you may be electrocuted!

This product is in good condition before leaving the factory. In order to maintain the good condition of this product and ensure safe operation, users should follow the safety matters and warnings in this manual.

> **IMPORTANT**
> Damage caused by failure to follow this manual is not covered by the warranty. The supplier shall not be held responsible for product problems arising therefrom.

If the product has been exposed to extreme unstable temperature environment (such as after transportation), do not immediately connect the power supply to the product, because the water droplets caused by temperature changes may damage the product. Please use the product after it has been restored to normal temperature.

This indoor product operates within a voltage range of 90–240V. Ensure the ground voltage remains below the product's safe tolerance level. The power plug must be plugged into a Class I socket with proper protection. The green or tea-colored conductor must be grounded.

- Please regularly inspect the product-grade power cord to ensure it is not folded, damaged, or scratched, and that it is not connected to other wires.
- Always unplug the power cord before using the product or cleaning it.
- Before using the product, please familiarize yourself with the operation function of the product. Do not let children or non-professionals touch the product.
- Please do not shake this product. Do not use brute force when installing or operating the product. Do not allow non-professionals to operate the product.
- The maintenance and repair of the product can only be carried out by professionals! Please do not change this product without authorization.

3. Product Notes

- If the product has been subjected to a large temperature difference (for example, after transportation), do not start the product immediately, because hot and cold shrink will damage the product. Please wait until the equipment reaches normal room temperature before starting the product.
- Pay attention to earthquake protection. Avoid strong collision during product installation.
- Please do not lift the entire product through the lamp head, because the mechanical parts of the equipment may be damaged.
- When choosing the installation location, make sure that the product is not exposed to overheating, too wet or too dusty. Do not place any wires on the ground, otherwise there may be a risk of electric shock.
- Before installing the product, ensure that the installation point is safe.
- Secure the product with a safety rope and check all screws for correct installation.
- Make sure the lens is in good condition. Replace the lens if it is damaged or scratched.
- It is recommended that the product be operated by technicians familiar with the product. Non-professionals are prohibited from operating the equipment.
- Take good care of the packaging materials for secondary transportation.
- Do not change the product without the guidance of the manufacturer or distributor.
- Any equipment failure caused by failure to operate the equipment as specified in the instructions is not covered by the warranty. Any accidents caused by short circuit, injury, electric shock, UV damage, bulb explosion, etc. are not covered by the warranty.

4. Lighting Installation

> **NOTE**
> For safety reasons, please install this product in a place away from the aisle, seating area, or within reach of the person.

This luminaire can be installed horizontally, hung at an angle, or inverted. When installing at an angle or upside down, special attention must be paid to the installation method. For fixed installation: before positioning the luminaire, ensure the stability of the installation site. When installing upside down, make sure the luminaire does not fall off the support frame.

Safety ropes must be securely threaded through support brackets and lamp handles to ensure proper suspension. To prevent lamp detachment or movement, pedestrians must remain below during installation and debugging. Regularly inspect the safety ropes for wear and check for loose hook screws. The manufacturer shall not be liable for any consequences resulting from lamp detachment due to unstable suspension systems.

- Before hanging this product, make sure that the installation point can bear 10 times the weight of this product.
- Products must be installed with double protection devices, such as safety ropes.
- When hanging, removing or repairing this product, do not stand under the installation point.
- Please ensure that the product should be installed at least 0.5 meters away from flammable materials.

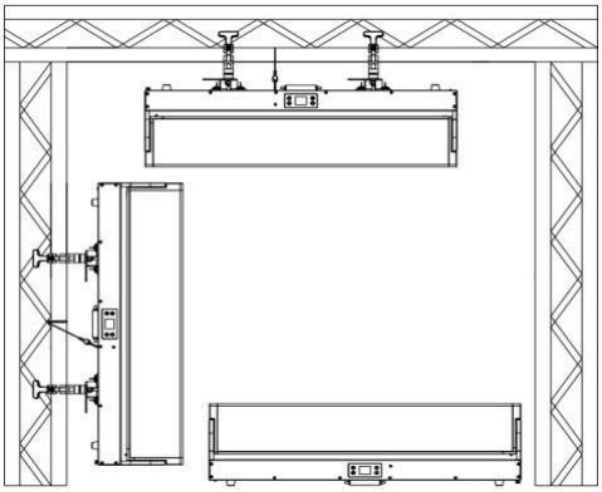


Figure 1 — Schematic diagram of lamp installation

Quick Lock Suspension

The bottom of this product has a special professional suspension part, including a quick lock suspension part and a safety rope suspension point. When suspending this product on a truss, remember to use the appropriate quick-release lock to secure it at the designated hanging point on the product's quick-release lock. Install an M10 screw to secure it in place. For added safety, attach a safety rope to the bottom's designated suspension point and fasten it to the truss.

No matter which type of suspension you choose, remember to use a safety cord. The bottom of the product has a special safety cord suspension point. Do not attach the safety cord to the handle position.

DMX-512 Linkage

This lighting system employs a DMX512 signal control protocol with parallel-connected fixtures. For multi-lamp configurations, dual-core shielded cables are recommended. Connect each fixture using its DMX signal ports (XLR connectors): INPUT and OUTPUT. Ensure all 3-pin XLR connectors are properly matched. A DMX signal terminal block is essential to prevent signal interference from electrical noise. The terminal block features a 120-ohm 1-watt resistor between pins 2 and 3 of the XLR connector, which should be installed on the last fixture's OUTPUT port.

Calculation Method of Lamp Starting Address Code

The starting address code of the current lamp is equal to (the starting address code of the previous lamp) + (the number of channels of the lamp).

- The starting address code value A001 of the first lamp.
- The basic channel number of the controller should be greater than or equal to the total number of lamp use channels.
- When using any controller, each luminaire must have its own starting address code. For example, if the first luminaire is set with A001 as its starting address code and has 16 channels, the second luminaire should be configured with A017, the third with A033, and so on.

Connect the male XLR connector of this product to the controller's signal output port, and the female connector to the signal input port on the back panel. You can connect multiple units in series. The required signal cables must be three-core shielded cables with XLR input and output connectors.

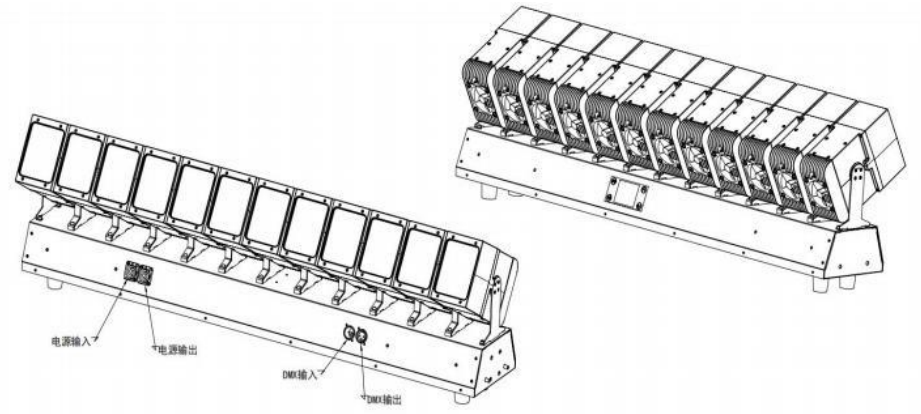


Figure 2 — DMX512 connection diagram

02 Panel Operations

1. Lighting Panels

The schematic diagram of the lamp panel is shown in Figure 3:

- Signal light: the upper DMX signal light is lit in blue when the lamp is connected to the control console, and does not light up in normal state; the lower fault error signal light is lit in red when the lamp reports an error, and does not light up in normal state.
- Temperature: the lamp board temperature (e.g. 30°C). If the display shows ---℃ it indicates abnormal temperature detection (broken circuit). If it shows ***℃ with a significant difference from ambient temperature, it could indicate a short circuit. The equipment must be repaired by a professional technician.
- Address code: displays the range 001–512.
- DMX mode: 512 mode.
- Keys: UP (up key), MENU (back button), ENTER (confirm key), DOWN (next key).

> **NOTE**
> Do not use sharp or pointed objects to click the display screen to prevent damage.

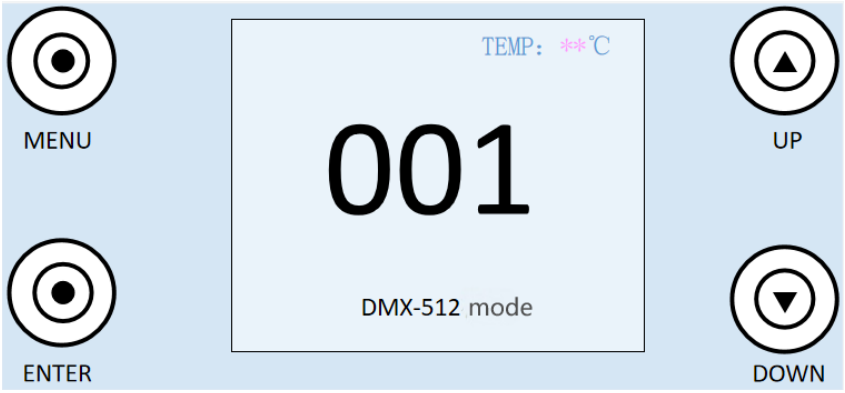


Figure 3 — Schematic diagram of four-key display panel

2. Main Menu Interface

The first menu interface contains 6 submenus. Select the corresponding submenus by "UP" key and "DOWN" key, and click "ENTER" key to enter the corresponding sub-menu interface.

- Address: enter the address code setting. The number of address codes can be increased or decreased by pressing the "UP" key and "DOWN" key.
- Settings: enter the system options, change the working mode of the lamp, working parameters and panel display settings.
- Manual mode: enter manual mode to control the function of the lamp (see the channel table for details).
- Calibration: enter a password to enter the system calibration mode.
- Reset: enter the system reset mode and control the bulb.
- Information: view system error correction, software and hardware version and other information.

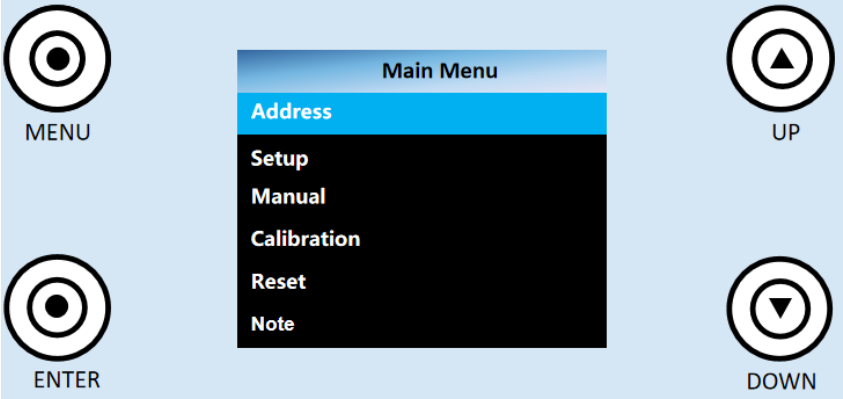


Figure 4 — Main menu / Determine the input window

2.1 System Setting

Enter the system setting, click "ENTER" key to select the settings that need to be modified, then select the changed content through "UP" and "DOWN" keys, and finally confirm with "ENTER" key to change the working mode, working parameters and display settings of the panel.

Option	Value	Explanation
Work pattern	DMX / Sound control / Self-walk 1 / Self-walk 2	DMX: console mode, receive DMX signal. Autonomous 1/2: runs automatically with built-in self-starting program. Voice-activated: runs a scene according to built-in program when a strong sound is detected.
Channel pattern	26CH 59CH 128CH 152CH 182CH 314CH 329CH	Channel mode selection.
Pixel reversal	Close / Open	Set the pixel direction. Close = not reverse, Open = opposite direction.
Vertical reversal	Close / Open	Set the Y-axis direction.
Reserve function 1	On / Off	Reserved.
Reserve function 2	On / Off	Reserved.
Signal retention	Close / Open	Close: no signal, motor and light source return to reset position. Open: no signal, keep the last frame of DMX data output.
Screen protection	Close / Open	Close: always on. Open: screen turned off at regular intervals in static environment.
Screen flip	Close / Open / Voluntarily	Close: facing forward. Open: reversal. Voluntarily: auto-rotate according to gravity.
Sync updates	Close / Open	Open: connect multiple lamps with DMX line, update synchronously in settings/calibration. (Unplug the DMX line connected to the console.)
Language	CN / EN	Interface language.
Lighting curve	Curve 1–4	1: straight line. 2: square law. 3: inverse square law. 4: S curve.
Coloration speed	Fast / Smoothing	Fast dimming / slow dimming.
LED number	Close / 1–12	Set the lamp head ID. Bend the Y-axis towards the screen until the red light is on, then the opposite direction until off — ID edited successfully.
Factory data reset	Cancel / Affirm	Affirm: return lamp parameters to factory settings.

2.2 System Calibration

Enter the password "6688" to enter the system calibration interface. The values can be modified by pressing the "UP" key and "DOWN" key to modify the power of the lamp and motor stroke parameters.

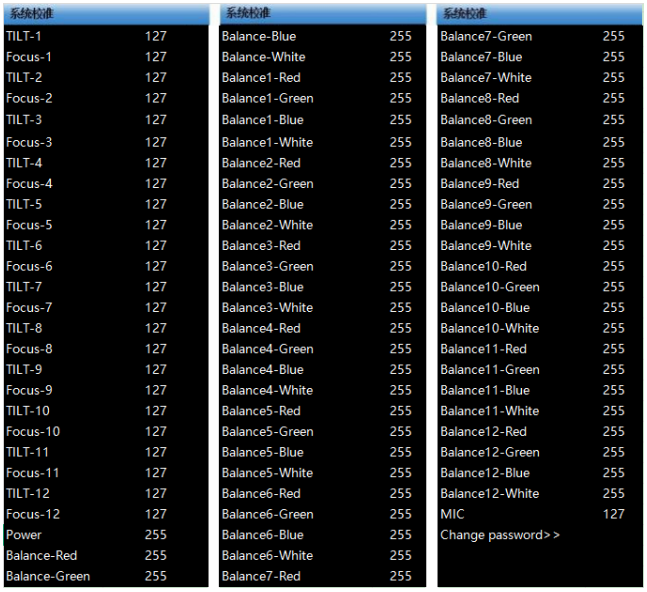


Figure 5/6 — System calibration interface

Option	Explanation
Initial position calibration	Adjust the reset position of Y-axis 1–12 motor and focus motor 1–12 to compensate for the error in hardware installation. Adjustment range: ±127 values (0 = no adjustment).
White balance	Adjust the white balance of LED1–12 red, green, blue and white. Adjustment range 0–255 (255 = no adjustment).
Power	Adjust the maximum power of the whole lamp. 255 indicates the maximum power.
Change password	Set the system calibration password.

2.3 Manual Mode

This interface is used to control the current lighting fixture (which does not receive DMX signals) and its corresponding channel. Refer to the channel table for details.

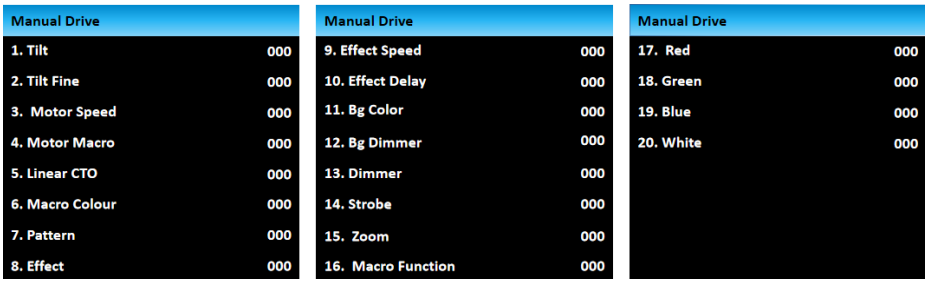


Figure 7 — Manual mode interface

2.4 System Reset

Click to enter the system reset mode and control the bulb. Options include: effect motor reset, effect pan reset except XY, scan motor reset (only XY axis reset), all motors reset, and light fixture reset.

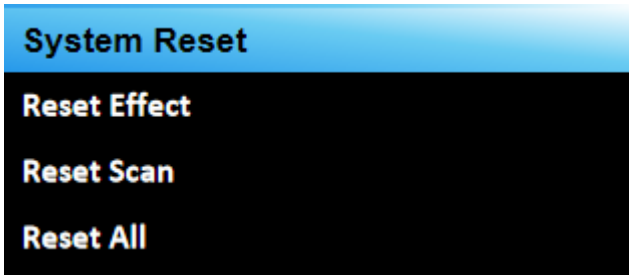


Figure 8 — System reset interface

2.5 System Information

Click to view the system error correction, software and hardware version and other information.

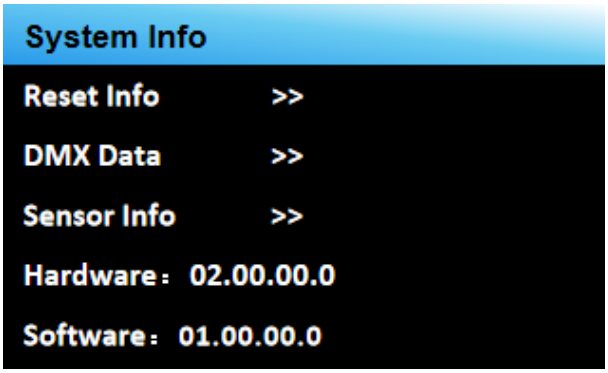


Figure 9 — System information interface

Option	Explanation
Reboot error message	1) IC1/IC2 communication failure (between light board and display board). 2) X/Y opto-coupler error. 3) Focus motor reset fails.
DMX data monitoring	Displays the channel values numerically for viewing.

Option	Explanation
Sensor information	Amplified Hall, Y-axis Hall, temperature 1–12 status (use up/down keys to turn pages).
Hardware version number	Display board version · Light board A version · Light board B version.
Software version number	Light fixture software version (display / light board A / light board B).

03 Channel Description & Technical Parameters

The AQUA SNAKE BAR supports seven channel modes. Each channel table lists the channel number, function, value range and description.

26CH Mode

CH	Function	Value	Description
1	Y axis 1-12	**000 - 255**	0-100%
2	Fine tune Y-axis 1-12	**000 - 255**	0-100%
3	Y-axis velocity	**000 - 255**	0-100%
4	Y-axis macro	**000 - 004**	NF · 005 - 255 · See the Y-axis macro chart
5	colour temperature		
0	NF	**001 - 255**	From 19,000K to 2,700K
6	Color Macro		
0	NF	**001 - 255**	See the color macro chart
7	pattern		
0	NF	**001 - 255**	Figure 1-255
8	Built-in LED effect	**000 - 015**	NF · 016 - 255 · Each of the eight values has an effect
9	Built-in LED effect speed	**000 - 127**	Fast or slow
128	cease	**129 - 255**	Slow to fast
10	LED built-in effect delay	**000 - 255**	speed
11	background color		
0	NF	**001 - 255**	See the color macro chart
12	Background color dimming	**000 - 255**	0-100%
13	aiming	**000 - 255**	0-100%
14	stroboflash	**000 - 019**	close · 020 - 255 · See the strobe chart
15	Scaling 1-12	**000 - 255**	0-100%
16	control	**000 - 009**	NF · 010 - 255 · See control chart
17	red	**000 - 255**	0-100%

CH	Function	Value	Description
18	green	**000 - 255**	0-100%
19	blue	**000 - 255**	0-100%
20	white	**000 - 255**	0-100%
21	Superglare	**0-19**	Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light · 170-184 · Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Flicker 4 · 245-255 · opening the light
22	Auxiliary light white	**000 - 255**	0-100%
23	Tertiary yellow	**000 - 255**	0-100%
24	Fuxing CTO	**000 - 67**	not have · 68-247 · Fuxing CTO · 248-255 · not have
25	Fill light effect	**0-7**	not have · 8-191 · Effect 1-23 (8 numbers per effect) · 192-255 · not have
26	Exposure speed	**0-127**	The effect jumps from slow to fast · 128-255 · The effect gradient goes from slow to fast · 59CH

59CH Mode

CH	Function	Value	Description
1	Y-axis 1	**000- 255**	0-100%
2	Fine tune the Y-axis 1	**000- 255**	0-100%
3	Y-axis 2	**000- 255**	0-100%
4	Fine tune Y-axis 2	**000- 255**	0-100%
5	Y axis 3	**000- 255**	0-100%
6	Fine tune Y-axis 3	**000- 255**	0-100%
7	Y axis 4	**000- 255**	0-100%
8	Fine-tuning the Y-axis 4	**000- 255**	0-100%
9	Y-axis 5	**000- 255**	0-100%
10	Fine tune Y-axis 5	**000- 255**	0-100%
11	Y-axis 6	**000- 255**	0-100%
12	Fine tune Y-axis 6	**000- 255**	0-100%
13	Y-axis 7	**000- 255**	0-100%
14	Fine tune Y-axis 7	**000- 255**	0-100%
15	Y-axis 8	**000- 255**	0-100%
16	Fine tune Y-axis 8	**000- 255**	0-100%
17	Y-axis 9	**000- 255**	0-100%
18	Fine tune Y-axis 9	**000- 255**	0-100%
19	Y axis 10	**000- 255**	0-100%
20	Fine tune Y-axis 10	**000- 255**	0-100%
21	Y axis 11	**000- 255**	0-100%
22	Fine tune Y-axis 11	**000- 255**	0-100%
23	Y axis 12	**000- 255**	0-100%
24	Fine tune Y-axis 12	**000- 255**	0-100%
25	Y-axis speed	**000- 255**	speed
26	Y axle	**000-004**	NF · 005- 255 · See the Y-axis macro chart
27	colour temperature		

CH	Function	Value	Description
0	NF	**001- 255**	From 19,000K to 2,700K
28	Color Macro		
0	NF	**001- 255**	See the color macro chart
29	pattern		
0	NF	**001- 002**	Figure 1-255
30	Built-in LED effect	**000- 015**	NF · 016- 255 · Each of the eight values has an effect · 000- 127 · Fast or slow
31	LED built-in speed		
128	cease	**129- 255**	Slow to fast
32	LED built-in effect delay	**000- 255**	speed
33	background color		
0	NF	**001- 255**	See the color macro chart
34	Background color dimming	**000- 255**	0-100%
35	aiming	**000- 255**	0-100%
36	stroboflash	**000- 019**	close · 020- 255 · See the strobe chart
37	Scaling 1	**000- 255**	0-100%
38	Scaling 2	**000- 255**	0-100%
39	Scaling 3	**000- 255**	0-100%
40	Scaling 4	**000- 255**	0-100%
41	Scaling down 5	**000- 255**	0-100%
42	Zoom 6	**000- 255**	0-100%
43	Scaling 7	**000- 255**	0-100%
44	Scaling 8	**000- 255**	0-100%
45	Scaling 9	**000- 255**	0-100%
46	Zoom in 10	**000- 255**	0-100%
47	Scaling 11	**000- 255**	0-100%
48	Scaling 12	**000- 255**	0-100%
49	control	**000- 009**	NF · 010- 255 · See control chart

CH	Function	Value	Description
50	Red and blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
51	Green, magenta	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
52	Blue Yellow	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
53	hoar	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0% · 0-19 · Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light
54	Superglare	**170-184**	Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Flicker 4 · 245-255 · opening the light
55	Auxiliary light white	**000 - 255**	0-100%
56	Tertiary yellow	**000 - 255**	0-100%
57	Fuxing CTO	**000 - 67**	not have · 68-247 · Fuxing CTO · 248-255 · not have · 0-7 · not have
58	Fill light effect	**8-191**	Effect 1-23 (8 numbers per effect) · 192-255 · not have
59	Exposure speed	**0-127**	The effect jumps from slow to fast · 128-255 · The effect gradient goes from slow to fast · 128CH

128CH Mode

CH	Function	Value	Description
1	Y-axis 1	**000- 255**	0-100%
2	Fine tune Y-axis 1	**000- 255**	0-100%
3	Y-axis 2	**000- 255**	0-100%
4	Fine tune Y-axis 2	**000- 255**	0-100%
5	Y axis 3	**000- 255**	0-100%
6	Fine tune Y-axis 3	**000- 255**	0-100%
7	Y axis 4	**000- 255**	0-100%
8	Fine-tuning the Y-axis 4	**000- 255**	0-100%
9	Y-axis 5	**000- 255**	0-100%
10	Fine tune Y-axis 5	**000- 255**	0-100%
11	Y-axis 6	**000- 255**	0-100%
12	Fine tune Y-axis 6	**000- 255**	0-100%
13	Y-axis 7	**000- 255**	0-100%
14	Fine tune Y-axis 7	**000- 255**	0-100%
15	Y axis 8	**000- 255**	0-100%
16	Fine tune Y-axis 8	**000- 255**	0-100% · 0017 · Y-axis 9 · 000- 255 · 0-100%
18	Fine tune Y-axis 9	**000- 255**	0-100%
19	Y axis 10	**000- 255**	0-100%
20	Fine tune Y-axis 10	**000- 255**	0-100%
21	Y axis 11	**000- 255**	0-100%
22	Fine tune Y-axis 11	**000- 255**	0-100%
23	Y axis 12	**000- 255**	0-100%
24	Fine tune Y-axis 12	**000- 255**	0-100%
25	Y-axis speed	**000- 255**	speed
26	Y axle	**000-004**	NF · 005- 255 · See the Y-axis macro chart
27	colour temperature		
0	NF	**001- 255**	From 19,000K to 2,700K

CH	Function	Value	Description
28	Color Macro		
0	NF	**001- 255**	See the color macro chart
29	pattern		
0	NF	**001- 002**	Figure 1-255
30	Built-in LED effect	**000- 015**	NF · 016- 255 · Each of the eight values has an effect · 000- 127 · Fast or slow
31	LED built-in speed		
128	cease	**129- 255**	Slow to fast
32	LED built-in effect delay	**000- 255**	speed
33	background color		
0	NF	**001- 255**	See the color macro chart
34	Background color dimming	**000- 255**	0-100% · - · Background color tweaks · 000- 255 · 0-100%
35	aiming	**000- 255**	0-100% · - · Fine tune dimming · 000- 255 · 0-100%
36	stroboflash	**000- 019**	close · 020- 255 · See the strobe chart · 0240030037 · Superglare · 0-19 · Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light · 170-184 · Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Framing 4 · 245-255 · opening the light
38	Scaling 1	**000- 255**	0-100%
39	Scaling 2	**000- 255**	0-100%
40	Scaling 3	**000- 255**	0-100%
41	Scaling 4	**000- 255**	0-100%
42	Scaling 5	**000- 255**	0-100%

CH	Function	Value	Description
43	Zoom 6	**000- 255**	0-100%
43	Scaling 7	**000- 255**	0-100%
45	Scaling 8	**000- 255**	0-100%
46	Scaling 9	**000- 255**	0-100%
47	Zoom in 10	**000- 255**	0-100%
48	Scaling 11	**000- 255**	0-100%
49	Scaling 12	**000- 255**	0-100%
50	control	**000- 009**	NF · 010- 255 · See control chart
51	red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
52	green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
53	blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
54	white	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
55	Auxiliary light white	**000- 255**	0-100%
56	Tertiary yellow	**000- 255**	0-100%
57	Red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
58	Green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
59	Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
60	White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
61	White auxiliary light 1	**000- 255**	0-100%
62	Auxiliary light yellow 1	**000- 255**	0-100% · ...
123	Red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
124	Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
125	Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
126	White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
127	Auxiliary light white 12	**000- 255**	0-100%
128	Auxiliary light yellow 12	**000- 255**	0-100% · 152CH

152CH Mode

CH	Function	Value	Description
1	Y-axis 1	**000- 255**	0-100%
2	Fine tune the Y-axis 1	**000- 255**	0-100%
3	Y-axis 2	**000- 255**	0-100%
4	Fine tune Y-axis 2	**000- 255**	0-100%
5	Y axis 3	**000- 255**	0-100%
6	Fine tune Y-axis 3	**000- 255**	0-100%
7	Y axis 4	**000- 255**	0-100%
8	Fine-tuning the Y-axis 4	**000- 255**	0-100%
9	Y-axis 5	**000- 255**	0-100%
10	Fine tune Y-axis 5	**000- 255**	0-100%
11	Y-axis 6	**000- 255**	0-100%
12	Fine tune Y-axis 6	**000- 255**	0-100%
13	Y-axis 7	**000- 255**	0-100%
14	Fine tune Y-axis 7	**000- 255**	0-100%
15	Y-axis 8	**000- 255**	0-100%
16	Fine tune Y-axis 8	**000- 255**	0-100% · 0017 · Y-axis 9 · 000- 255 · 0-100%
18	Fine tune Y-axis 9	**000- 255**	0-100%
19	Y axis 10	**000- 255**	0-100%
20	Fine tune Y-axis 10	**000- 255**	0-100%
21	Y axis 11	**000- 255**	0-100%
22	Fine tune Y-axis 11	**000- 255**	0-100%
23	Y axis 12	**000- 255**	0-100%
24	Fine tune Y-axis 12	**000- 255**	0-100%
25	Y-axis velocity	**000- 255**	speed
26	Y axle	**000-004**	NF · 005- 255 · See the Y-axis macro chart
27	colour temperature		
0	NF	**001- 255**	From 19,000K to 2,700K

CH	Function	Value	Description
28	Color Macro		
0	NF	**001- 255**	See the color macro chart
29	pattern		
0	NF	**001- 002**	Figure 1-255
30	Built-in LED effect	**000- 015**	NF · 016- 255 · Each of the eight values has an effect · 000- 127 · Fast to slow
31	LED built-in speed		
128	cease	**129- 255**	Slow to fast
32	LED built-in effect delay	**000- 255**	speed
33	background color		
0	NF	**001- 255**	See the color macro chart
34	Background color dimming	**000- 255**	0-100% · - · Background color tweaks · 000- 255 · 0-100%
35	aiming	**000- 255**	0-100% · - · Fine tune dimming · 000- 255 · 0-100%
36	stroboflash	**000- 019**	close · 020- 255 · See the strobe chart
37	Superglare	**0-19**	Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light
0	170-184	**Flicker 1**	185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Flicker 4 · 245-255 · opening the light
38	Scaling 1	**000- 255**	0-100%
39	Scaling 2	**000- 255**	0-100%
40	Scaling 3	**000- 255**	0-100%
41	Scaling 4	**000- 255**	0-100%
42	Scaling 5	**000- 255**	0-100%

CH	Function	Value	Description
43	Zoom 6	**000- 255**	0-100%
43	Scaling 7	**000- 255**	0-100%
45	Scaling 8	**000- 255**	0-100%
46	Scaling 9	**000- 255**	0-100%
47	Zoom in 10	**000- 255**	0-100%
48	Scaling 11	**000- 255**	0-100%
49	Scaling 12	**000- 255**	0-100%
50	control	**000- 009**	NF · 010- 255 · See control chart
51	red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
52	green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
53	blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
54	white	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
55	Auxiliary light white	**000- 255**	0-100%
56	Tertiary yellow	**000- 255**	0-100%
57	Red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
58	Green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
59	Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
60	White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
61	Auxiliary light white 1 up	**000- 255**	0-100%
62	Auxiliary light yellow 1 down	**000- 255**	0-100%
63	Auxiliary light white 1 up	**000- 255**	0-100%
64	Auxiliary light yellow 1 down	**000- 255**	0-100% · ...
145	Red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
146	Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
147	Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
148	White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%

CH	Function	Value	Description
149	Auxiliary light white 12 upper	**000- 255**	0-100%
150	Auxiliary light yellow 12 upper	**000- 255**	0-100%
151	Auxiliary light white 12 down	**000- 255**	0-100%
152	Auxiliary light yellow 12 down	**000- 255**	0-100% · 182CH

182CH Mode

CH	Function	Value	Description
1	Y axis 1	**000- 255**	0-100%
2	Fine tune the Y-axis 1	**000- 255**	0-100%
3	Y-axis 2	**000- 255**	0-100%
4	Fine tune Y-axis 2	**000- 255**	0-100%
5	Y axis 3	**000- 255**	0-100%
6	Fine tune Y-axis 3	**000- 255**	0-100%
7	Y axis 4	**000- 255**	0-100%
8	Fine tune Y-axis 4	**000- 255**	0-100%
9	Y-axis 5	**000- 255**	0-100%
10	Fine tune Y-axis 5	**000- 255**	0-100%
11	Y-axis 6	**000- 255**	0-100%
12	Fine tune Y-axis 6	**000- 255**	0-100%
13	Y-axis 7	**000- 255**	0-100%
14	Fine tune Y-axis 7	**000- 255**	0-100%
15	Y-axis 8	**000- 255**	0-100%
16	Fine tune Y-axis 8	**000- 255**	0-100%
17	Y-axis 9	**000- 255**	0-100%
18	Fine tune Y-axis 9	**000- 255**	0-100%
19	Y axis 10	**000- 255**	0-100%
20	Fine tune Y-axis 10	**000- 255**	0-100%
21	Y axis 11	**000- 255**	0-100%
22	Fine tune Y-axis 11	**000- 255**	0-100%
23	Y axis 12	**000- 255**	0-100%
24	Fine tune Y-axis 12	**000- 255**	0-100%
25	Y-axis speed	**000- 255**	speed
26	Y axle	**000-004**	NF · 005- 255 · See the Y-axis macro chart
27	colour temperature		
0	NF	**001- 255**	From 19,000K to 2,700K

CH	Function	Value	Description
28	Color Macro		
0	NF	**001- 255**	See the color macro chart
29	pattern		
0	NF	**001- 002**	Figure 1-255
30	Built-in LED effect	**000- 015**	NF · 016- 255 · Each of the eight values has an effect
31	LED built-in speed	**000- 127**	Fast or slow
128	cease	**129- 255**	Slow to fast
32	LED built-in effect delay	**000- 255**	speed
33	background color		
0	NF	**001- 255**	See the color macro chart
34	Background color dimming	**000- 255**	0-100%
35	Background color tweaks	**000- 255**	0-100%
36	aiming	**000- 255**	0-100%
37	Fine tune dimming	**000- 255**	0-100%
38	stroboflash	**000- 019**	close · 020- 255 · See the strobe chart
39	Superglare	**0-19**	Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off fast, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light · 170-184 · Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Flicker 4 · 245-255 · opening the light
40	Scaling 1	**000- 255**	0-100%
41	Scaling 2	**000- 255**	0-100%
42	Scaling 3	**000- 255**	0-100%

CH	Function	Value	Description
43	Scaling 4	**000- 255**	0-100%
44	Scaling 5	**000- 255**	0-100%
45	Zoom 6	**000- 255**	0-100%
46	Scaling 7	**000- 255**	0-100%
47	Scaling 8	**000- 255**	0-100%
48	Scaling 9	**000- 255**	0-100%
49	Zoom in 10	**000- 255**	0-100%
50	Scaling 11	**000- 255**	0-100%
51	Scaling 12	**000- 255**	0-100%
52	control	**000- 009**	NF · 010- 255 · See control chart
53	red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
54	Tinted red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
55	green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
56	Fine-tuning green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
57	blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
58	Tweezing Blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
59	hoar	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
60	Fine-tuning white	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
61	Auxiliary light white	**000- 255**	0-100%
62	Tertiary yellow	**000- 255**	0-100%
63	Red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
64	Fine-tuning red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
65	Green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
66	Fine-tuning green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
67	Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
68	Fine-tuning Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
69	White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
70	Fine-tuning White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
71	White auxiliary light 1	**000- 255**	0-100%

CH	Function	Value	Description
72	Auxiliary light yellow 1	**000- 255**	0-100% · ...
173	Red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
174	Fine-tuning red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
175	Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
176	Fine-tuning Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
177	Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
178	Fine-tuning Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
179	White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
180	Fine-tuning White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
181	Auxiliary light white 12	**000- 255**	0-100%
182	Auxiliary light yellow 12	**000- 255**	0-100% · 314CH

314CH Mode

CH	Function	Value	Description
1	control	**000-009**	010-255 · NF · See control chart
2	Y-axis speed	**000-255**	speed
3	Y-axis macro	**000-004**	NF · 005-255 · See the Y-axis macro chart
4	colour temperature		
0	NF	**001-255**	From 19,000K to 2,700K
5	Color Macro		
0	NF	**001-255**	See the color macro chart
6	pattern		
0	NF	**001- 002**	Figure 1-255
7	Built-in LED effect	**000- 015**	NF · 016- 225 · Each of the eight values has an effect
8	Built-in LED effect speed	**000- 127**	From fast to slow
128	cease	**129- 255**	From slow to fast
9	LED built-in effect delay	**000- 255**	speed
10	background color		
0	NF	**001- 255**	See the color macro chart
11	Background color dimming	**000- 255**	0-100%
12	Background color tweaks	**000- 255**	0-100%
13	stroboflash	**000- 019**	close · 020 - 255 · View the strobe chart

CH	Function	Value	Description
14	Superglare	**0-19**	Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light · 170-184 · Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Framing 4 · 245-255 · opening the light
15	Y-axis 1	**000- 255**	0-100%
16	Fine tune the Y-axis 1	**000- 255**	0-100%
17	Scaling 1	**000- 255**	0-100%
18	Dimming 1	**000- 255**	0-100%
19	Fine tune dimming 1	**000- 255**	0-100%
20	Red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
21	Fine-tuning red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
22	Green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
23	Fine-tuning green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
24	Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
25	Fine-tuning Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
26	White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
27	Fine-tuning White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
28	Auxiliary light white 1-1	**000- 255**	0-100%
29	Auxiliary light yellow 1-1	**000- 255**	0-100%
30	Auxiliary light white 1-2	**000- 255**	0-100%
31	Auxiliary light yellow 1-2	**000- 255**	0-100%

CH	Function	Value	Description
32	Auxiliary light white 1-3	**000- 255**	0-100%
33	Auxiliary light yellow 1-3	**000- 255**	0-100%
34	Auxiliary light white 1-4	**000- 255**	0-100%
35	Auxiliary light yellow 1-4	**000- 255**	0-100%
36	Auxiliary light white 1-5	**000- 255**	0-100%
37	Auxiliary light yellow 1-5	**000- 255**	0-100%
38	Auxiliary light white 1-6	**000- 255**	0-100%
39	Auxiliary light yellow 1-6	**000- 255**	0-100% · ...
290	Y axis 12	**000- 255**	0-100%
291	Fine tune Y-axis 12	**000- 255**	0-100%
292	Scaling 12	**000- 255**	0-100%
293	Dimming 12	**000- 255**	0-100%
294	Fine-tuning dimming 12	**000- 255**	0-100%
295	Red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
296	Fine-tuning red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
297	Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
298	Fine-tuning Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
299	Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
300	Fine-tuning Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
301	White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
302	Fine-tuning White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
303	Auxiliary light white 12-1	**000- 255**	0-100%
304	Auxiliary light yellow 12-1	**000- 255**	0-100%

CH	Function	Value	Description
305	Auxiliary light white 12-2	**000- 255**	0-100%
306	Auxiliary light yellow 12-2	**000- 255**	0-100%
307	Auxiliary light white 12-3	**000- 255**	0-100%
308	Auxiliary light yellow 12-3	**000- 255**	0-100%
309	Auxiliary light white 12-4	**000- 255**	0-100%
310	Auxiliary light yellow 12-4	**000- 255**	0-100%
311	Auxiliary light white 12-5	**000- 255**	0-100%
312	Auxiliary light yellow 12-5	**000- 255**	0-100%
313	Auxiliary light white 12-6	**000- 255**	0-100%
314	Auxiliary light yellow 12-6	**000- 255**	0-100% · 329CH

329CH Mode

CH	Function	Value	Description
1	Y-axis 1	**000- 255**	0-100%
2	Fine tune the Y-axis 1	**000- 255**	0-100%
3	Y-axis 2	**000- 255**	0-100%
4	Fine tune Y-axis 2	**000- 255**	0-100%
5	Y axis 3	**000- 255**	0-100%
6	Fine tune Y-axis 3	**000- 255**	0-100%
7	Y axis 4	**000- 255**	0-100%
8	Fine-tuning the Y-axis 4	**000- 255**	0-100%
9	Y-axis 5	**000- 255**	0-100%
10	Fine tune Y-axis 5	**000- 255**	0-100%
11	Y-axis 6	**000- 255**	0-100%
12	Fine tune Y-axis 6	**000- 255**	0-100%
13	Y-axis 7	**000- 255**	0-100%
14	Fine tune Y-axis 7	**000- 255**	0-100%
15	Y-axis 8	**000- 255**	0-100%
16	Fine tune Y-axis 8	**000- 255**	0-100%
17	Y-axis 9	**000- 255**	0-100%
18	Fine tune Y-axis 9	**000- 255**	0-100%
19	Y axis 10	**000- 255**	0-100%
20	Fine tune Y-axis 10	**000- 255**	0-100%
21	Y axis 11	**000- 255**	0-100%
22	Fine tune Y-axis 11	**000- 255**	0-100%
23	Y axis 12	**000- 255**	0-100%
24	Fine tune Y-axis 12	**000- 255**	0-100%
25	Y-axis velocity	**000- 255**	speed
26	Y axle	**000-004**	NF · 005- 255 · See the Y-axis macro chart
27	colour temperature		

CH	Function	Value	Description
0	NF	**001- 255**	From 19,000K to 2,700K
28	Color Macro		
0	NF	**001- 255**	See the color macro chart
29	pattern		
0	NF	**001- 002**	Figure 1-255
30	Built-in LED effect	**000- 015**	NF · 016- 255 · Each of the eight values has an effect
31	LED built-in speed	**000- 127**	Fast or slow
128	cease	**129- 255**	Slow to fast
32	LED built-in effect delay	**000- 255**	speed
33	background color		
0	NF	**001- 255**	See the color macro chart
34	Background color dimming	**000- 255**	0-100%
35	Background color tweaks	**000- 255**	0-100%
36	aiming	**000- 255**	0-100%
37	Fine tune dimming	**000- 255**	0-100%
38	stroboflash	**000- 019**	close · 020- 255 · See the strobe chart
39	Superglare	**0-19**	Blind spot · 20-24 · opening the light · 25-64 · The average frequency flickers from fast to slow · 65-70 · opening the light · 71-84 · Drive fast and turn off slowly, from slow to fast · 85-89 · opening the light · 90-104 · Slow to open and close, from slow to fast · 105-109 · opening the light · 110-124 · Random strobe · 125-129 · opening the light · 130-144 · Random quick open slow close · 145-150 · opening the light · 151-164 · Random slow open fast close · 165-169 · opening the light · 170-184 · Flicker 1 · 185-189 · opening the light · 190-204 · Flicker 2 · 205-209 · opening the light · 210-224 · Flicker 3 · 225-229 · opening the light · 230-244 · Framing 4 · 245-255 · opening the light
40	Scaling 1	**000- 255**	0-100%
41	Scaling 2	**000- 255**	0-100%

CH	Function	Value	Description
42	Scaling 3	**000- 255**	0-100%
43	Scaling 4	**000- 255**	0-100%
44	Scaling 5	**000- 255**	0-100%
45	Zoom 6	**000- 255**	0-100%
46	Scaling 7	**000- 255**	0-100%
47	Scaling 8	**000- 255**	0-100%
48	Scaling 9	**000- 255**	0-100%
49	Zoom in 10	**000- 255**	0-100%
50	Scaling 11	**000- 255**	0-100%
51	Scaling 12	**000- 255**	0-100%
52	control	**000- 009**	NF · 010- 255 · See control chart
53	red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
54	Tinted red	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
55	green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
56	Fine-tuning green	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
57	blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
58	Tweezing Blue	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
59	white	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
60	Fine-tuning white	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
61	Dimming 1	**000- 255**	0-100%
62	Fine tune dimming 1	**000- 255**	0-100%
63	Red 1 Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
64	Fine-tuning red 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
65	Green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
66	Fine-tuning green 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
67	Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
68	Fine-tuning Blue 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
69	White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
70	Fine-tuning White 1	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%

CH	Function	Value	Description
71	Auxiliary light white 1-1	**000- 255**	0-100%
72	Auxiliary light yellow 1-1	**000- 255**	0-100%
73	Auxiliary light white 1-2	**000- 255**	0-100%
74	Auxiliary light yellow 1-2	**000- 255**	0-100%
75	Auxiliary light white 1-3	**000- 255**	0-100%
76	Auxiliary light yellow 1-3	**000- 255**	0-100%
77	Auxiliary light white 1-4	**000- 255**	0-100%
78	Auxiliary light yellow 1-4	**000- 255**	0-100%
79	Auxiliary light white 1-5	**000- 255**	0-100%
80	Auxiliary light yellow 1-5	**000- 255**	0-100%
81	Auxiliary light white 1-6	**000- 255**	0-100%
82	Auxiliary light yellow 1-6	**000- 255**	0-100% · ...
303	Dimming 12	**000- 255**	0-100%
304	Fine-tuning dimming 12	**000- 255**	0-100%
305	Red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
306	Fine-tuning red 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
307	Green 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
308	Fine-tuning Green 2	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
309	Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
310	Fine-tuning Blue 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
311	White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%
312	Fine-tuning White 12	**000- 255**	RGBW mode: 0-100%/CMY mode: 100-0%

CH	Function	Value	Description
313	Auxiliary light white 12-1	**000- 255**	0-100%
314	Auxiliary light yellow 12-1	**000- 255**	0-100%
315	Auxiliary light white 12-2	**000- 255**	0-100%
316	Auxiliary light yellow 12-2	**000- 255**	0-100%
317	Auxiliary light white 12-3	**000- 255**	0-100%
318	Auxiliary light yellow 12-3	**000- 255**	0-100%
319	Auxiliary light white 12-4	**000- 255**	0-100%
320	Auxiliary light yellow 12-4	**000- 255**	0-100%
321	Auxiliary light white 12-5	**000- 255**	0-100%
322	Auxiliary light yellow 12-5	**000- 255**	0-100%
323	Auxiliary light white 12-6	**000- 255**	0-100%
324	Auxiliary light yellow 12-6	**000- 255**	0-100%
325	Auxiliary light white	**000- 255**	0-100%
326	Tertiary yellow	**000- 255**	0-100%
327	Fuxing CTO	**000 - 67**	not have · 68-247 · Fuxing CTO · 248-255 · not have
328	Fill light effect	**0-7**	not have · 8-191 · Effect 1-23 (8 numbers per effect) · 192-255 · not have
329	Exposure speed	**0-127**	The effect jumps from slow to fast · 128-255 · The effect gradient goes from slow to fast · Y-axis macro chart: · Y-axis macro · 000-004 · not have · 005-009 · Y Axis Macro 1 · 010-014 · Y Axis Macro 2 · · · · · · · · · …… · 250-254 · Y Axis Macro 50

CH	Function	Value	Description
255	Y Axis Macro 51	**remarks ：**	When the Y-axis macro is effective, the coarse adjustment of Y-axis 1 is to adjust the starting position of Y-axis macro, and the fine adjustment of Y-axis 1 is to adjust the swing amplitude of Y-axis macro. The speed of Y-axis motor is the speed of Y-axis macro (from slow to fast) · The effective value of Y-axis macro amplitude is 1-255 · Color Macro Chart: · Color Macro
0	not have	**001- 002**	White 2700K · 003- 004 · White 3200K · 005- 006 · White 4200K · 007- 008 · White 5600K · 009- 010 · White 8000K
11	Blue	**012- 048**	+ Green
49	Cyan	**050- 086**	-Blue
87	Green	**088- 124**	+ Red
125	Yellow	**126- 162**	-Green
163	Red	**164- 200**	+ Blue
201	Magenta	**202- 238**	-Red
239	Blue	**240- 247**	Color fade, fast to slow · 248-255 · Color snap, fast to slow · Frequency diagram: · stroboflash · 000-019 · Off · 020-024 · On · 025-064 · Strobe, fast to slow · 065-069 · On · 070-084 · Strobe 100-0%, fast to slow · 085-089 · on · 090-104 · Strobe 0-100%,fast to slow · 105-109 · On · 110-124 · Random strobe, fast to slow · 125-129 · On · 130-144 · Random strobe 100-0%, fast to slow · 145-149 · On · 150-164 · Random strobe 0-100%, fast to slow · 165-169 · On · 170-184 · Pulse strobe, fast to slow · 185-189 · On · 190-204 · Random pulse strobe, fast to slow · 205-209 · On · 210-224 · Strobe 0-100-0%, fast to slow · 225-229 · On · 230-244 · Random pulse strobe, fast to slow · 245-255 · On · control chart ： · reset · 000-054 · not have · 056-060 · Y-axis motor reset (keep 5S effective) · 061-065 · Scaling motor reset (keep 5S in effect) · 066-075 · Full reset (keep 5S in effect) · 076-255 · obligate · 2. Technical parameters:

Technical Parameters

Parameter	Value
Voltage	AC 100–240V ~ 50/60Hz
Power	1100 W
Main light	12 × four-in-one 60W LED lamp
Auxiliary light	4 × 21W dual-color light beads (white + gold)
Control mode	DMX512, self-walking, master-slave, sound control, with RDM function
Channels	26CH · 59CH · 128CH · 152CH · 182CH · 314CH · 329CH
Dimming	32-bit 0–100% linear dimming
Features	Single swing + staining + beam
Working temperature	−30°C ~ 50°C
Frequency response	1–30 Hz
Software upgrade	Upgrade software through DMX connection
Signal I/O	DMX512 Input/Output / Waterproof Power Connector
Protection rating	IP65
Appearance	Metal, black

04 Common Faults & Usage Notes

The lamp contains professional parts such as microcomputer circuit boards and high-voltage power supply. For your safety and product life, non-professionals should not remove the lamp and related accessories without authorization.

1. Troubleshooting

1) The bulb is not bright (except LED light source)

Possible cause: the bulb is not completely cooled or the bulb has reached its life.

- If the bulb is not completely cooled due to abnormal operation, cool the lamp body for more than 10 minutes to return to normal state, then start the power supply again.
- Check whether the bulb has reached its service life and replace with a new bulb.
- Check whether the bulb and light fixture circuit has leakage, loose or poor contact.

2) The beam appears dim

Possible cause: long use of the bulb or dirty light path.

- Check whether the bulb has reached its service life and replace with a new bulb.
- Check whether the optical parts or bulbs are clean, and clean and maintain regularly.

3) Pattern projection ambiguity

- Check whether the electronic focus channel value is appropriate for the current projection distance.

4) The lights work intermittently

Possible cause: the internal line enters the protection state.

- Check whether the fan is running normally or dirty, resulting in rising internal temperature.
- Check whether the internal temperature control switch is closed.
- Check whether the bulb has reached its service life and replace it with a new one.

5) The lamp is not controlled by the console after normal reset

Possible reasons: signal line fault or lamp parameter setting is not normal.

- Check the start address code and check the connection of DMX signal lines (whether the signal cable is intact, whether the connector is loose).
- Add a signal amplifier and 120-ohm terminal resistor.

6) The lamp cannot be started

Possible cause: power line is bad.

- Check whether the fuse on the power input socket is blown and replace the fuse.
- The circuit contact may be poor due to vibration during long-distance transportation.
- Check the input power supply, computer board and other plug-in devices.

2. Use Notes

- Check whether the local power supply meets the rated voltage requirements of the product, and whether the leakage protector and overcurrent protector meet the requirements of the load.
- Do not use a power line with a damaged insulation layer, and do not connect the power line to other conductors.
- The lamp adopts strong wind cooling, which is easy to accumulate dust. It must be cleaned once a month, especially the heat dissipation air outlet.
- When installing the lamp, the fixing screw must be tightened, and the safety cable should be added, and checked regularly.
- Any point on the surface of the lamp should be kept a minimum distance of 10 meters from any inflammable and explosive objects, and 2.5 meters away from the irradiated objects.
- The continuous working time of the lamp is recommended not to exceed 10 hours, and the interval between continuous starting should not be less than 10 minutes.
- The closing time of the switch valve should not exceed 5 minutes. If necessary, close the lamp using the console (light control channel).
- In order to ensure that multiple lamps can better comply with the scene effect, the lamps should not be in an incomplete current scene for more than 3 minutes.
- During use, if the lamp is abnormal, stop using the lamp in time to prevent other faults.

3. RDM Usage Notes

RDM, an extension of the DMX512-A protocol, is a Remote Device Management (RDM) standard. Unlike traditional DMX512 protocols that rely on RS-485 buses for unidirectional communication — a time-sharing, half-duplex protocol allowing only one port to transmit at any given time — implementing RDM requires careful attention to these key considerations:

- Use a console or host device that supports the RDM protocol.
- The bidirectional signal amplifier should be used. The traditional unidirectional signal amplifier is not suitable for the RDM protocol, because RDM requires feedback data, and a unidirectional amplifier will block the return data, resulting in the failure to search for lamps.
- All lamps must be set to DMX mode to ensure that only one host is on the signal line.
- An impedance matching resistor of 120 ohm must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is long, a differential signal can be used to reduce signal reflection and improve communication quality.
- When the lamp is controlled by DMX but cannot be searched by RDM, check the signal amplifier first, and then check whether lines 2 and 3 of the signal line are faulty.