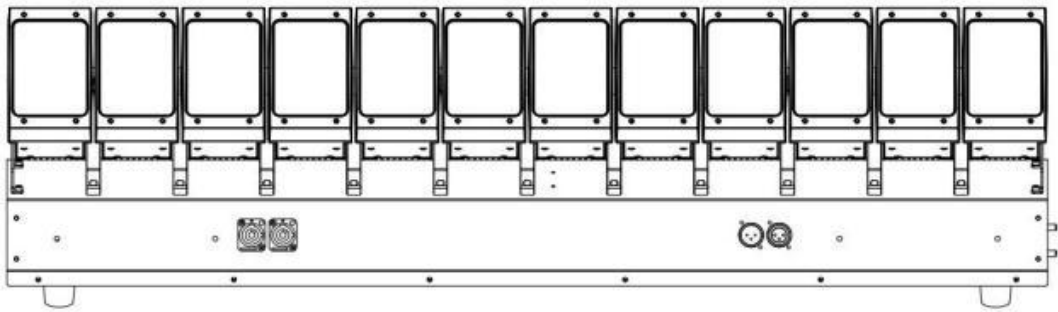


MEDUSA 1260 IP

12*60W RGBW+ LED STRIP



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Chapter 1 Precautions and Installation

1. Remove 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 MEDUSA 1260 IP, designed and manufactured in strict compliance with CE standards, features 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 be careful to 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.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Folding Clamps (optional)
4. One safety rope
5. One English user manual

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. In addition, non-professional operation may cause short circuit, burn or electric shock, etc.

2. Safety instructions

Attention! 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. Special care should be taken when connecting the power cord or related wiring. 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. Most damage is caused by unprofessional operation.

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. In addition, non-professional operation may cause short circuit, burn or electric shock, etc.

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 account 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, because many losses are caused by non-professional operation.
- 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. In addition, 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 device 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 device, ensure the stability of the installation site. When installing upside down, make sure the device 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.

Safety Considerations: Top-mounted installations require experienced personnel to calculate load requirements, select appropriate materials, and conduct periodic safety inspections of components and products. Do not attempt to install these systems yourself without proper knowledge. Improper handling may result in serious consequences such as personal injury.

Before powering on the product, make sure that all required hanging and installation steps have been completed.

Quick lock suspension: The bottom of this product has a special professional suspension part, including quick lock suspension part and safety rope suspension point (please refer to the figure below).

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.

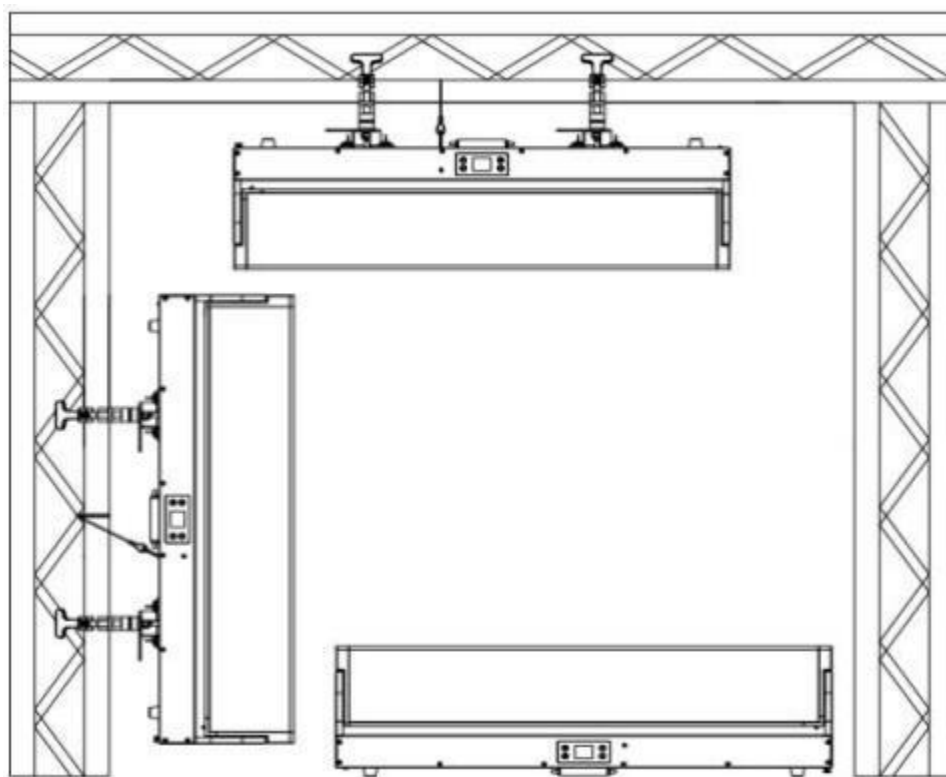


Figure 1 Schematic diagram of lamp installation

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. Please refer to the picture above and remember to use the specially provided safety cord suspension point. Do not attach the safety cord to the handle position.

DMX-512

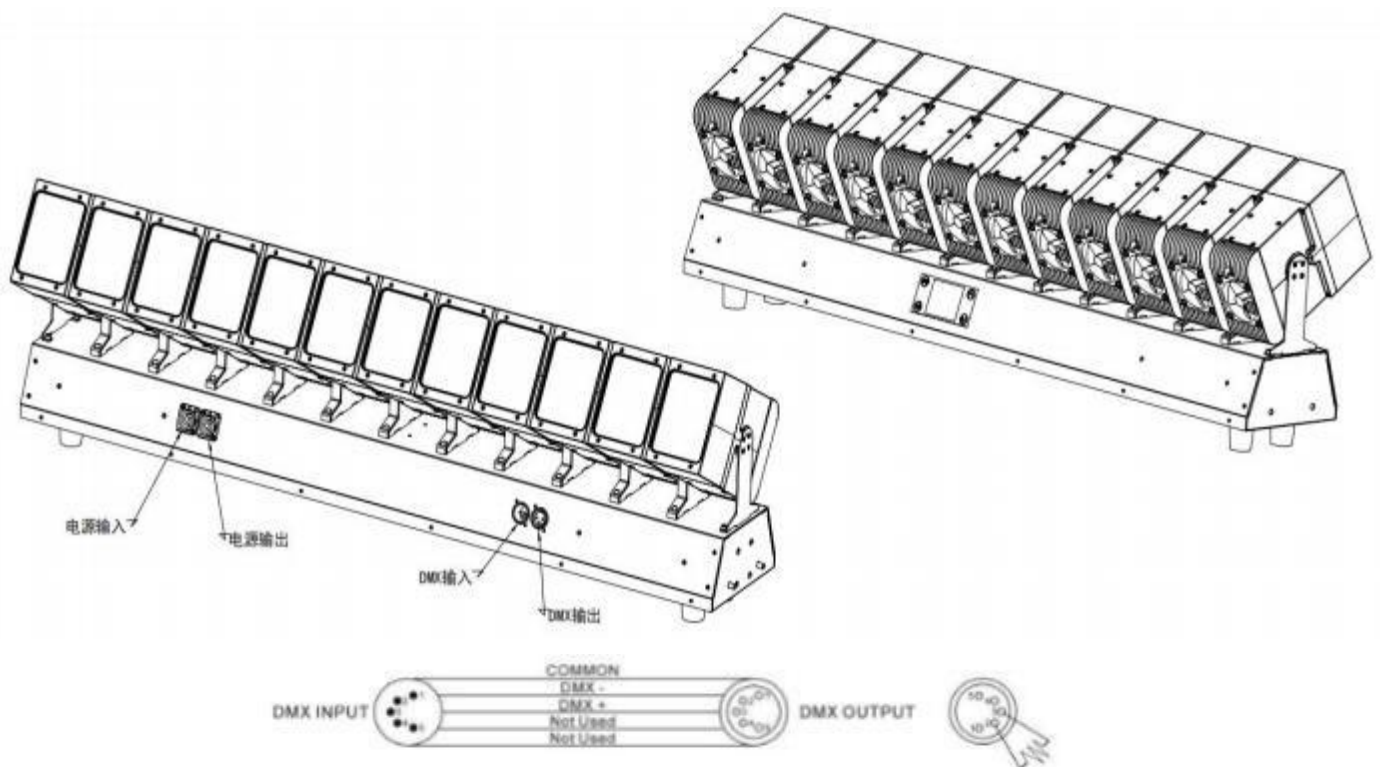
This lighting system employs a DMX512 signal control protocol with parallel-connected fixtures. For multi-lamp configurations, dual-core shielded cables are recommended. Connect each fixture using its DMX signal ports (XLR connectors): INPUT and OUTPUT. Ensure all 3-pin XLR connectors are properly matched. 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) Note:

- 1: The starting address code value A001 of the first lamp.
- 2: The basic channel number of the controller should be greater than or equal to the total number of lamp use channels.
3. Note: When using any controller, each device must have its own starting address code. For example, if the first device is set with A001 as its starting address code and has 16 channels, the second device should be configured with A017, the third with A033, and so on (this configuration method may vary depending on the specific control console).

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. Refer to the diagram below for details.



TECHNICAL PARAMETERS

12*LEDs (RGBW 4in1) 60W, 432*Golden+432*Cool White LED

Color Temperature (range): 2700 to 8000K

DYNAMIC EFFECTS Tilt:200°Tilt Range: 60°, 180°, 200°Dimmer: Electronic

Shutter/Strobe: Electronic, 0 to 30Hz

CONTROL

Control Protocol: DMX512/RDM, Optional Artnet DMX CH Model:CH29/56/144/216/262/282Power connections:

Seetronic True1 Power CON IN/OUT Data connections: 3pin(or 5pin) DMX IN/OUT

PHYSICAL

Protection Level:IP65

LIGHT SOURCE & OPTIC

Light source: 12*60W RGBW 4 IN 1 + WW& CW LED STRIP

Lifespan: 50000H

Color temperature: 2700 to 8000K

EFFECTS

Beam Angle Spot: 5.7°Beam Angle Flood: 26.8°Field Angle Spot: 9°Field Angle Flood: 33.9°Cutoff Angle Spot: 9.9°Cutoff Angle Flood: 36.3°Zoom Range: 5.7° to 36.3°Individual LED Control

DYNAMIC EFFECTS Tilt:200°Tilt Range: 60°, 180°, 200°Dimmer: Electronic

Shutter/Strobe: Electronic, 1 to 30Hz

CONTROL & PROGRAM

Control Protocol: DMX512/RDM, (Optional ArtnetDMX)

CH Model 1:CH26/59/128/152/182/314/329/179

CH Model 2:CH20/53/101/155/169A/169B/204

POWER SUPPLY

Input voltage: AC100-240V 50/60Hz

Consumed Power: 850w

Power connectors: Truecon in /out

DMX connectors: 3-Pin XLR IN/OUT (Optional 5Pin)

MOVEMENT

T position: Auto correction

T: 16bit scanning

BODY

Rate:IP65

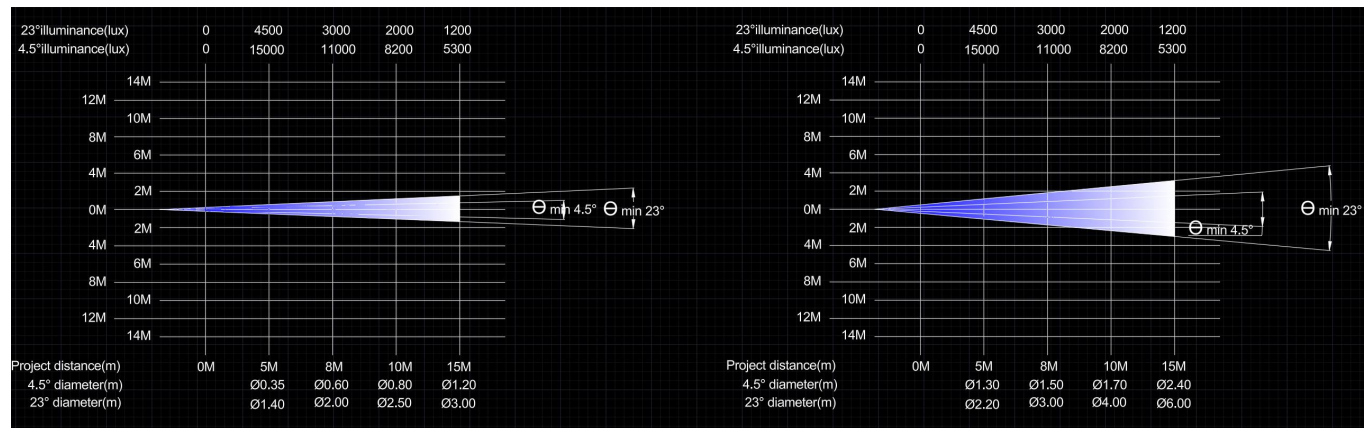
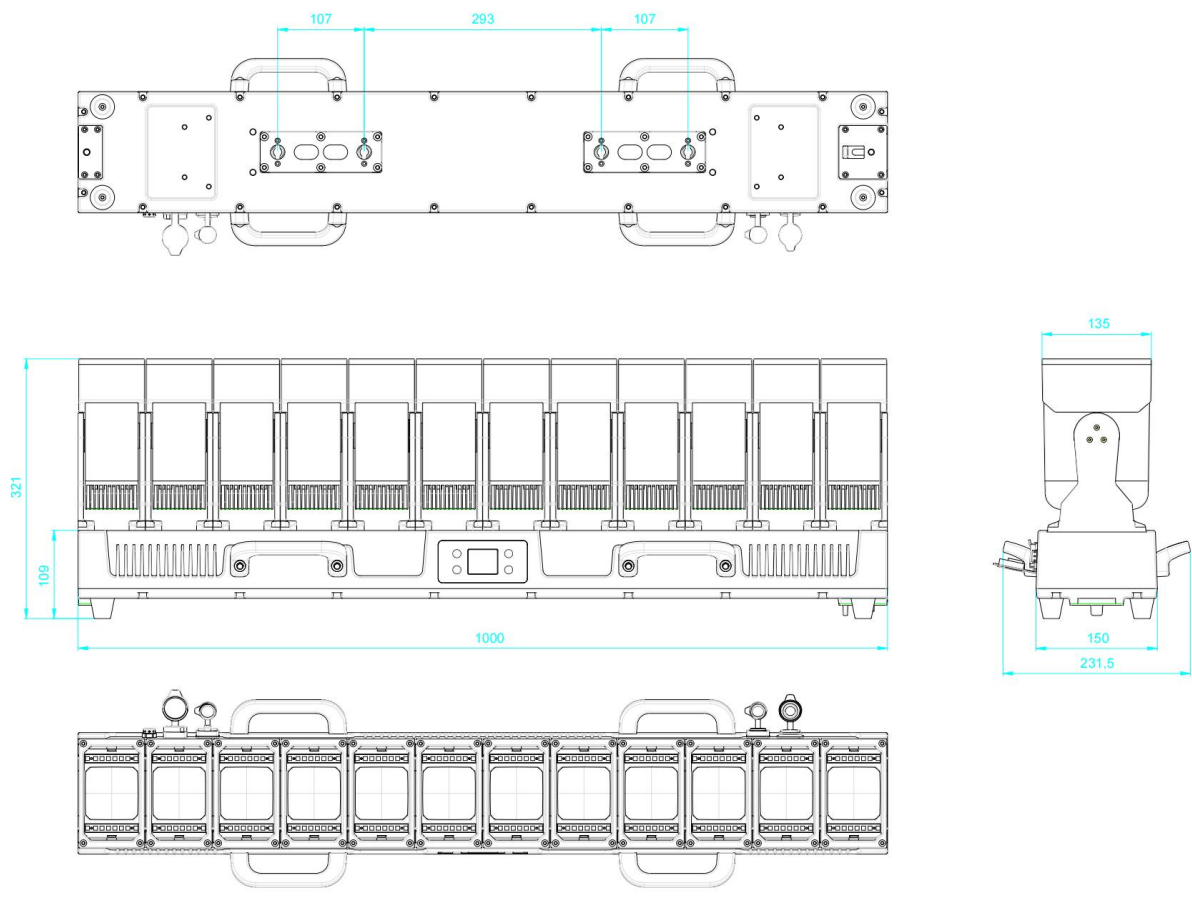
WEIGHT & SIZE

Fixture Size:1009*154*332mm

New Weight:28.5KG

Carton box 1in1:112*27*45cm/32KG

Flight case 2in1: 118*60*52cm/87KG



Chapter 2 Panel operations

1. Lighting panels

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

1) 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 error, and does not light up in normal state.

2) Temperature: As shown in the diagram, the lamp board temperature is 30°C. If the temperature display shows---°C, it indicates abnormal temperature detection in the device. This may be caused by a broken circuit in the temperature control connection wire. If the temperature display shows***°C and there is a significant difference from the ambient temperature, it could indicate a short circuit in the temperature control connection wire. The equipment must be repaired by a professional technician to resolve the issue before normal operation can resume.

3) Address code: can display the range 001-512, the address code shown on the figure is 001.

4) DMX mode: 512 mode.

5) Key: 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.

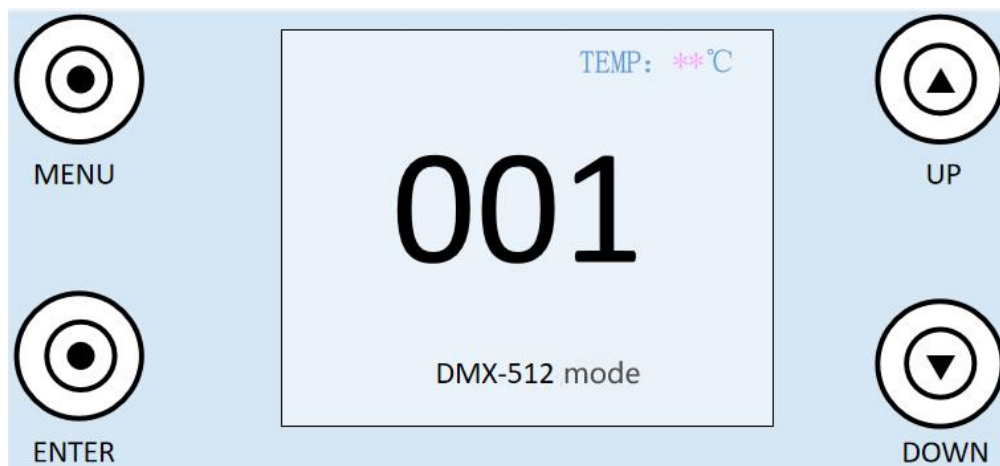


Figure 3 Schematic diagram of four key display panel

2. Menu home screen

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. The first menu interface is shown in Figure 4:

1) Address: Click to enter the address code setting. The number of address codes can be increased or decreased by pressing the "UP" key and "DOWN" key. The address codes displayed on the lamp panel will be updated synchronously.

2) Settings: Click to enter the system options, you can change the working mode of the lamp, working parameters and panel display Settings.

- 3) Manual mode: Click to enter manual mode, you can control the function of the lamp, please refer to the channel table for details.
- 4) Calibration: Click the input password to enter the system calibration mode.
- 5) Reset: Click to enter the system reset mode and control the bulb.
- 6) Information: Click to view the system error correction, software and hardware version and other information.

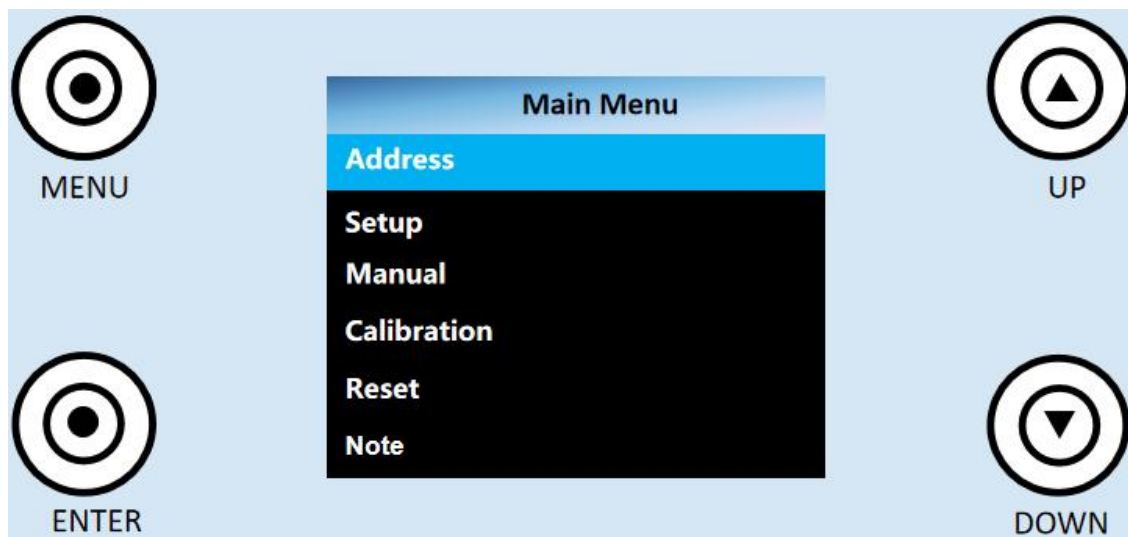


Figure 4 Determine the input window

2.1 System Setting

Run Mode	DMX	Signal Keep	OFF	Dimmer Speed	Smooth
Channel Mode	26CH	Screen Saver	ON	LED Set	OFF
Invert Pixel	OFF	Invert Screen	OFF	Load Default	
Invert Tilt	OFF	Update slave	OFF		
Reserve	ON	Language	EN		
Encoder Crc	ON	Dimmer Curve	Curve2		

Figure 5 System Settings window

The system setting interface is shown in Figure 5. 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. For details, see Table 1.

option	explain	
work pattern	Lighting mode: DMX/sound control/self walk 1/self walk 2	
	DMX pattern	Control console mode, receive DMX signal
	Autonomous mode 1	The lamp runs automatically with built-in self-starting program 1

	Self-drive mode 2	The lamp runs automatically with built-in self-starting program 2
	Voice-activated mode	When the lamp detects a strong sound, the lamp automatically runs a scene according to the built-in program, otherwise it remains the last scene
channel pattern	26CH 59CH 128CH 152CH 182CH 314CH 329CH 204CH 20CH 53CH 101CH 155CH 169CH-A 169CH-B 179CH	
Pixel reversal	Set the pixel direction	
	close	Not reverse
	open	opposite direction
Vertical reversal	Set the Y-axis direction	
	close	Not reverse
	open	opposite direction

Reserve function 1	On/off	
Reserve function 2	On/off	
Signal retention	The output status of the lamp when there is no DMX signal	
	close	No signal, so the motor and light source return to the position and state when the reset is complete
	open	No signal, keep the last frame of DMX data output
Screen Protection	Screen on screen time	
	close	Chang Liang
	open	In static environment, the screen is turned off at regular intervals
Screen flip	close	Screen facing forward
	open	Screen reversal
	voluntarily	The system can automatically rotate the screen according to the direction of gravity
Sync updates	Sync the setting parameters or calibration parameters of multiple lamps	
	close	Sync updates are disabled.
	open	After opening, connect multiple lamps with DMX line, and update information synchronously in the setting interface and calibration interface. (Note: Please unplug the DMX signal line connected to the console)
language	the Chinese language /EN	
Lighting curve	Curve 1	straight line
	Curve 2	Slope of square law curve
	Curve 3	Inverse square law curve
	Curve 4	S curve
Coloration speed	fast	Fast dimming
	smoothing	Slow dimming
LED number	Set the lamp head ID	
	close	Light ID editing is off
	1-12	Select the ID to be edited and click OK. The Y-axis will automatically go vertical into editing mode. At this time, bend the Y-axis towards the screen until the red light is on. Then bend the Y-axis in the opposite direction until the red light is off, indicating that the lamp head ID is successfully edited
factory data reset	The lamp parameters are returned to the factory setting	
	cancel	res sic stantibus
	affirm	Lights return to factory Settings

Table 1

primary menu	Secondary menu	Level 3 menu/parameters
address	001 - 512	(The number of channels added each time is reduced from the normal number)
System setup	running mode	DMX/ Self-Drive 1 / Self-Drive 2 / Voice-Controlled
	channel pattern	26CH 59CH 128CH 152CH 182CH 314CH 329CH 204CH 20CH 53CH 101CH 155CH 169CH-A 169CH-B 179CH
	Pixel reversal	On/off
	Vertical reversal	On/Off
	Reserve function 1	On/Off
	Reserve function 2	On/off
	Signal retention	On/off
	Screen Protection	On/Off
	Screen flip	On/off/Automatic
	Synced updates	On/off
	language	centre /EN
	Coloration speed	Fast / Smooth
	Lighting curve	Curve 1/ Curve 2/ Curve 3/ Curve 4
	LED number	Guan/1-12
	factory data reset	Confirmation/cancellation
manual mode	Current channel mode channel	0-255
system calibration	enter password	Lamp calibration
system reset	Effect motor reset	Effect pan reset except XY
	Scan motor reset	Only XY axis reset
	All motors reset	Light fixture reset
system info	Repositioning information	Device error message
	DMX data monitoring	Channel values of the receiving console
	sensor information	Sensor status information
	Hardware version	Display hardware version
	software release	Display software version

Table 2

2.2 System calibration

系统校准		系统校准		系统校准	
TILT-1	127	Balance-Blue	255	Balance7-Green	255
Focus-1	127	Balance-White	255	Balance7-Blue	255
TILT-2	127	Balance1-Red	255	Balance7-White	255
Focus-2	127	Balance1-Green	255	Balance8-Red	255
TILT-3	127	Balance1-Blue	255	Balance8-Green	255
Focus-3	127	Balance1-White	255	Balance8-Blue	255
TILT-4	127	Balance2-Red	255	Balance8-White	255
Focus-4	127	Balance2-Green	255	Balance9-Red	255
TILT-5	127	Balance2-Blue	255	Balance9-Green	255
Focus-5	127	Balance2-White	255	Balance9-Blue	255
TILT-6	127	Balance3-Red	255	Balance9-White	255
Focus-6	127	Balance3-Green	255	Balance10-Red	255
TILT-7	127	Balance3-Blue	255	Balance10-Green	255
Focus-7	127	Balance3-White	255	Balance10-Blue	255
TILT-8	127	Balance4-Red	255	Balance10-White	255
Focus-8	127	Balance4-Green	255	Balance11-Red	255
TILT-9	127	Balance4-Blue	255	Balance11-Green	255
Focus-9	127	Balance4-White	255	Balance11-Blue	255
TILT-10	127	Balance5-Red	255	Balance11-White	255
Focus-10	127	Balance5-Green	255	Balance12-Red	255
TILT-11	127	Balance5-Blue	255	Balance12-Green	255
Focus-11	127	Balance5-White	255	Balance12-Blue	255
TILT-12	127	Balance6-Red	255	Balance12-White	255
Focus-12	127	Balance6-Green	255	MIC	127
Power	255	Balance6-Blue	255	Change password>>	
Balance-Red	255	Balance6-White	255		
Balance-Green	255	Balance7-Red	255		

Figure 6 System calibration interface

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. The system calibration interface is shown in Figure 6, and the details are shown in Table 3.

option	explain
Initial position calibration	After entering the sub-interface, you can adjust the reset position of Y-axis 1-12 motor and focus motor 1-12 to compensate for the error in hardware installation. The adjustment range is +-127 values (representing up/down/left/right), and 127 means no adjustment.
white balance	After entering the sub-interface, you can adjust the white balance of LED1-12 red, green, blue and white. The adjustment range is 0~255, and 255 means no adjustment.
power	After entering the subinterface, you can adjust the maximum power of the whole lamp. 255 indicates the maximum power

change password	Set the system calibration password
-----------------	-------------------------------------

Table 3

2.3 Manual mode

Manual Drive		Manual Drive		Manual Drive	
1. Tilt	000	9. Effect Speed	000	17. Red	000
2. Tilt Fine	000	10. Effect Delay	000	18. Green	000
3. Motor Speed	000	11. Bg Color	000	19. Blue	000
4. Motor Macro	000	12. Bg Dimmer	000	20. White	000
5. Linear CTO	000	13. Dimmer	000		
6. Macro Colour	000	14. Strobe	000		
7. Pattern	000	15. Zoom	000		
8. Effect	000	16. Macro Function	000		

Figure 7 Manual mode interface

2.4 System reset

System Reset	
Reset Effect	
Reset Scan	
Reset All	

Figure 8 System reset interface

2.5 System information

System Info	
Reset Info	>>
DMX Data	>>
Sensor Info	>>
Hardware:	02.00.00.0
Software:	01.00.00.0

Figure 9 System information interface

Press "ENTER" to enter the information interface, select the information to be viewed through "UP" and "DOWN", and click "ENTER" to view the corresponding content. The system calibration interface is shown in Figure 8, and details are shown in Table 4.

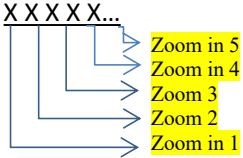
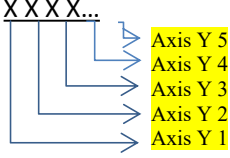
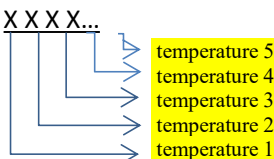
option	explain
Reboot error message	1) IC1/IC2 communication failure (failure of communication between light board and display board) 2) X/Y opto-coupler error 3) The focus motor reset fails
DMX data monitoring	This enters the sub-interface, where the channel values are displayed numerically for viewing
sensor information	1) Amplified Hall:  2) Y-axis Hall:  3) temperature 1-12:  Note: Use the up and down keys to turn pages
Hardware number	Hardware information of the lamp version <u>XX</u> . <u>XX</u> . <u>XX</u> . XX ↓ ↓ ↓ ↓ Display board version. Light board A version. Light board B version.
Software number	Light fixture software version version <u>XX</u> . <u>XX</u> . <u>XX</u> . XX ↓ ↓ ↓ ↓ Display board version. Light board A version. Light board B version.

Table 4

Chapter III channel description and technical parameters

1. Channel tables

26CH

channel	function	value	Set the percentage
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	000	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%

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

59 CH	function	value	Set the percentage
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	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
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

128 CH	function	value	Set the percentage
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%
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
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
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
		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%
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

152 CH	function	value	Set the percentage
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	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 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
		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%
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%
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

182 CH	function	value	Set the percentage
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	000	NF
		001- 255	From 19,000K to 2,700K
28	Color Macro	000	NF
		001- 255	See the color macro chart
29	pattern	000	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	000	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
		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

39	Superglare	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%
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%
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

channel	function	value	Set the percentage
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	000	NF
		001-255	From 19,000K to 2,700K
5	Color Macro	000	NF
		001-255	See the color macro chart
6	pattern	000	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	000	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
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%
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%
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

329 CH	function	value	Set the percentage
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	000	NF
		001- 255	From 19,000K to 2,700K
28	Color Macro	000	NF
		001- 255	See the color macro chart
29	pattern	000	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	000	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%
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%
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%
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

204 CH	function	value	Set Percentage
1	Y-axis 1	000- 255	0-100%
2	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	Tune Y-axis 3	000- 255	0-100%
7	Y-axis 4	000- 255	0-100%
8	Tune Y-axis 4	000- 255	0-100%
9	Y-axis 5	000- 255	0-100%
10	Tune Y-axis 5	000- 255	0-100%
11	Y-axis 6	000- 255	0-100%
12	Tune Y-axis	000- 255	0-100%

	6		
13	Y-axis 7	000- 255	0-100%
14	Tune Y-axis 7	000- 255	0-100%
15	Y-axis 8	000- 255	0-100%
16	Tune Y-axis 8	000- 255	0-100%
17	Y-axis 9	000- 255	0-100%
18	Tune Y-axis 9	000- 255	0-100%
19	Y-axis 10	000- 255	0-100%
20	Tune Y-axis 10	000- 255	0-100%
21	Y-axis 11	000- 255	0-100%
22	Tune Y-axis 11	000- 255	0-100%
23	Y-axis 12	000- 255	0-100%
24	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 19,000 K to 2,700 K
28	Color Macro	0	NF
		001- 255	See Color Macro Chart
29	pattern	0	NF
		001- 002	Pattern 1-255
30	Built-in LED Effect	000- 015	NF
		016- 255	One effect per set of 8 values
31	LED Built-in Effect Speed	000- 127	From Fast to Slow
		128	Stop
		129- 255	Slow to Fast
32	LED Built-in Effect Delay	000- 255	speed
33	background color	0	NF
		001- 255	See Color Macro Chart
34	Background Color Dimming	000- 255	0-100%
35	Background Color Adjustment	000- 255	0-100%
36	Dimming	000- 255	0-100%
37	Fine adjustment dimming	000- 255	0-100%
38	stroboflash	000- 019	close
		020- 255	See the stroboscopic chart
39	Background	0-19	Light Cclusion

	Light Flashing		
		20-24	opening the light
		25-64	The frequency-doubling strobe effect gradually slows down from its initial fast speed.
		65-70	opening the light
		71-84	Open quickly, close slowly; from slow to fast
		85-89	opening the light
		90-104	Slow start, fast stop; from slow to fast
		105-109	opening the light
		110-124	Random Strobismus
		125-129	opening the light
		130-144	Random quick open and slow close
		145-150	opening the light
		151-164	Random slow start and fast stop
		165-169	opening the light
		170-184	Stroboscopic Light 1
		185-189	opening the light
		190-204	Stroboscopic Light 2
		205-209	opening the light
		210-224	Stroboscopic Light 3
		225-229	opening the light
		230-244	Stroboscopic Light 4
		245-255	opening the light
40	Zoom 1	000- 255	0-100%
41	Zoom 2	000- 255	0-100%
42	Zoom 3	000- 255	0-100%
43	Zoom 4	000- 255	0-100%
44	Zoom 5	000- 255	0-100%
45	Zoom 6	000- 255	0-100%
46	Zoom 7	000- 255	0-100%
47	Zoom 8	000- 255	0-100%
48	Zoom 9	000- 255	0-100%
49	Zoom 10	000- 255	0-100%
50	Zoom 11	000- 255	0-100%
51	Zoom 12	000- 255	0-100%
52	control	000- 009	NF
		010- 255	See the control chart
53	red	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
54	Tune 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-tune Green	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
57	blue	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
58	Tune Blue	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
59	hoar	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
60	Tune White	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
61	White fill light	000- 255	0-100%
62	Secondary	000- 255	0-100%

	Light Yellow		
63	Red 1	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
64	Tune 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-tune 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	Tune 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	Tune White 1	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
71	Backlight White 1_1	000- 255	0-100%
72	Backlight Yellow 1_1	000- 255	0-100%
73	Backlight White 1_2	000- 255	0-100%
74	Background Light Yellow 1_2	000- 255	0-100%
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195	Red 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
196	Tune Red 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
197	Green 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
198	Fine-tune Green 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
199	Blue 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
200	Tune Blue 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
201	White 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
202	Tune White 12	000- 255	RGBW mode: 0–100% / CMY mode: 100–0%
203	Backlight White 12	000- 255	0-100%
204	Backlight Yellow 12	000- 255	0-100%

53 CH	101 CH	155 CH	179 CH	function	DMX numeric value	description
1	1	1	1	Tilt 1	000 - 255	0-100%
2	2	2	2	Fine tilt 1	000 - 255	0-100%
3	3	3	3	Tilt 2	000 - 255	0-100%
4	4	4	4	Fine tilt 2	000 - 255	0-100%
5	5	5	5	Tilt 3	000 - 255	0-100%
6	6	6	6	Fine tilt 3	000 - 255	0-100%
7	7	7	7	Tilt 4	000 - 255	0-100%
8	8	8	8	Fine tilt 4	000 - 255	0-100%
9	9	9	9	Tilt 5	000 - 255	0-100%
10	10	10	10	Fine tilt 5	000 - 255	0-100%
11	11	11	11	Tilt 6	000 - 255	0-100%
12	12	12	12	Fine tilt 6	000 - 255	0-100%
13	13	13	13	Tilt 7	000 - 255	0-100%
14	14	14	14	Fine tilt 7	000 - 255	0-100%
15	15	15	15	Tilt 8	000 - 255	0-100%
16	16	16	16	Fine tilt 8	000 - 255	0-100%
17	17	17	17	Tilt 9	000 - 255	0-100%
18	18	18	18	Fine tilt 9	000 - 255	0-100%
19	19	19	19	Tilt 10	000 - 255	0-100%
20	20	20	20	Fine tilt 10	000 - 255	0-100%
21	21	21	21	Tilt 11	000 - 255	0-100%
22	22	22	22	Fine tilt 11	000 - 255	0-100%
23	23	23	23	Tilt 12	000 - 255	0-100%
24	24	24	24	Fine tilt 12	000 - 255	0-100%
25	25	25	25	Tilt speed	000 - 255	Fast to slow
26	26	26	26	Tilt macro	000 - 004	No function
					005 - 255	see Tilt Macro
27	27	27	27	CTC	000	No function
					001 - 255	From 19000K to 2700K
28	28	28	28	Color macro	000	No function
					001 - 255	see Color Chart

29	29	29	29	Pattern (see Patterns)	000	No function
					001 - 002	Pattern 1-255
30	30	30	30	LED built-in	000 - 015	No function
					016 - 255	see LED Macro
31	31	31	31	LED built-in speed	000 - 127	Fast to slow
					128	Stop
					129 - 255	Slow to fast
32	32	32	32	LED built-in delay	000 - 255	Fast to slow
33	33	33	33	Background color	000	No function
					001 - 255	see Color Chart
34	34	34	34	Background color dimmer	000 - 255	0-100%
-	-	35	35	Background color fine dimmer	000 - 255	0-100%
35	35	36	36	Dimmer	000 - 255	0-100%
-	-	37	37	Fine dimmer	000 - 255	0-100%
36	36	38	38	Strobe	000 - 019	Off
					020 - 255	see Strobe Settings
37	37	39	39	Zoom 1	000 - 255	0-100%
38	38	40	40	Zoom 2	000 - 255	0-100%
39	39	41	41	Zoom 3	000 - 255	0-100%
40	40	42	42	Zoom 4	000 - 255	0-100%
41	41	43	43	Zoom 5	000 - 255	0-100%
42	42	44	44	Zoom 6	000 - 255	0-100%
43	43	45	45	Zoom 7	000 - 255	0-100%
44	44	46	46	Zoom 8	000 - 255	0-100%
45	45	47	47	Zoom 9	000 - 255	0-100%
46	46	48	48	Zoom 10	000 - 255	0-100%
47	47	49	49	Zoom 11	000 - 255	0-100%
48	48	50	50	Zoom 12	000 - 255	0-100%
49	49	51	51	Control	000 - 009	No function
					010 - 255	see Control Settings
50	50	52	52	Red Cyan	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

-	-	53	53	Fine red Fine cyan	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
51	51	54	54	Green Magenta	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	55	55	Fine green Fine magenta	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
52	52	56	56	Blue Yellow	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	57	57	Fine blue Fine yellow	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
53	53	58	58	White	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	59	59	Fine white	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	60	Dimmer 1	000 - 255	0-100%
-	-	-	61	Fine dimmer 1	000 - 255	0-100%
-	54	60	62	Red 1 Cyan 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	61	63	Fine red 1 Fine cyan 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	55	62	64	Green 1 Magenta 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	63	65	Fine green 1 Fine magenta 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	56	64	66	Blue 1 Yellow 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	65	67	Fine blue 1 Fine yellow 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	57	66	68	White 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	67	69	Fine white 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	70	Dimmer 2	000 - 255	0-100%
-	-	-	71	Fine dimmer 2	000 - 255	0-100%
-	58	68	72	Red 2 Cyan 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	69	73	Fine red 2 Fine cyan 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	59	70	74	Green 2 Magenta 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	71	75	Fine green 2 Fine magenta 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	60	72	76	Blue 2 Yellow 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	73	77	Fine blue 2 Fine yellow 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	61	74	78	White 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	75	79	Fine white 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	80	Dimmer 3	000 - 255	0-100%
-	-	-	81	Fine dimmer 3	000 - 255	0-100%
-	62	76	82	Red 3 Cyan3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	77	83	Fine red 3 Fine cyan 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

-	63	78	84	Green 3 Magenta 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	79	85	Fine green 3 Fine magenta 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	64	80	86	Blue 3 Yellow 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	81	87	Fine blue 3 Fine yellow 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	65	82	88	White 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	83	89	Fine white 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	90	Dimmer 4	000 - 255	0-100%
-	-	-	91	Fine dimmer 4	000 - 255	0-100%
-	66	84	92	Red 4 Cyan 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	85	93	Fine red 4 Fine cyan 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	67	86	94	Green 4 Magenta 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	87	95	Fine Green 4 Fine Magenta 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	68	88	96	Blue 4 Yellow 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	89	97	Fine blue 4 Fine yellow 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	69	90	98	White 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	91	99	Fine white 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	100	Dimmer 5	000 - 255	0-100%
-	-	-	101	Fine dimmer 5	000 - 255	0-100%
-	70	92	102	Red 5 Cyan 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	93	103	Fine red 5 Fine cyan 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	71	94	104	Green 5 Magenta 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	95	105	Fine green 5 Fine magenta 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	72	96	106	Blue 5 Yellow 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	97	107	Fine blue 5 Fine yellow 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	73	98	108	White 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	99	109	Fine white 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	110	Dimmer 6	000 - 255	0-100%
-	-	-	111	Fine dimmer 6	000 - 255	0-100%
-	74	100	112	Red 6 Cyan 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	101	113	Fine red 6 Fine cyan 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	75	102	114	Green 6 Magenta 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

-	-	103	115	Fine green 6 Fine magenta 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	76	104	116	Blue 6 Yellow 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	105	117	Fine blue 6 Fine yellow 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	77	106	118	White 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	107	119	Fine white 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	120	Dimmer 7	000 - 255	0-100%
-	-	-	121	Fine dimmer 7	000 - 255	0-100%
-	78	108	122	Red 7 Cyan 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	109	123	Fine red 7 Fine cyan 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	79	110	124	Green 7 Magenta7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	111	125	Fine green 7 Fine magenta 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	80	112	126	Blue7 Yellow 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	113	127	Fine blue 7 Fine yellow 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	81	114	128	White 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	115	129	Fine white 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	130	Dimmer 8	000 - 255	0-100%
-	-	-	131	Fine dimmer 8	000 - 255	0-100%
-	82	116	132	Red 8 Cyan 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	117	133	Fine red 8 Fine cyan 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	83	118	134	Green 8 Magenta 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	119	135	Fine green 8 Fine magenta 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	84	120	136	Blue 8 Yellow 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	121	137	Fine blue 8 Fine yellow 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	85	122	138	White 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	123	139	Fine white 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	140	Dimmer 9	000 - 255	0-100%
-	-	-	141	Fine dimmer 9	000 - 255	0-100%
-	86	124	142	Red 9 Cyan 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	125	143	Fine red 9 Fine cyan 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	87	126	144	Green 9 Magenta 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	127	145	Fine green 9 Fine magenta 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	88	128	146	Blue9 Yellow 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

-	-	129	147	Fine blue 9 Fine yellow 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	89	130	148	White 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	131	149	Fine white 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	150	Dimmer 10	000 - 255	0-100%
-			151	Fine dimmer 10	000 - 255	0-100%
-	90	132	152	Red 10 Cyan 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-		133	153	Fine red 10 Fine cyan 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	91	134	154	Green 10 Magenta 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-		135	155	Fine green10 Fine magenta10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	92	136	156	Blue 10 Yellow10	000 - 255	RBW Mode:0-100%/CMY Mode:100-0%
-		137	157	Fine blue 10 Fine yellow 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	93	138	158	White 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	139	159	Fine white 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	160	Dimmer 11	000 - 255	0-100%
-	-	-	161	Fine dimmer 11	000 - 255	0-100%
-	94	140	162	Red 11 Cyan 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	141	163	Fine red 11 Fine cyan 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	95	142	164	Green11 Magenta 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	143	165	Fine green11 Fine magenta11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	96	144	166	Blue 11 Yellow 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	145	167	Fine blue 11 Fine yellow 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	97	146	168	White 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	147	169	Fine white 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	-	170	Dimmer 12	000 - 255	0-100%
-	-	-	171	Fine dimmer 12	000 - 255	0-100%
-	98	148	172	Red 12 Cyan 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	149	173	Fine red 12 Fine cyan 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	99	150	174	Green 12 Magenta 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	151	175	Fine green12 Fine magenta12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

-	100	152	176	Blue 12 Yellow 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	153	177	Fine blue 12 Fine yellow 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	101	154	178	White 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
-	-	155	179	Fine White 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

169CH-A	function	DMX numeric value	description
1	Control	000 - 009	No function
		010 - 255	see Control Settings
2	Tilt speed	000 - 255	Fast to slow
3	Tilt macro	000 - 004	No function
		005 - 255	see Tilt Macro
4	CTC	000	No function
		001 - 255	From 19000K to 2700K
5	Color macro	000	No function
		001 - 255	see Color Chart
6	Pattern (see Patterns)	000	No function
		001 - 002	Pattern 1-255
7	LED built-in	000 - 015	No function
		016 - 225	see LED Macro
8	LED built-in speed	000 - 127	Fast to slowt
		128	stop
		129 - 255	slow to fas
9	LED built-in delay	000 - 255	Fast to slow
10	Background color	000	No function
		001 - 255	see Color Chart
11	Background color dimmer	000 - 255	0-100%
12	Background color fine dimmer	000 - 255	0-100%
13	Strobe	000 - 019	Off
		020 - 255	see Strobe Settings
14	Tilt 1	000 - 255	0-100%
15	Fine tilt 1	000 - 255	0-100%

16	Zoom 1	000 - 255	0-100%
17	Dimmer 1	000 - 255	0-100%
18	Fine dimmer 1	000 - 255	0-100%
19	Red 1 Cyan 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
20	Fine red 1 Fine cyan 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
21	Green 1 Magenta 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
22	Fine green 1 Fine magenta 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
23	Blue 1 Yellow 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
24	Fine blue 1 Fine yellow 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
25	White 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
26	Fine white 1	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
27	Tilt 2	000 - 255	0-100%
28	Fine tilt 2	000 - 255	0-100%
29	Zoom 2	000 - 255	0-100%
30	Dimmer 2	000 - 255	0-100%
31	Fine dimmer2	000 - 255	0-100%
32	Red 2 Cyan 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
33	Fine red 2 Fine cyan 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
34	Green 2 Magenta 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
35	Fine green 2 Fine magenta 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
36	Blue 2 Yellow 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
37	Fine blue 2 Fine yellow 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
38	White 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
39	Fine white 2	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
40	Tilt 3	000 - 255	0-100%
41	Fine tilt 3	000 - 255	0-100%
42	Zoom 3	000 - 255	0-100%
43	Dimmer 3	000 - 255	0-100%
44	Fine dimmer 3	000 - 255	0-100%
45	Red 3 Cyan 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
46	Fine red 3 Fine cyan 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
47	Green 3 Magenta 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

48	Fine green 3 Fine magenta 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
49	Blue 3 Yellow 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
50	Fine blue 3 Fine yellow 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
51	White 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
52	Fine white 3	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
53	Tilt 4	000 - 255	0-100%
54	Fine tilt 4	000 - 255	0-100%
55	Zoom 4	000 - 255	0-100%
56	Dimmer 4	000 - 255	0-100%
57	Fine dimmer 4	000 - 255	0-100%
58	Red 4 Cyan 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
59	Fine red 4 Fine cyan 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
60	Green 4 Magenta 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
61	Fine green 4 Fine magenta 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
62	Blue 4 Yellow 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
63	Fine blue 4 Fine yellow 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
64	White 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
65	Fine white 4	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
66	Tilt 5	000 - 255	0-100%
67	Fine tilt 5	000 - 255	0-100%
68	Zoom 5	000 - 255	0-100%
69	Dimmer 5	000 - 255	0-100%
70	Fine dimmer 5	000 - 255	0-100%
71	Red 5 Cyan 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
72	Fine red 5 Fine cyan 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
73	Green 5 Magenta 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
74	Fine green 5 Fine magenta 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
75	Blue 5 Yellow 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
76	Fine blue 5 Fine yellow 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
77	White 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
78	Fine white 5	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
79	Tilt 6	000 - 255	0-100%

80	Fine tilt 6	000 - 255	0-100%
81	Zoom 6	000 - 255	0-100%
82	Dimmer 6	000 - 255	0-100%
83	Fine dimmer 6	000 - 255	0-100%
84	Red 6 Cyan 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
85	Fine red 6 Fine cyan 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
86	Green 6 Magenta 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
87	Fine green 6 Fine magenta 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
88	Blue 6 Yellow 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
89	Fine blue 6 Fine yellow 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
90	White 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
91	Fine white 6	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
92	Tilt 7	000 - 255	0-100%
93	Fine tilt 7	000 - 255	0-100%
94	Zoom 7	000 - 255	0-100%
95	Dimmer 7	000 - 255	0-100%
96	Fine dimmer7	000 - 255	0-100%
97	Red 7 Cyan 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
98	Fine red 7 Fine cyan 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
99	Green 7 Magenta 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
100	Fine green 7 Fine magenta 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
101	Blue 7 Yellow 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
102	Fine blue 7 Fine yellow 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
103	White 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
104	Fine white 7	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
105	Tilt 8	000 - 255	0-100%
106	Fine tilt 8	000 - 255	0-100%
107	Zoom 8	000 - 255	0-100%
108	Dimmer 8	000 - 255	0-100%
109	Fine dimmer 8	000 - 255	0-100%
110	Red 8 Cyan 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
111	Fine red 8 Fine cyan 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

112	Green 8 Magenta 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
113	Fine green 8 Fine magenta 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
114	Blue 8 Yellow 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
115	Fine blue 8 Fine yellow 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
116	White 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
117	Fine white 8	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
118	Tilt 9	000 - 255	0-100%
119	Fine tilt 9	000 - 255	0-100%
120	Zoom 9	000 - 255	0-100%
121	Dimmer 9	000 - 255	0-100%
122	Fine dimmer 9	000 - 255	0-100%
123	Red 9 Cyan 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
124	Fine red 9 Fine cyan 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
125	Green 9 Magenta 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
126	Fine green 9 Fine magenta 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
127	Blue 9 Yellow 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
128	Fine blue 9 Fine yellow 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
129	White 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
130	Fine white 9	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
131	Tilt 10	000 - 255	0-100%
132	Fine tilt 10	000 - 255	0-100%
133	Zoom 10	000 - 255	0-100%
134	Dimmer 10	000 - 255	0-100%
135	Fine dimmer 10	000 - 255	0-100%
136	Red 10 Cyan 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
137	Fine red 10 Fine cyan 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
138	Green 10 Magenta 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
139	Fine green 10 Fine magenta 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
140	Blue 10 Yellow 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
141	Fine blue 10 Fine yellow 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
142	White 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
143	Fine white 10	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

144	Tilt 11	000 - 255	0-100%
145	Fine tilt 11	000 - 255	0-100%
146	Zoom 11	000 - 255	0-100%
147	Dimmer 11	000 - 255	0-100%
148	Fine dimmer 11	000 - 255	0-100%
149	Red 11 Cyan 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
150	Fine red 11 Fine cyan 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
151	Green 11 Magenta 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
152	Fine green 11 Fine magenta 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
153	Blue11 Yellow 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
154	Fine blue 11 Fine yellow 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
155	White 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
156	Fine white 11	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
157	Tilt 12	000 - 255	0-100%
158	Fine tilt 12	000 - 255	0-100%
159	Zoom 12	000 - 255	0-100%
160	Dimmer 12	000 - 255	0-100%
161	Fine dimmer 12	000 - 255	0-100%
162	Red 12 Cyan 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
163	Fine red 12 Fine cyan 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
164	Green 12 Magenta 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
165	Fine green 12 Fine magenta 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
166	Blue 12 Yellow 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
167	Fine blue 12 Fine yellow 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
168	White 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%
169	Fine white 12	000 - 255	RGBW Mode:0-100%/CMY Mode:100-0%

169CH-B	function	DMX numeric value	description
1	Tilt 1	000 ↔ 255	0–100%

2	Fine tilt 1	000 ↔ 255	0–100%
3	Zoom 1	000 ↔ 255	0–100%
4	Dimmer 1	000 ↔ 255	0–100%
5	Fine Dimmer 1	000 ↔ 255	0–100%
6	Strobe 1	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
7	Red 1 Cyan 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
8	Fine red 1 Fine Cyan 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
9	Green 1 Magenta 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
10	Fine green 1 Fine Magenta 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
11	Blue 1 Yellow 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
12	Fine blue 1 Fine yellow 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
13	White 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
14	Fine White 1	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
15	Tilt 2	000 ↔ 255	0–100%
16	Fine tilt 2	000 ↔ 255	0–100%
17	Zoom 2	000 ↔ 255	0–100%
18	Dimmer 2	000 ↔ 255	0–100%
19	Fine Dimmer 2	000 ↔ 255	0–100%
20	Strobe 2	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
21	Red 2 Cyan 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
22	Fine red 2 Fine Cyan 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
23	Green 2 Magenta 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
24	Fine green 2 Fine Magenta 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
25	Blue 2 Yellow 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
26	Fine blue 2 Fine yellow 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
27	White 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
28	Fine White 2	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
29	Tilt 3	000 ↔ 255	0–100%
30	Fine tilt 3	000 ↔ 255	0–100%
31	Zoom 3	000 ↔ 255	0–100%
32	Dimmer 3	000 ↔ 255	0–100%
33	Fine Dimmer 3	000 ↔ 255	0–100%
34	Strobe 3	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
35	Red 3 Cyan 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
36	Fine red 3 Fine Cyan 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%

37	Green 3 Magenta 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
38	Fine green 3 Fine Magenta 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
39	Blue 3 Yellow 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
40	Fine blue 3 Fine yellow 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
41	White 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
42	Fine White 3	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
43	Tilt 4	000 ↔ 255	0–100%
44	Fine tilt 4	000 ↔ 255	0–100%
45	Zoom 4	000 ↔ 255	0–100%
46	Dimmer 4	000 ↔ 255	0–100%
47	Fine Dimmer 4	000 ↔ 255	0–100%
48	Strobe 4	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
49	Red 4 Cyan 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
50	Fine red 4 Fine Cyan 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
51	Green 4 Magenta 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
52	Fine green 4 Fine Magenta 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
53	Blue 4 Yellow 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
54	Fine blue 4 Fine yellow 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
55	White 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
56	Fine White 4	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
57	Tilt 5	000 ↔ 255	0–100%
58	Fine tilt 5	000 ↔ 255	0–100%
59	Zoom 5	000 ↔ 255	0–100%
60	Dimmer 5	000 ↔ 255	0–100%
61	Fine Dimmer 5	000 ↔ 255	0–100%
62	Strobe 5	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
63	Red 5 Cyan 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
64	Fine red 5 Fine Cyan 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
65	Green 5 Magenta 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
66	Fine green 5 Fine Magenta 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
67	Blue 5 Yellow 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
68	Fine blue 5 Fine yellow 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
69	White 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
70	Fine White 5	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
71	Tilt 6	000 ↔ 255	0–100%
72	Fine tilt 6	000 ↔ 255	0–100%

73	Zoom 6	000 ↔ 255	0–100%
74	Dimmer 6	000 ↔ 255	0–100%
75	Fine Dimmer 6	000 ↔ 255	0–100%
76	Strobe 6	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
77	Red 6 Cyan 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
78	Fine red 6 Fine Cyan 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
79	Green 6 Magenta 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
80	Fine green 6 Fine Magenta 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
81	Blue 6 Yellow 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
82	Fine blue 6 Fine yellow 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
83	White 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
84	Fine White 6	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
85	Tilt 7	000 ↔ 255	0–100%
86	Fine tilt 7	000 ↔ 255	0–100%
87	Zoom 7	000 ↔ 255	0–100%
88	Dimmer 7	000 ↔ 255	0–100%
89	Fine Dimmer 7	000 ↔ 255	0–100%
90	Strobe 7	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
91	Red 7 Cyan 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
92	Fine red 7 Fine Cyan 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
93	Green 7 Magenta 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
94	Fine green 7 Fine Magenta 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
95	Blue 7 Yellow 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
96	Fine blue 7 Fine yellow 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
97	White 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
98	Fine White 7	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
99	Tilt 8	000 ↔ 255	0–100%
100	Fine tilt 8	000 ↔ 255	0–100%
101	Zoom 8	000 ↔ 255	0–100%
102	Dimmer 8	000 ↔ 255	0–100%
103	Fine Dimmer 8	000 ↔ 255	0–100%
104	Strobe 8	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
105	Red 8 Cyan 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
106	Fine red 8 Fine Cyan 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
107	Green 8 Magenta 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%

108	Fine green 8 Fine Magenta 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
109	Blue 8 Yellow 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
110	Fine blue 8 Fine yellow 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
111	White 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
112	Fine White 8	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
113	Tilt 9	000 ↔ 255	0–100%
114	Fine tilt 9	000 ↔ 255	0–100%
115	Zoom 9	000 ↔ 255	0–100%
116	Dimmer 9	000 ↔ 255	0–100%
117	Fine Dimmer 9	000 ↔ 255	0–100%
118	Strobe 9	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
119	Red 9 Cyan 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
120	Fine red 9 Fine Cyan 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
121	Green 9 Magenta 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
122	Fine green 9 Fine Magenta 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
123	Blue 9 Yellow 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
124	Fine blue 9 Fine yellow 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
125	White 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
126	Fine White 9	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
127	Tilt 10	000 ↔ 255	0–100%
128	Fine tilt 10	000 ↔ 255	0–100%
129	Zoom 10	000 ↔ 255	0–100%
130	Dimmer 10	000 ↔ 255	0–100%
131	Fine Dimmer 10	000 ↔ 255	0–100%
132	Strobe 10	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
133	Red 10 Cyan 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
134	Fine red 10 Fine Cyan 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
135	Green 10 Magenta 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
136	Fine green 10 Fine Magenta 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
137	Blue 10 Yellow 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
138	Fine blue 10 Fine yellow 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
139	White 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
140	Fine White 10	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
141	Tilt 11	000 ↔ 255	0–100%
142	Fine tilt 11	000 ↔ 255	0–100%

143	Zoom 11	000 ↔ 255	0–100%
144	Dimmer 11	000 ↔ 255	0–100%
145	Fine Dimmer 11	000 ↔ 255	0–100%
146	Strobe 11	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
147	Red 11 Cyan 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
148	Fine red 11 Fine Cyan 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
149	Green 11 Magenta 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
150	Fine green 11 Fine Magenta 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
151	Blue 11 Yellow 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
152	Fine blue 11 Fine yellow 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
153	White 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
154	Fine White 11	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
155	Tilt 12	000 ↔ 255	0–100%
156	Fine tilt 12	000 ↔ 255	0–100%
157	Zoom 12	000 ↔ 255	0–100%
158	Dimmer 12	000 ↔ 255	0–100%
159	Fine Dimmer 12	000 ↔ 255	0–100%
160	Strobe 12	000 ↔ 019	off
		020 ↔ 255	See Strobe Chart
161	Red 12 Cyan 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
162	Fine red 12 Fine Cyan 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
163	Green 12 Magenta 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
164	Fine green 12 Fine Magenta 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
165	Blue 12 Yellow 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
166	Fine blue 12 Fine yellow 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
167	White 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
168	Fine White 12	000 ↔ 255	RGBW Mode:0–100%/CMY Mode:100-0%
169	Control	000 ↔ 009	No function
		010 ↔ 255	see Control Chart

20CH	function	DMX numeric value	description
1	Tilt 1-12	000 - 255	0-100%
2	Fine tilt 1-12	000 - 255	0-100%
3	Tilt speed	000 - 255	0-100%

4	Tilt macro	000 - 004	No function
		005 - 255	See Tilt Macro
5	CTC	000	No function
		001 - 255	From 19000K to 2700K
6	Color macro	000	No function
		001 - 255	see Color Chart
7	Pattern	000	No function
		001 - 255	see Patterns
8	LED built-in	000 - 015	No function
		016 - 255	see LED Macro
9	LED built-in speed	000 - 127	Fast to slow
		128	Stop
		129 - 255	Slow to fast
10	LED built-in delay	000 - 255	Fast to slow
11	Background color	000	No function
		001 - 255	see Color Chat
12	Background color dimmer	000 - 255	0-100%
13	Dimmer	000 - 255	0-100%
14	Strobe	000 - 019	Off
		020 - 255	see Strobe Settings
15	Zoom 1-12	000 - 255	0-100%
16	Control	000 - 009	No function
		010 - 255	see Control Settings
17	Red Cyan	000 - 255	0-100%
18	Green Magenta	000 - 255	0-100%
19	Blue Yellow	000 - 255	0-100%
20	White	000 - 255	0-100%

Y-axis macro chart:

	000-004	not have
	005-009	Y Axis Macro 1
	010-014	Y Axis Macro 2

Y-axis macro		
	250-254	Y Axis Macro 50
	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	000	not have
	001- 002	White 2700K
	003- 004	White 3200K
	005- 006	White 4200K
	007- 008	White 5600K
	009- 010	White 8000K
	011	Blue
	012- 048	+ Green
	049	Cyan
	050- 086	-Blue
	087	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:

strobeflash	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

Chapter IV Common faults and usage notes**1. Troubleshooting**

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

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. Handle as follows:

If the bulb is not completely cooled due to abnormal operation, the lamp body should be cooled for more than 10 minutes to make it completely return to normal state, and then start the power supply again;

Check whether the bulb has reached its service life and replace the new bulb;

Check whether the bulb and light fixture circuit is leakage, loose or poor contact;

Replace the new light fixture.

2. The beam appears dim

Possible cause: long use of the bulb or dirty light path. The treatment is as follows:

Check whether the bulb has reached the service life and replace the new bulb;

Check whether the optical parts or bulbs are clean, and whether there is dust accumulation on the bulbs and other optical devices. The bulbs and other parts in the lamp need to be cleaned and maintained 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. The processing is as follows:

Check whether the fan is running normally or dirty, resulting in the internal temperature of the lamp rising;

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, the treatment is as follows:

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 signal amplifier and 120 ohm terminal resistor;

6. The lamp cannot be started

Possible cause: Power line is bad. The treatment is as follows:

Check whether the fuse on the power input socket is blown and replace the fuse; The circuit contact is poor due to vibration of the lamp 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 the power line with 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. Otherwise, the dust will be blocked and the heat dissipation will be poor, resulting in abnormal lighting.

When installing the lamp, the fixing screw must be tightened, and the safety cable should be added, and checked regularly;

When installing and positioning the lamp, 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. Do not install the lamp directly on the surface of combustible substances;

The continuous working time of the lamp is recommended not to exceed 10 hours, and the interval between continuous starting of the lamp should not be less than 10 minutes, otherwise it will not be able to trigger normally due to the overheating protection of the bulb;

The closing time of the switch valve should not exceed 5 minutes. If it is necessary to close the light for a long time, the lamp should be closed 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, that is, start the next scene action. It is best that this state does not exceed 3 minutes to ensure that multiple lamps can run synchronously;

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 the RMD protocol requires feedback data, and the use of unidirectional amplifier will block the return data, resulting in the 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 120ohm must be inserted between terminal 2 and 3 of the terminal plug. When the signal line is relatively long, differential signal can be used to reduce signal reflection and improve communication quality;

- When the lamp is controlled by DMX but cannot search the lamp by RDM, check the signal amplifier first, and then check whether the line 2 and 3 of the signal line are faulty.

REMARK

The product has perfect performance and integrity 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!