

SPL-LED-M1260S

USER MANUAL



Please keep read this manual carefully for further use

—. Safety Instructions

Thank you for buying our professional LED Moving Zoom Bar light.

This user manual includes important information for installation and operation, so please read this user manual carefully before installation and operation, and keep this user manual well for further use.

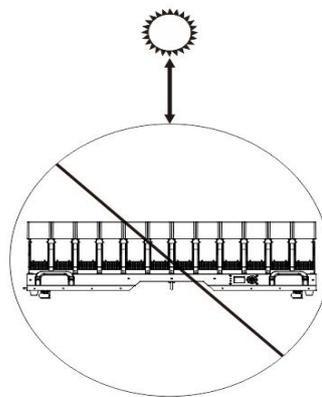
In order to install , operate, and maintain the lighting safety and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.

Cautions :

Before delivery, this device has passed strict inspection, Please follow the user manual strictly for operation, if this fixture is damaged by improper operation and mistake, the fixture will be out of warranty, and manufacture or dealer won't be responsible for it. In case of any technology change in this manual,we won't advise in further .

- Please open and check whether break or not for transport once receive this fixture, if yes, dont use it and contact dealer or manufacture as soon as possible.
- This fiture is suitable for use in dry and humid environments.
- The installation and operation of the lighting fixtures should be carried out by professionals.
- Don't let children operate the machine.
- When securing equipment, use safe ropes. When moving lamps, please also lift the bottom.
- This fiture is not suitable for direct installation on combustibile material surface at least 0.5m from any combustibile material.
- Ensure that the ventilation holes are unobstructed to prevent overheating during the operation of the lighting fixtures.
- Ensure that the power supply voltage matches the required power supply voltage of the equipment before operation.
- Please ground the conductor to prevent electric shock.
- The applicable temperature for the fixture is between -10°C to 45°C. Do not use the lighting under or above this temperature range.
- It is prohibited to directly connect the lighting fixture to the dimming device.
- Please do not place flammable items next to the lighting fixture during operation to prevent fire hazards.
- Before turning on the light, please carefully check whether the power cord is damaged. If there is any damage, please replace it immediately.
- The surface temperature of the lamp can reach 50 °C during operation, please do not touch it with your hands.
- Avoid flammable liquids, water, or metal conductors from entering the interior of the lamp to prevent electric shock or fire; If any foreign objects enter the lamp, please cut off the power immediately.
- Avoid operating lighting fixtures in dirty and dusty environments, and regularly clean and maintain the fixtures.
- Do not touch the wires during the operation of the lighting fixture to prevent electric shock.
- Avoid wrapping the power cord with other wires.
- The distance between the lamp and the illuminated surface should be greater than 5M.

- Do not repeatedly turn on the lighting fixtures.
- Please replace the lamp housing, lens, or UV filter in a timely manner when there is obvious damage.
- There are no available components inside the lamp, please do not open the lamp housing without authorization.
- If the machine malfunctions, please stop using it immediately and turn off the power for inspection; Non professional technicians are not allowed to repair on their own; If you need assistance, please contact the nearest authorized sales/technical center.
- Please cut off the power supply when the lamp is not used or repaired for a long time.
- When transporting again, please use the original packaging materials.
- Before packing and transportation, please open the X and Y axis locks.
- Do not look directly at the lighting fixture while it is in operation.
- Do not operate the lamp without a protective cover or with damaged casing.
- Direct sunlight or any other strong light source beam penetrating the front lens of the lamp can cause serious internal damage to the lamp. It is forbidden to expose the front lens of the lamp to direct sunlight or any other strong light source at any angle during unpacking, installation, use, and long-term outdoor idle. It is prohibited to directly aim the beam of one lamp at another lamp.



Product specification

Input voltage: AC100-240V 50/60Hz

Power consumption: 800W

light source: 12pcs 60W RGBW 4in1 Led

Beam angle: 4~14°

Dimming: 0-100% smooth dimming

Strobe: 1S/25 (Built in multiple strobe effects)

Tilt: 200°(16bit precise scanning)

Control panel: LCD screen

Control mode: DMX512/auto/Sound/RDM

DMX channel: 20CH/53CH/101CH/155CH/169ACH/169BCH/179CH

Software upgrading: DMX Connect upgrade software

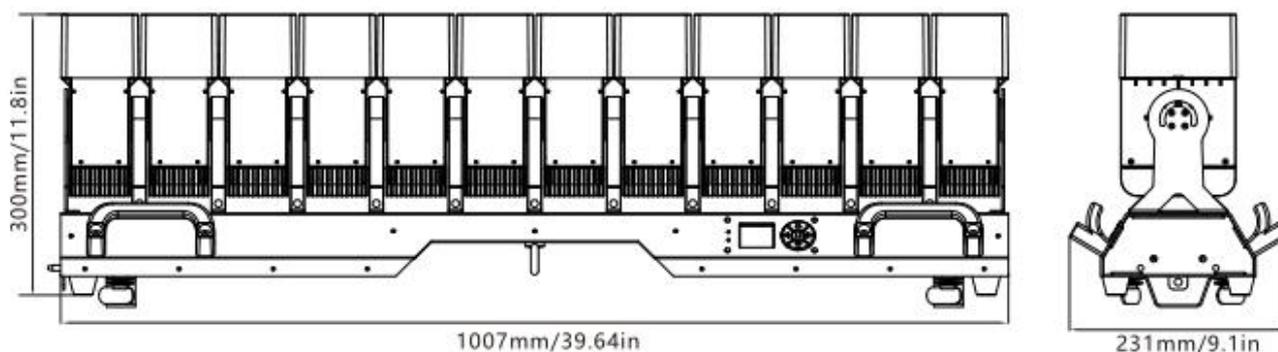
DMX connections: 3Pint XLR Input&Output

connector: Input&Output

IP: IP20

Product size: 1007*231*300(mm)

N.W: 25.7 kg (56.7 lbs)



Factory configuration:

Electronic manual

Power cable

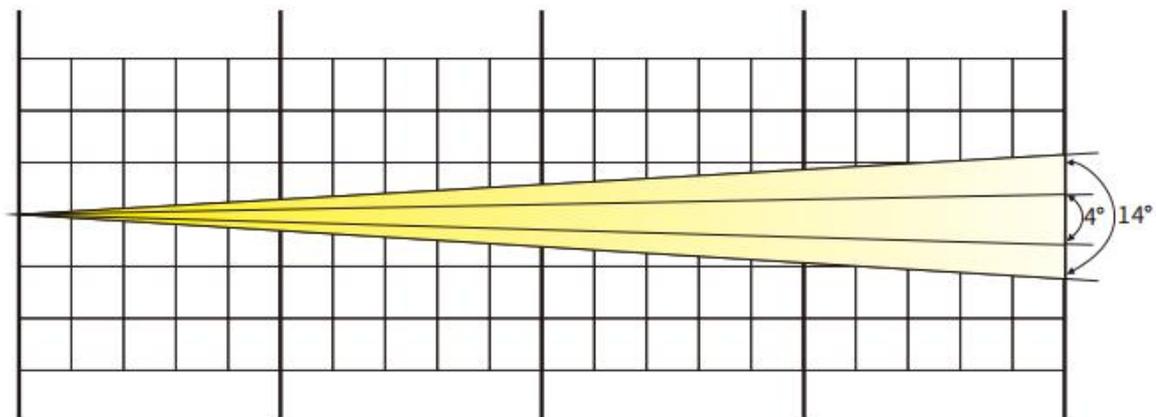
2pcs quick lock light hooks (1105001000003、1105001000004、1105001000005、1105001000006)

Optional accessories (including accessory codes):

Signal cable: 3-core or 5-core signal cable

Safety rope: 1304001000002

Distance 1m/39.4in 2m/78.74in 3m/118.1in 5m/196.9in



4°(LUX)				
RGBW	109000	28000	11800	4720
R	20000	5360	2300	962
G	52000	13000	5870	2230
B	1580	445	213	110
W	71000	18000	8110	3100
Diameter(m)	0.11	0.15	0.21	0.35
14°(LUX)				
RGBW	10900	3840	1900	836
R	2000	732	390	186
G	5550	1900	972	428
B	200	93	73	58
W	7400	2500	1180	560
Diameter(m)	0.32	0.55	0.8	1.2

二. Power connection

Before connecting the power, please check if the XY axis of the lamp has been released.

This lamp can operate at 100-240Vac; Run on a 50/60Hz AC power supply.

The maximum power consumption is 800W.

The lighting fixtures must be grounded and able to be isolated from the AC power source. AC power must include fault protection fuses or circuit breakers. Wiring and wiring work must be carried out by qualified electricians.

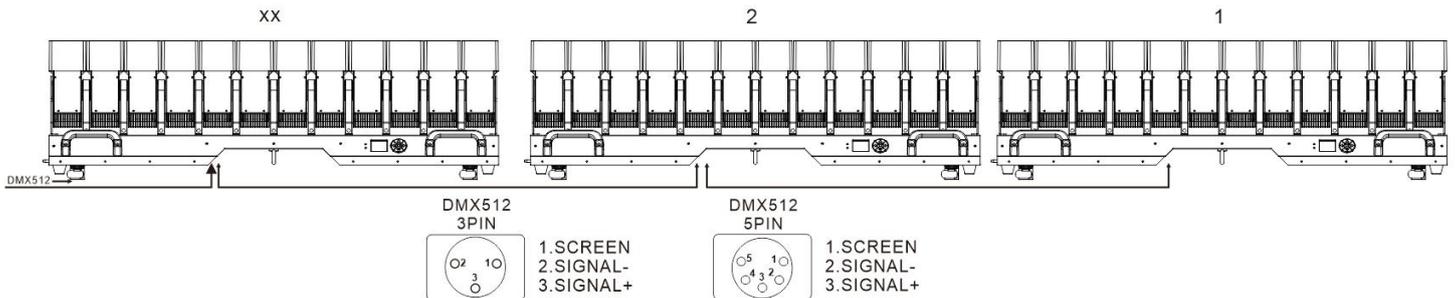
The color coding of the power cord is shown in the following figure:

≡. Signal connection

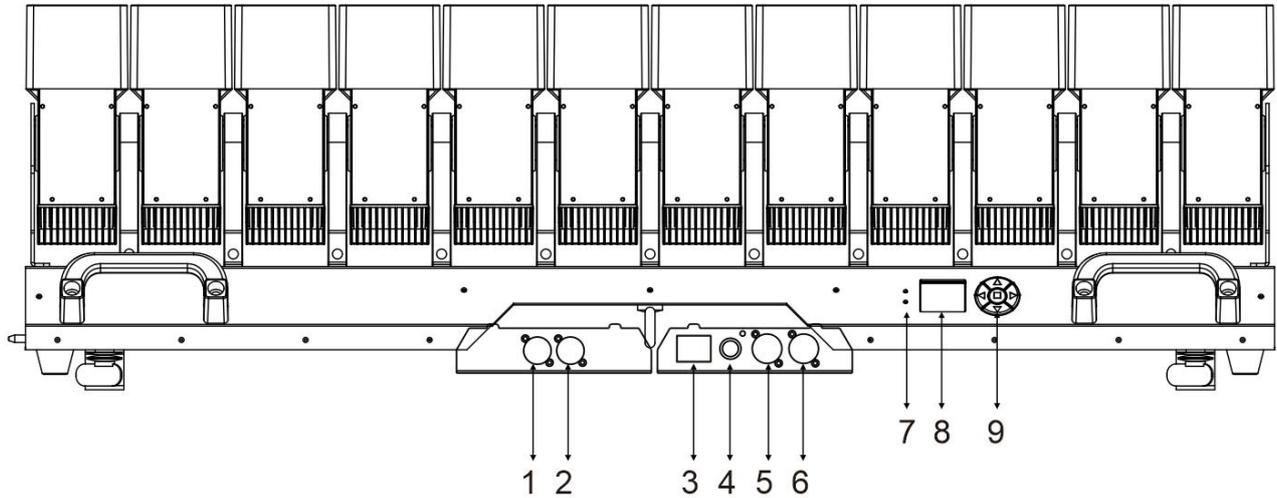
The lamp is equipped with a 5-pin (3-pin) XLR socket for DMX input and output. Please use a high-quality DMX signal cable designed specifically for RS-485 and a 5-pin (3-pin) XLR connector to connect the controller to the lighting fixture, or to connect one lighting fixture to another. For outdoor installation, please only use IP grade XLR connectors suitable for outdoor use.

Building a serial DMX data link:

Connect the DMX output of the controller to the DMX input socket of the lighting fixture. Connect the DMX output terminal of the first light fixture in the DMX link to the DMX input terminal of the next light fixture. Always connect the output terminal of one lamp to the input terminal of the next lamp until all lamps are connected.



四. Control panel



1. DMX input: Used for DMX512 connection, connect the console and lighting fixtures with a 3/5-core XLR signal cable, and input DMX signals (optional 3-core)
2. DMX output: Used for DMX512 connection, connect the next light fixture with a 3/5-core XLR signal cable and output DMX signal (optional 3-core)
3. Power switch
4. Insurance seat: 12A Fuse
5. Power output: Connect to the next light fixture
6. Power input: Connect the power supply for power supply
7. Signal indicator light
8. Display screen: Display various functional menus
9. Button: Up key: Menu function up selection/Parameter increment
Down arrow key: menu function down selection/parameter increment
Left button: Menu left selection/Return/Main menu
Right arrow key: Select/Confirm menu to the right
Confirm key: Select the menu function and make a confirmation and save when modifying the menu function parameters

五. MENU Instruction

1. Press the [MENU] button to enter the main menu.
2. Use the [ENTER], [UP], and [DOWN] buttons to browse the menu.
3. To select a menu option or confirm the selected setting, please press the [ENTER] button.
4. To return to the previous menu without making any changes, please press the [MENU] button.

The main functions are displayed as follows:

Main Menu	Secondary menu	Tertiary menu/parameter
1、System settings	1、DMX Address	Modify the DMX address code up or down (optional range of address code 001-512), press the confirm key to save, default to 001.
	2、Encoder	On/Off
	3、Y reversal	Modify Y reversal up or down to turn on/off, confirm key to save, default to turn off.
	4、Enlarge and Reverse	On/Off
	5、No signal	Reset/Keep
	6、Voice sensitivity	001-099
	7、Reset	No/Yes
	8、Restore factory settings	No/Yes
	9、advanced setting	
2、Operation mode	1. Operation mode	Select up or down the operating mode of DMX/voice control/automatic, press the confirm button to save, default to DMX.
	2. Channel selection	Select channel 20CH.53CH.101CH.155CH.169ACH.169BCH.179CH up or down and press the confirm button to save
	3. Y mode amplitude	000-255
3、Manual Control	1 Y	Modify the operating parameter values of Y motor up or down (adjustable range 000-255), press the confirm button to save, default to 000.
	2. Y fine-tuning	Modify the Y fine-tuning parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.
	3. Y speed	Modify the speed parameter value of Y motor up or down (adjustable range 000-255), press the confirm button to save, default to 000.
	4. Y mode	Modify the Y mode parameter values up or down (adjustable range 000-255), press the confirm key to save, default to 000.
	5 CTC	Modify CTC parameter values up or down (adjustable range 000-255), press the confirm key to save, default to 000.
	6. Color Macro	Modify the color macro parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.
	7. Pattern	Modify the pattern parameter values up or down (adjustable range 000-255), press the confirm key to save, default to 000.
	8、LED mode	Modify the LED mode parameter values up or down (adjustable range 000-255), press the confirm button to save, default to 000.
	9、LED speed	Modify the LED speed parameter value up or down (adjustable range 000-255), press the confirm button to save, default to 000.

	10. LED tail	Modify the LED trailing parameter value up or down (adjustable range 000-255), press the confirm button to save, default to 000.	
	11. Background color	Modify the background color parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	12. Background dimming	Modify the background dimming parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	13. Dimming	Modify the dimming parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	14. Strobe light	Modify the strobe parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	15. Zoom	Modify the zoom parameter value up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	16. Function	Modify the function parameter values up or down (adjustable range 000-255), press the confirm key to save, default to 000.	
	17. Red	Adjust the brightness of the red light bead up or down (adjustable range 000-255), press the confirm button to save, default to 000.	
	18. Green	Adjust the brightness of the green light bead up or down (adjustable range 000-255), press the confirm button to save, default to 000.	
	19. Blue	Adjust the brightness of the blue light bead up or down (adjustable range 000-255), press the confirm button to save, default to 000.	
	20. White	Adjust the brightness of the white light bead up or down (adjustable range 000-255), press the confirm button to save, default to 000.	
4. Display Settings	1. Language selection	Select Chinese/EN (English) up or down, press the confirm button to save, default to Chinese.	
	2. Inverted Display Settings	Select up or down to turn off/on the reverse display setting, press the confirm button to save, and it will be turned off by default.	
	3. Screen saver settings	Select up or down to turn off/on the screensaver settings, press the confirm button to save, and it will be turned on by default.	
	4. Software version	R2.B	
5. Information settings	1. Sensors	Whole lamp optocoupler, Hall information status	
	2. Error message	Error message or system normal	
	3. Channel information	View the numerical values used in the channel	
	4. Time information	LED time: X: X: X LED lighting usage time	
6. Factory settings	Please enter your password! Change up or down to 138, then press the confirm button to enter the factory settings.	1、 Y1 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		2、 F1 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		3、 Y2 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		4、 F2 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		5、 Y3 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		6、 F3 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		7、 Y4 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		8、 F4 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
		Y5 calibration	Modify parameters up or down (range 000-255), press the confirm

		key to save, default is 128.
	10. F5 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	11. Y6 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	12. F6 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	13. Y7 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	14. F7 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	15. Y8 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	16. F8 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	17. Y9 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	18. F9 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	19. Y10 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	20. F10 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	21. Y11 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	22. F11 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	23. Y12 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	24. F12 calibration	Modify parameters up or down (range 000-255), press the confirm key to save, default is 128.
	25. Y itinerary	Modify the Y travel parameter (range 000-255) up or down, press the confirm key to save, default is 128.
	26. Focusing stroke	Modify the focusing stroke parameter (range 000-255) up or down, press the confirm button to save, default is 128.
	27. Red 1	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	28. Green 1	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	29. Blue 1	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	30. White 1	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	31. Red 2	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	32. Green 2	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	33. Blue 2	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	34. White 2	Modify parameters up or down (range 000-255), press the

		confirm key to save, default is 252.
	35. Red 3	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	36. Green 3	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	37. Blue 3	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	38. White 3	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	39. Red 4	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	40. Green 4	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	41. Blue 4	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	42. White 4	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	43. Red 5	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	44. Green 5	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	45. Blue 5	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	46. White 5	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	47. Red 6	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	48. Green 6	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	49. Blue 6	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	50. White 6	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	51. Red 7	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	52. Green 7	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	53. Blue 7	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	54. White 7	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	55. Red 8	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	56. Green 8	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	57. Blue 8	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	58. White 8	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.

	59. Red 9	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	60. Green 9	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	61. Blue 9	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	62. White 9	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	63. Red 10	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	64. Green 10	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	65. Blue 10	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	66. White 10	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	67. Red 11	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	68. Green 11	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	69. Blue 11	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	70. White 11	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	71. Red 12	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	72. Green 12	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	73. Blue 12	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	74. White 12	Modify parameters up or down (range 000-255), press the confirm key to save, default is 252.
	75. LEDYF direction	Modify the LED direction parameter (range 000-255) up or down, press the confirm button to save, default to 000.
	76. Current	Modify the current parameter up or down (range 000-255), press the confirm button to save, default is 225.
	77. LOGO	LOGO switching, 000-001
	78. Temperature	Temperature modification Default 55
	79. Temperature Control - Fan	Quiet/Standard/Off, default off.
	80. LED	LED sequence switching, LEDA-LEDB
	81. Color mixing mode	RGBW turn to CMY
	82. PWM frequency	1200HZ/600HZ/15000HZ/6000HZ/4000HZ/2000HZ
	83. Dimming	83. Dimming curve linear/S-curve/inverse square

		curve	rate/square rate
		84. Dimming mode fast/smooth	84. Dimming mode fast/smooth
		85. Sports light off/on	85. Sports light off/on
		86. Time reset No/Yes, default No	86. Time reset No/Yes, default No

六.System setting

Press the MENU button to enter the main menu, select system settings, press the ENTER button to confirm, and use the UP/DOWN button to select: DMX address, encoder, Y reversal, amplification reversal, no signal, voice sensitivity, reset, factory reset, advanced settings.

DMX address

Select the DMX address and press the ENTER button to confirm.
Use the UP/DOWN button to select 001-512, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Encoder

Select the encoder and press the ENTER button to confirm.
Use the UP/DOWN button to select on/off, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y reversal

Select Y reversal and press the ENTER button to confirm.
Use the UP/DOWN button to select on/off, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Enlarge and

Reverse

Select zoom in and reverse, press the ENTER button to confirm.
Use the UP/DOWN button to select on/off, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

No signal

Select no signal and press the ENTER button to confirm.

Use the UP/DOWN button to select clear/hold, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Voice sensitivity

Select voice sensitivity and press the ENTER button to confirm.

Use the UP/DOWN button to select 001-099 and press the ENTER button to save.

Press the MENU button to return to the previous menu.

reset

Select reset and press the ENTER button to confirm.

Use the UP/DOWN button to select 'No' or 'Yes', and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Restore factory settings

Select reset and press the ENTER button to confirm.

Use the UP/DOWN button to select 'No' or 'Yes', and press the ENTER button to save.

Press the MENU button to return to the previous menu.

advanced setting

Select advanced settings and press the ENTER button to confirm.

Use the UP/DOWN button to select and press the ENTER button to save.

Press the MENU button to return to the previous menu.

七.System setting

Press the MENU button to enter the main menu, select the operating mode, press the ENTER button to confirm, and use the UP/DOWN button to select: operating mode, channel selection, Y mode amplitude.

Operating mode

Select the operating mode and press the ENTER button to confirm.
Use the UP/DOWN button to select DMX/voice control/automatic, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

channel select

Select channel selection and press the ENTER button to confirm.
Use the UP/DOWN button to select 20CH/53CH/101CH/155CH/169BCH/179CH, press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y mode

amplitude

Select Y mode amplitude and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

八. Manual Control

Press the MENU button to enter the main menu, select Test Run, press the ENTER button to confirm, and use the UP/DOWN button to select: Y, Y Fine Adjustment, Y Speed, Y Mode CTC、 Color macro, pattern, LED mode, LED speed, LED trailing, background color, background dimming, dimming, strobe, zoom, function, red, green, blue, white.

Y

Select Y and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Y fine

Select Y fine-tuning and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Y speed

Select Y speed and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Y mode

Select Y mode and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

CTC

Select CTC and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Color Macro

Select the color macro and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

pattern

Select the pattern and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

LED mode

Select the LED mode and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

LED speed

Select the LED speed and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

LED trailing

Choose LED trailing

Press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

background

color

Select the background color and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Background

dimming

Select background dimming and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Dimming

Select dimming and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Strobe

Select strobe and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Amplify

Select zoom in and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Function

Select the function and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Red

Select red and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Green

Select green and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Blue

Select blue and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

White

Select white and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

九.Display setting

Press the MENU button to enter the main menu, select display settings, press the ENTER button to confirm, and use the UP/DOWN button to select: language selection, reverse display settings, screensaver settings, software version.

Language selection

Select voice selection and press the ENTER button to confirm.

Use the UP/DOWN button to select Chinese/EN (English), and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Inverted Display Settings

Select the reverse display setting and press the ENTER button to confirm.

Use the UP/DOWN button to select off/on, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Screen saver settings

Select screensaver settings and press the ENTER button to confirm.

Use the UP/DOWN button to select off/on, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

Software version

Select the software version and press the ENTER button to confirm. Use the UP/DOWN button to select R2. B, and press the ENTER button to save.

Press the MENU button to return to the previous menu.

十.Information settings

Press the MENU button to enter the main menu, select Information Settings, press the ENTER button to confirm, and use the UP/DOWN button to select: Sensor, Error Information, Channel Information, Time Information.

Sensor

Select the sensor and press the ENTER button to confirm.

Use the UP/DOWN button to select the status of the whole lamp optocoupler and Hall information, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Error message

Select the error message and press the ENTER button to confirm.
Use the UP/DOWN button to select error items/system normal, press the ENTER button to save.
Press the MENU button to return to the previous menu.

Channel information

Select channel information and press the ENTER button to confirm.
Use the UP/DOWN button to select the values used to view the channel, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Time information

Select the time information and press the ENTER button to confirm.
Use the UP/DOWN button to select the LED time/lamp time, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

十一. Factory settings

Press the MENU button to enter the main menu, select Factory Settings, press the enter button to confirm, and then use the UP/DOWN button to make the selection. This setting is used to fine tune the functional parameters of lighting equipment and requires permission. (See 5.2 for detailed adjustment settings of lamp function parameters)

RDM function: Some menus and functions of the device can be called through the RDM protocol.

The parameter IDs for different commands are implemented as follows:

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	✓		
DISC_MUTE	✓		
DISC_UN_MUTE	✓		
DEVICE_INFO			✓
SUPPORTED_PARAMETERS			✓
SOFTWARE_VERSION_LABEL			✓

DMX_START_ADDRESS		✓	✓
IDENTIFY_DEVICE		✓	✓
DEVICE_MODEL_DESCRIPTION			✓
PARAMETER_DESCRIPTION			✓
MANUFACTURER_LABEL			✓
DEVICE_LABEL		✓	✓
FACTORY_DEFAULTS		✓	✓
BOOT_SOFTWARE_VERSION_ID			✓
BOOT_SOFTWARE_VERSION_LABEL			✓
DMX_PERSONALITY		✓	✓
DMX_PERSONALITY_DESCRIPTION			✓
SLOT_INFO			✓
SLOT_DESCRIPTION			✓
SENSOR_DEFINITION			✓
SENSOR_VALUE			✓
DEVICE_HOURS			✓
LAMP_HOURS			✓
PAN_INVERT		✓	✓
TILT_INVERT		✓	✓
RESET_DEVICE		✓	
CURVE		✓	✓
DMX_STATE		✓	✓
DIMMER_SPEED		✓	✓

✓ Commands executed for each parameter ID

十二. Factory settings

- Press the [MENU] button to enter the factory settings.
- Use [ENTER] to enter the factory settings menu.
- Use the [ENTER], [UP], and [DOWN] buttons to select the login password: 138. To select the factory settings menu option or confirm the selected settings, please press the [ENTER] button.
- To return to the previous factory settings menu without making any changes, please press the [MENU] button.

Advanced Settings Menu	Fine tuning value
Y1 calibration	000~255
F1 calibration	000~255
Y2 calibration	000~255
F2 calibration	000~255
Y3 calibration	000~255
F3 calibration	000~255
Y4 calibration	000~255
F4 calibration	000~255
Y5 calibration	000~255
F5 calibration	000~255
Y6 calibration	000~255
F6 calibration	000~255
Y7 calibration	000~255
F7 calibration	000~255
Y8 calibration	000~255
F8 calibration	000~255
Y9 calibration	000~255
F9 calibration	000~255
Y10 calibration	000~255
F10 calibration	000~255
Y11 calibration	000~255
F11 calibration	000~255
Y12 calibration	000~255
F12 calibration	000~255
Red 1	000~255
Green 1	000~255
Blue 1	000~255
White 1	000~255
Red 2	000~255

Green 2	000~255
Blue 2	000~255
White 2	000~255
Red 3	000~255
Green 3	000~255
Blue 3	000~255
White 3	000~255
Red 4	000~255
Green 4	000~255
Blue 4	000~255
White 4	000~255
Red 5	000~255
Green 5	000~255
Blue 5	000~255
White 5	000~255
Red 6	000~255
Green 6	000~255
Blue 6	000~255
White 6	000~255
Red 7	000~255
Green 7	000~255
Blue 7	000~255
White 7	000~255
Red 8	000~255
Green 8	000~255
Blue 8	000~255
White 8	000~255
Red 9	000~255
Green 9	000~255
Blue 9	000~255
White 9	000~255
Red 10	000~255

Green 10	000~255
Blue 10	000~255
White 10	000~255
Red 11	000~255
Green 11	000~255
Blue 11	000~255
White 11	000~255
Red 12	000~255
Green 12	000~255
Blue 12	000~255
White 12	000~255
LEDYF direction	000~255
electric current	000~255
LOGO	000~001
temperature	040~070
Temperature Control - Fan	Quiet/Standard/Closed
LED	LEDA/LEDB
Color mixing mode	RGBW/CMY
PWM frequency	600~15000HZ
Dimming curve	Linear/S-curve/inverse square rate/square rate
Dimming mode	Fast/Smooth
Exercise off light	Close/Open
Time reset	No/Yes

Y1
calibration

Select Y1 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F1
calibration

Select F1 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y2
calibration

Select Y2 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F2
calibration

Select F2 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y3
calibration

Select Y3 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F3
calibration

Select F3 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y4
calibration

Select Y4 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F4
calibration

Select F4 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y5
calibration

Select Y5 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F5
calibration

Select F5 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y6
calibration

Select Y6 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F6
calibration

Select F6 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y7
calibration

Select Y7 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F7
calibration

Select F7 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y8
calibration

Select Y8 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F8
calibration

Select F8 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y9
calibration

Select Y9 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F9
calibration

Select F9 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y10
calibration

Select Y10 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F10
calibration

Select F10 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y11
calibration

Select Y11 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F11
calibration

Select F11 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y12
calibration

Select Y12 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

F12
calibration

Select F12 axis calibration and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Y range

Select the Y itinerary and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Focus range

Select the focusing stroke and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 1

Select red 1 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 1

Select green 1 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 1

Select blue 1 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 1

Select white 1 and press the ENTER button to confirm.

Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 2

Select red 2 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 2

Select green 2 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 2

Select blue 2 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 2

Select white 2 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 3

Select red 3 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 3

Select green 3 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 3

Select blue 3 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 3

Select white 3 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 4

Select red 4 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 4

Select green 4 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 4

Select blue 4 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 4

Select white 4 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 5

Select red 5 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 5

Select green 5 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 5

Select blue 5 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 5

Select white 5 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 6

Select red 6 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 6

Select green 6 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 6

Select blue 6 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 6

Select white 6 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 7

Select red 7 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 7

Select green 7 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 7

Select blue 7 and press the ENTER button to confirm.

- White 7
- Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Red 8
- Select red 8 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Green 8
- Select green 8 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Blue 8
- Select blue 8 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- White 8
- Select white 8 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Red 9
- Select red 9 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Green 9
- Select green 9 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Blue 9
- Select blue 9 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- White 9
- Select white 9 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Red 10
- Select red 10 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.
- Green 10
- Select green 10 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 10

Select blue 10 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 10

Select white 10 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 11

Select red 11 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 11

Select green 11 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 11

Select blue 11 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 11

Select white 11 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Red 12

Select red 21 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Green 12

Select green 21 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Blue 12

Select blue 12 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

White 12

Select white 12 and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

LEDYF
direction

Select the LEDYF direction and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Electric
current

Select the current and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-255, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

LOGO

Select the logo and press the ENTER button to confirm.
Use the UP/DOWN button to select 000-001 and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Temperature

Select the temperature and press the ENTER button to confirm.
Use the UP/DOWN button to select 040-070 and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Temperature
fan

Select temperature fan and press the ENTER button to confirm.
Use the UP/DOWN button to select Quiet/Standard/Off, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

LED

Select the LED and press the ENTER button to confirm.
Use the UP/DOWN button to select LEDA/LEDB, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Color mixing
mod

Select the color mixing mode and press the ENTER button to confirm.
Use the UP/DOWN button to select RGBW/CMY, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

PWM rate

Select the PWM rate and press the ENTER button to confirm.
Use the UP/DOWN button to select 1200HZ/600HZ/15000HZ/6000HZ/4000HZ/2000HZ, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Dimming
curve

Select the dimming curve and press the ENTER button to confirm.
Use the UP/DOWN button to select Linear/S Curve/Inverse Square Rate/Square Rate, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Dimming
mode

Select the dimming mode and press the ENTER button to confirm.
Use the UP/DOWN button to select Quick/Smooth, and press the ENTER button to save. Press the MENU button to return to the previous menu.

Motion off

light

Select motion off light and press the ENTER button to confirm.
Use the UP/DOWN button to select off/on, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

Time reset

Select time reset and press the ENTER button to confirm.
Use the UP/DOWN button to select No/Yes, and press the ENTER button to save.
Press the MENU button to return to the previous menu.

十二. DMX address and channel settings

Each lighting fixture must be assigned a specific starting address code. When receiving signal transmission, the lighting fixture will start receiving channel control signals from the DMX512 console starting from this specific starting address code.

According to their own requirements or convenience of use, users can set multiple lamps with the same address code, or set an independent address code for each lamp.

If multiple lighting fixtures are set to the same address code, they all receive signals from the DMX channel starting from the same address code. This method allows all connected lighting fixtures to be controlled together, and the control panel cannot individually control a particular lighting fixture.

If each light fixture is set to a different address code, each light fixture will receive signals from the DMX512 console starting from its specific starting address, making it easier to control a particular light fixture individually. When using this method, the starting address code of the next lamp must be determined based on the number of channels occupied by each lamp.

This scanning lamp has 20 channels, so the starting address code for the first lamp should be set to 1, the starting address code for the second lamp should be set to 21 (20+1), the starting address code for the third lamp should be set to 41 (20+21), and so on.

Please refer to the following figure for details:

Channel mode	Lamp1 Address code	Lamp2 Address code	Lamp3 Address code	Lamp4 Address code	LampXXX Address code
20 channel	1	21	41	61

20channel description:

Channel	name	value	describe
1	Y	000-255	0-200 degrees (Y direction, used with 4 channels)
2	Y fine	000-255	0-1度(Y mode amplitude, used with 4 channels)
3	Y macro velocity	000-255	From slow to fast
4	Y macro	000-003	No function
		004-255	4 values and 1 effect, a total of 63 effects
5	CTC	000-009	No function
		010-255	2100K-6500K
6	Color macro	000	No function
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
		087	Green R=0 G=255 B=0 W=0
		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
		239	Blue R=0 G=0 B=255 W=0
		240- 247	Color fade, fast to slow
248-255	Color snap, fast to slow		
7	Pattern	000	No function
		001-255	One value, one effect, a total of 255 patterns
8	LED effect	000-001	No function
		002-253	Two values and one effect, a total of 126 effects
		254-255	All effect loops
9	LED effect speed	000-255	From slow to fast
10	LED effect trailing	000-255	From fast to slow
11	LED background color	000-255	RGBW
12	LED background	000-255	0-100%

	color tone light		
13	Total dimming	000-255	0-100%
14	Total Strobe	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		
15	Enlarge	000-255	Linear adjustment from width to width
16	Special Features	000-009	No function
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
		060-064	Zoom reset
		065-069	Quiet zoom reset
		070-074	All reset
075-079	Cell order 1-12		
080-084	Cell order 12-1		

		085-089	Reserved for future use
		090-094	Tilt reverse
		095-099	Reserved for future use
		100-104	Disable tilt reverse
		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
		120-134	Reserved for future use
		135-139	Dimmer fast
		140-144	Dimmer smooth
		145-149	Linear
		150-154	Square
		155-159	I Squa
		160-164	S-Curve
		165-169	Reserved for future use
		170-174	Reserved for future use
		175-179	PWM 600HZ
		180-184	PWM 1200HZ
		185-189	PWM 2000 HZ
		190-194	PWM 4000 HZ
		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
		205-255	Reserved for future use
17	red	000-255	0-100%
18	green	000-255	0-100%
19	blue	000-255	0-100%
20	white	000-255	0-100%

53CH channel description:

Channel	Name	Value	Describe
1	Y1	000-255	0-200 degrees (Y direction, used with 26 channels)
2	Y1 fine	000-255	0-1degrees
3	Y2	000-255	0-200 degrees (Y direction, used with 26 channels)
4	Y2 fine	000-255	0-1degrees
5	Y3	000-255	0-200 degrees
6	Y3 fine	000-255	0-1degrees
7	Y4	000-255	0-200 degrees
8	Y4 fine	000-255	0-1degrees
9	Y5	000-255	0-200 degrees
10	Y5 fine	000-255	0-1degrees

11	Y6	000-255	0-200 degrees
12	Y6 fine	000-255	0-1degrees
13	Y7	000-255	0-200 degrees
14	Y7 fine	000-255	0-1degrees
15	Y8	000-255	0-200 degrees
16	Y8 fine	000-255	0-1degrees
17	Y9	000-255	0-200 degrees
18	Y9 fine	000-255	0-1degrees
19	Y10	000-255	0-200 degrees
20	Y10 fine	000-255	0-1degrees
21	Y11	000-255	0-200 degrees
22	Y11 fine	000-255	0-1degrees
23	Y12	000-255	0-200 degrees
24	Y12 fine	000-255	0-1degrees
25	Y macro velocity	000-255	From slow to fast
26	Y macro	000-003	No function
		004-255	4 values and 1 effect, a total of 63 effects
27	CTC	000-009	No function
		010-255	2100K-6500K
28	Color marco	000	No function
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
		087	Green R=0 G=255 B=0 W=0
		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
239	Blue R=0 G=0 B=255 W=0		
240- 247	Color fade, fast to slow		

		248-255	Color snap, fast to slow
29	Pattern	000	No function
		001-255	One value, one effect, a total of 255 patterns
30	LED effect	000-001	No function
		002-253	Two values and one effect, a total of 126 effects
		254-255	All effect loops
31	LED effect speed	000-255	From slow to fast
32	LED effect trailing	000-255	From fast to slow
33	LED background color	000-255	RGBW
34	LED background color tone light	000-255	0-100%
35	Total dimming	000-255	0-100%
36	Total Strobe	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		
37	Enlarge 1	000-255	Linear adjustment from width to width
38	Enlarge 2	000-255	Linear adjustment from width to width
39	Enlarge 3	000-255	Linear adjustment from width to width
40	Enlarge 4	000-255	Linear adjustment from width to width

41	Zoom in 5	000-255	Linear adjustment from width to width
42	Magnify 6	000-255	Linear adjustment from width to width
43	Magnify 7	000-255	Linear adjustment from width to width
44	Enlarge 8	000-255	Linear adjustment from width to width
45	Enlarge 9	000-255	Linear adjustment from width to width
46	Zoom in 10	000-255	Linear adjustment from width to width
47	Enlarge 11	000-255	Linear adjustment from width to width
48	Enlarge 12	000-255	Linear adjustment from width to width
49	Special Features	000-009	No function
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
		060-064	Zoom reset
		065-069	Quiet zoom reset
		070-074	All reset
		075-079	Cell order 1-12
		080-084	Cell order 12-1
		085-089	Reserved for future use
		090-094	Tilt reverse
		095-099	Reserved for future use
		100-104	Disable tilt reverse
		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
120-134	Reserved for future use		
135-139	Dimmer fast		
140-144	Dimmer smooth		
145-149	Linear		
150-154	Square		
155-159	I Squa		
160-164	S-Curve		
165-169	Reserved for future use		

		170-174	Reserved for future use
		175-179	PWM 600HZ
		180-184	PWM 1200HZ
		185-189	PWM 2000 HZ
		190-194	PWM 4000 HZ
		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
		205-255	Reserved for future use
50	Red	000-255	0-100%
51	Green	000-255	0-100%
52	Blue	000-255	0-100%
53	White	000-255	0-100%

101CH channel description:

Channel	Name	Value	Describe
1	Y1	000-255	0-200 degrees (Y-axis direction, used with 26 channels)
2	Y1 fine	000-255	0-1 degree
3	Y2	000-255	0-200 degrees (Y-axis direction, used with 26 channels)
4	Y2 fine	000-255	0-1 degree
5	Y3	000-255	0-200 degrees
6	Y3 fine	000-255	0-1 degree
7	Y4	000-255	0-200 degrees
8	Y4 fine	000-255	0-1 degree
9	Y5	000-255	0-200 degrees
10	Y5 fine	000-255	0-1 degree
11	Y6	000-255	0-200 degrees
12	Y6 fine	000-255	0-1 degree
13	Y7	000-255	0-200 degrees
14	Y7 fine	000-255	0-1 degree
15	Y8	000-255	0-200 degrees
16	Y8 fine	000-255	0-1 degree
17	Y9	000-255	0-200 degrees
18	Y9 fine	000-255	0-1 degree
19	Y10	000-255	0-200 degrees
20	Y10 fine	000-255	0-1 degree
21	Y11	000-255	0-200 degrees
22	Y11 fine	000-255	0-1 degree
23	Y12	000-255	0-200 degrees
24	Y12 fine	000-255	0-1 degree

25	Y macro velocity	000-255	From slow to fast
26	Y macro	000-003	No function
		004-255	4 values and 1 effect, a total of 63 effects
27	CTC	000-009	No function
		010-255	2100K-6500K
28	Color Macro	000	No function
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
		087	Green R=0 G=255 B=0 W=0
		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
		239	Blue R=0 G=0 B=255 W=0
		240- 247	Color fade, fast to slow
248-255	Color snap, fast to slow		
29	Pattern	000	No function
		001-255	One value, one effect, a total of 255 patterns
30	LED effect	000-001	No function
		002-253	Two values and one effect, a total of 126 effects
		254-255	All effect loops
31	LED effect speed	000-255	From slow to fast
32	LED effect trailing	000-255	From fast to slow
33	LED background color	000-255	RGBW
34	LED background color tone light	000-255	0-100%
35	Total dimming	000-255	0-100%
36	Total strobe	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
37	Enlarge 1	000-255	Linear adjustment from width to width
38	Enlarge 2	000-255	Linear adjustment from width to width
39	Enlarge 3	000-255	Linear adjustment from width to width
40	Enlarge 4	000-255	Linear adjustment from width to width
41	Zoom in 5	000-255	Linear adjustment from width to width
42	Magnify 6	000-255	Linear adjustment from width to width
43	Magnify 7	000-255	Linear adjustment from width to width
44	Enlarge 8	000-255	Linear adjustment from width to width
45	Enlarge 9	000-255	Linear adjustment from width to width
46	Zoom in 10	000-255	Linear adjustment from width to width
47	Enlarge 11	000-255	Linear adjustment from width to width
48	Enlarge 12	000-255	Linear adjustment from width to width
49	Special Features	000-009	No function
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
	060-064	Zoom reset	

		065-069	Quiet zoom reset
		070-074	All reset
		075-079	Cell order 1-12
		080-084	Cell order 12-1
		085-089	Reserved for future use
		090-094	Tilt reverse
		095-099	Reserved for future use
		100-104	Disable tilt reverse
		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
		120-134	Reserved for future use
		135-139	Dimmer fast
		140-144	Dimmer smooth
		145-149	Linear
		150-154	Square
		155-159	I Squa
		160-164	S-Curve
		165-169	Reserved for future use
		170-174	Reserved for future use
		175-179	PWM 600HZ
		180-184	PWM 1200HZ
		185-189	PWM 2000 HZ
		190-194	PWM 4000 HZ
		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
		205-255	Reserved for future use
50	Red	000-255	0-100%
51	Green	000-255	0-100%
52	Blue	000-255	0-100%
53	White	000-255	0-100%
54	Red 1	000-255	0-100%
55	Green 1	000-255	0-100%
56	Blue 1	000-255	0-100%
57	White 1	000-255	0-100%
58	Red 2	000-255	0-100%
59	Green 2	000-255	0-100%
60	Blue 2	000-255	0-100%
61	White 2	000-255	0-100%
62	Red 3	000-255	0-100%
63	Green 3	000-255	0-100%
64	Blue 3	000-255	0-100%

65	White 3	000-255	0-100%
66	Red 4	000-255	0-100%
67	Green 4	000-255	0-100%
68	Blue 4	000-255	0-100%
69	White 4	000-255	0-100%
70	Red 5	000-255	0-100%
71	Green 5	000-255	0-100%
72	Blue 5	000-255	0-100%
73	White 5	000-255	0-100%
74	Red 6	000-255	0-100%
75	Green 6	000-255	0-100%
76	Blue 6	000-255	0-100%
77	White 6	000-255	0-100%
78	Red 7	000-255	0-100%
79	Green 7	000-255	0-100%
80	Blue 7	000-255	0-100%
81	White 7	000-255	0-100%
82	Red 8	000-255	0-100%
83	Green 8	000-255	0-100%
84	Blue 8	000-255	0-100%
85	White 8	000-255	0-100%
86	Red 9	000-255	0-100%
87	Green 9	000-255	0-100%
88	Blue 9	000-255	0-100%
89	White 9	000-255	0-100%
90	Red 10	000-255	0-100%
91	Green 10	000-255	0-100%
92	Blue 10	000-255	0-100%
93	White 10	000-255	0-100%
94	Red 11	000-255	0-100%
95	Green 11	000-255	0-100%
96	Blue 11	000-255	0-100%
97	White 11	000-255	0-100%
98	Red 12	000-255	0-100%
99	Green 12	000-255	0-100%
100	Blue 12	000-255	0-100%
101	White 12	000-255	0-100%

155CH channel description:

Channel	Name	Value	Describe
1	Y1	000-255	0-200 degrees (Y direction, used with 26 channels)
2	Y1 fine	000-255	0-1degrees
3	Y2	000-255	0-200 degrees (Y direction, used with 26 channels)
4	Y2 fine	000-255	0-1degrees
5	Y3	000-255	0-200 degrees
6	Y3 fine	000-255	0-1degrees
7	Y4	000-255	0-200 degrees
8	Y4 fine	000-255	0-1degrees
9	Y5	000-255	0-200 degrees
10	Y5 fine	000-255	0-1degrees
11	Y6	000-255	0-200 degrees
12	Y6 fine	000-255	0-1degrees
13	Y7	000-255	0-200 degrees
14	Y7 fine	000-255	0-1degrees
15	Y8	000-255	0-200 degrees
16	Y8 fine	000-255	0-1degrees
17	Y9	000-255	0-200 degrees
18	Y9 fine	000-255	0-1degrees
19	Y10	000-255	0-200 degrees
20	Y10 fine	000-255	0-1degrees
21	Y11	000-255	0-200 degrees
22	Y11 fine	000-255	0-1degrees
23	Y12	000-255	0-200 degrees
24	Y12 fine	000-255	0-1degrees
25	Y macro velocity	000-255	From slow to fast
26	Y macro	000-003	No function
		004-255	4 values and 1 effect, a total of 63 effects
27	CTC	000-009	No function
		010-255	2100K-6500K
28	Color Macro	000	No function
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
087	Green R=0 G=255 B=0 W=0		

		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
		239	Blue R=0 G=0 B=255 W=0
		240- 247	Color fade, fast to slow
		248-255	Color snap, fast to slow
29	Pattern	000	No function
		001-255	One value, one effect, a total of 255 patterns
30	LED effect	000-001	No function
		002-253	Two values and one effect, a total of 126 effects
		254-255	All effect loops
31	LED effect speed	000-255	From slow to fast
32	LED effect trailing	000-255	From fast to slow
33	LED background color	000-255	RGBW
34	LED background color tone light	000-255	0-100%
35	LLED background color tone light fine	000-255	background color tone light fine
36	Total dimming ¹²	000-255	0-100%
37	Total dimming fine ¹²	000-255	dimming fine
38	Strobe	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
39	Enlarge 1	000-255	Linear adjustment from width to width
40	Enlarge 2	000-255	Linear adjustment from width to width
41	Enlarge 3	000-255	Linear adjustment from width to width
42	Enlarge 4	000-255	Linear adjustment from width to width
43	Zoom in 5	000-255	Linear adjustment from width to width
44	Magnify 6	000-255	Linear adjustment from width to width
45	Magnify 7	000-255	Linear adjustment from width to width
46	Enlarge 8	000-255	Linear adjustment from width to width
47	Enlarge 9	000-255	Linear adjustment from width to width
48	Zoom in 10	000-255	Linear adjustment from width to width
49	Enlarge 11	000-255	Linear adjustment from width to width
50	Enlarge 12	000-255	Linear adjustment from width to width
51	Special Features	000-009	No function
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
		060-064	Zoom reset
		065-069	Quiet zoom reset
		070-074	All reset
		075-079	Cell order 1-12
		080-084	Cell order 12-1
	085-089	Reserved for future use	
	090-094	Tilt reverse	
	095-099	Reserved for future use	
	100-104	Disable tilt reverse	

		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
		120-134	Reserved for future use
		135-139	Dimmer fast
		140-144	Dimmer smooth
		145-149	Linear
		150-154	Square
		155-159	I Squa
		160-164	S-Curve
		165-169	Reserved for future use
		170-174	Reserved for future use
		175-179	PWM 600HZ
		180-184	PWM 1200HZ
		185-189	PWM 2000 HZ
		190-194	PWM 4000 HZ
		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
		205-255	Reserved for future use
52	Red	000-255	0-100%
53	Red fine	000-255	Red fine
54	Green	000-255	0-100%
55	Green fine	000-255	Green fine
56	Blue	000-255	0-100%
57	Blue fine	000-255	Blue fine
58	Whtie	000-255	0-100%
59	Whtie fine	000-255	Whtie fine
60	Red 1	000-255	0-100%
61	Red fine1	000-255	Red fine
62	Green 1	000-255	0-100%
63	Green fine1	000-255	Green fine
64	Blue	000-255	0-100%
65	Blue fine 1	000-255	Blue fine
66	Whtie	000-255	0-100%
67	Whtie fine 1	000-255	Whtie fine
68	Red 2	000-255	0-100%
69	Red fine 2	000-255	Red fine
70	Green 2	000-255	0-100%
71	Green fine 2	000-255	Green fine
72	Blue 2	000-255	0-100%
73	Blue fine 2	000-255	Blue fine

74	White 2	000-255	0-100%
75	White fine 2	000-255	White fine
76	Red 3	000-255	1-100%
77	Red fine 3	000-255	Red fine
78	Green 3	000-255	1-100%
79	Green fine 3	000-255	Green fine
80	Blue 3	000-255	1-100%
81	Blue fine 3	000-255	Blue fine
82	White 3	000-255	1-100%
83	White fine 3	000-255	White fine
84	Red 4	000-255	1-100%
85	Red fine 4	000-255	Red fine
86	Green 4	000-255	1-100%
87	Green fine 4	000-255	Green fine
88	Blue 4	000-255	1-100%
89	Blue fine 4	000-255	Blue fine
90	White 4	000-255	1-100%
91	White fine 4	000-255	White fine
92	Red 5	000-255	1-100%
93	Red fine 5	000-255	Red fine
94	Green 5	000-255	1-100%
95	Green fine 5	000-255	Green fine
96	Blue 5	000-255	1-100%
97	Blue fine 5	000-255	Blue fine
98	White 5	000-255	1-100%
99	White fine 5	000-255	White fine
100	Red 6	000-255	1-100%
101	Red fine 6	000-255	Red fine
102	Green 6	000-255	1-100%
103	Green fine 6	000-255	Green fine
104	Blue 6	000-255	1-100%
105	Blue fine 6	000-255	Blue fine
106	White 6	000-255	1-100%
107	White fine 6	000-255	White fine
108	Red 7	000-255	1-100%
109	Red fine 7	000-255	Red fine
110	Green 7	000-255	1-100%
111	Green fine 7	000-255	Green fine
112	Blue 7	000-255	1-100%
113	Blue fine 7	000-255	Blue fine
114	White 7	000-255	1-100%

115	White fine 7	000-255	White fine
116	Red 8	000-255	1-100%
117	Red fine 8	000-255	Red fine
118	Green 8	000-255	1-100%
119	Green fine 8	000-255	Green fine
120	Blue 8	000-255	1-100%
121	Blue fine 8	000-255	Blue fine
122	White 8	000-255	1-100%
123	White fine 8	000-255	White fine
124	Red 9	000-255	1-100%
125	Red fine 9	000-255	Red fine
126	Green 9	000-255	1-100%
127	Green fine 9	000-255	Green fine
128	Blue 9	000-255	1-100%
129	Blue fine 9	000-255	Blue fine
130	White 9	000-255	1-100%
131	White fine 9	000-255	White fine
132	Red 10	000-255	1-100%
133	Red fine 10	000-255	Red fine
134	Green 10	000-255	1-100%
135	Green fine 10	000-255	Green fine
136	Blue 10	000-255	1-100%
137	Blue fine 10	000-255	Blue fine
138	White 10	000-255	1-100%
139	White fine 10	000-255	White fine
140	Red 11	000-255	1-100%
141	Red fine 11	000-255	Red fine
142	Green 11	000-255	1-100%
143	Green fine 11	000-255	Green fine
144	Blue 11	000-255	1-100%
145	Blue fine 11	000-255	Blue fine
146	White 11	000-255	1-100%
147	White fine 11	000-255	White fine
148	Red 12	000-255	1-100%
149	Red fine 12	000-255	Red fine
150	Green 12	000-255	1-100%
151	Green fine 12	000-255	Green fine
152	Blue 12	000-255	1-100%
153	Blue fine 12	000-255	Blue fine
154	White 12	000-255	1-100%
155	White fine 12	000-255	White fine

169CH channel description :

Channel	Name	Value	Describe
1	Special Features	000-009	No functior
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
		060-064	Zoom reset
		065-069	Quiet zoom reset
		070-074	All reset
		075-079	Cell order 1-12
		080-084	Cell order 12-1
		085-089	Reservedder future use
		090-094	Tilt reverse
		095-099	Reserved for future use
		100-104	Disable tilt reverse
		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
		120-134	Reserved for future use
		135-139	Dimmer fast
		140-144	Dimmer smooth
		145-149	Linear
		150-154	Square
		155-159	I Squa
		160-164	S-Curve
		165-169	Reserved for future use
		170-174	Reserved for future use
175-179	PWM 600HZ		
180-184	PWM 1200HZ		
185-189	PWM 2000 HZ		
190-194	PWM 4000 HZ		

		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
2	Y macro velocity	000-255	From slow to fast
3	Y macro	000-003	No funtion
		004-255	4 values and 1 effect, a total of 63 effects
4	CTC	000-009	No funtion
		010-255	2100K-6500K
5	Color Macro	000	No funtion
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
		087	Green R=0 G=255 B=0 W=0
		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
		239	Blue R=0 G=0 B=255 W=0
		248-255	Color snap, fast to slow
6	Pattern	000	No funtion
		001-255	One value, one effect, a total of 255 patterns
7	LED effect	000-001	No funtion
		002-253	4 values and 1 effect, a total of 63 effects
		254-255	All effect loops
8	LED effect speed	000-255	From slow to fast
9	LEDeffect trailing	000-255	From fast to slow
10	LED background color	000-255	RGBW
11	LED background color tone light	000-255	1-100%
12	LED background color tone light	000-255	LED background color tone light fine

	fine		
13		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		
	Total dimming	245-255	On
14	Y 1	000-255	0-200 degrees (Y direction, used with 26 channels)
15	Y fine 1	000-255	0-1 degree
16	Enlarge 1	000-255	Linear adjustment from width to width
17	Dimming 1	000-255	1-100%
18	Dimming fine 1	000-255	Dimming fine-tuning control
19	Red 1	000-255	1-100%
20	Red fine 1	000-255	Red fine
21	Green 1	000-255	1-100%
22	Green fine 1	000-255	Green fine
23	Blue 1	000-255	1-100%
24	Blue fine 1	000-255	Blue fine
25	White 1	000-255	1-100%
26	White fine 1	000-255	White fine
27	Y 2	000-255	0-200 degrees (Y direction, used with 3 channels)
28	Y fine 2	000-255	0-1degrees
29	Enlarge 2	000-255	Linear adjustment from width to width
30	Dimming 2	000-255	1-100%
31	Dimming fine 2	000-255	Dimming fine-tuning control

32	Red 2	000-255	1-100%
33	Red 2	000-255	Red fine
34	Green 2	000-255	0-100%
35	Green fine 2	000-255	Green fine
36	Blue 2	000-255	0-100%
37	Blue fine 2	000-255	Blue fine
38	White 2	000-255	0-100%
39	White fine 2	000-255	White fine
40	Y 3	000-255	0-2000 degrees
41	Y fine 3	000-255	0-1 degree
42	Enlarge 3	000-255	Linear adjustment from width to width
43	Dimming 3	000-255	0-100%
44	Dimming fine 3	000-255	Dimming fine
45	Red 3	000-255	0-100%
46	Red fine 3	000-255	Red fine
47	Green 3	000-255	0-100%
48	Green fine 3	000-255	Green fine
49	Blue 3	000-255	0-100%
50	Blue fine 3	000-255	Blue fine
51	White 3	000-255	0-100%
52	White fine 3	000-255	White fine
53	Y 4	000-255	0-200 degrees
54	Y fine 4	000-255	0-1 degree
55	Enlarge 4	000-255	Linear adjustment from width to width
56	Dimming 4	000-255	0-100%
57	Dimming fine 4	000-255	Dimming fine
58	Red 4	000-255	0-100%
59	Red fine 4	000-255	Red fine
60	Green 4	000-255	0-100%
61	Green fine 4	000-255	Green fine
62	Blue 4	000-255	0-100%
63	Blue fine 4	000-255	Blue fine
64	White 4	000-255	0-100%
65	White fine 4	000-255	White fine
66	Y 5	000-255	0-200 degrees
67	Y fine 5	000-255	0-1 degree
68	Enlarge 5	000-255	Linear adjustment from width to width
69	Dimming 5	000-255	0-100%
70	Dimming fine 5	000-255	Dimming fine
71	Y 5	000-255	0-100%
72	Y fine 5	000-255	Red fine

73	Green 5	000-255	0-100%
74	Green fine 5	000-255	Green fine
75	Blue 5	000-255	0-100%
76	Blue fine 5	000-255	Blue fine
77	White 5	000-255	0-100%
78	White fine 5	000-255	White fine
79	Y 6	000-255	0-200 degrees
80	Y fine 6	000-255	0-1degrees
81	Enlarge 6	000-255	Linear adjustment from width to width
82	Dimming 6	000-255	0-100%
83	Dimming fine 6	000-255	Dimming fine
84	Red 6	000-255	0-100%
85	Red fine 6	000-255	Red fine
86	Green 6	000-255	0-100%
87	Green fine 6	000-255	Green fine
88	Blue 6	000-255	0-100%
89	Blue fine 6	000-255	Blue fine
90	White 6	000-255	0-100%
91	White fine 6	000-255	White fine
92	Y 7	000-255	0-200 degrees
93	Y fine 7	000-255	0-1degrees
94	Enlarge 7	000-255	Linear adjustment from width to width
95	Dimming 7	000-255	0-100%
96	Dimming fine 6	000-255	Dimming fine
97	Red 7	000-255	0-100%
98	Red fine 7	000-255	Red fine
99	Green 7	000-255	0-100%
100	Green fine 7	000-255	Green fine
101	Blue 7	000-255	0-100%
102	Blue fine 7	000-255	Blue fine
103	White 7	000-255	0-100%
104	White fine 7	000-255	White fine
105	Y 8	000-255	0-200 degrees
106	Y fine 8	000-255	0-1degrees
107	Enlarge 8	000-255	Linear adjustment from width to width
108	Dimming 8	000-255	0-100%
109	Dimming fine 8	000-255	Dimming fine
110	Red 8	000-255	0-100%
111	Red fine 8	000-255	Red fine
112	Green 8	000-255	0-100%
113	Green fine 8	000-255	Green fine

114	Blue 8	000-255	0-100%
115	Blue fine 8	000-255	Blue fine
116	White 8	000-255	0-100%
117	White fine 8	000-255	White fine
118	Y 9	000-255	0-200 degrees
119	Y fine 9	000-255	0-1degrees
120	Enlarge 9	000-255	Linear adjustment from width to width
121	Dimming 9	000-255	0-100%
122	Dimming fine 9	000-255	Dimming fine
123	Red 9	000-255	0-100%
124	Red fine 9	000-255	Red fine
125	Green 9	000-255	0-100%
126	Green fine 9	000-255	Green fine
127	Blue 8	000-255	0-100%
128	Blue fine 9	000-255	Blue fine
129	White 9	000-255	0-100%
130	White fine 9	000-255	White fine
131	Y 10	000-255	0-200 degrees
132	Y fine 10	000-255	0-1degrees
133	Enlarge 10	000-255	Linear adjustment from width to width
134	Dimming 10	000-255	0-100%
135	Dimming fine 10	000-255	Dimming fine
136	Red 10	000-255	0-100%
137	Red fine 10	000-255	Red fine
138	Green 10	000-255	0-100%
139	Green fine 10	000-255	Green fine
140	Blue 10	000-255	0-100%
141	Blue fine 10	000-255	Blue fine
142	White 10	000-255	0-100%
143	White fine 10	000-255	White fine
144	Y 11	000-255	0-200 degrees
145	Y fine 11	000-255	0-1degrees
146	Enlarge 11	000-255	Linear adjustment from width to width
147	Dimming 11	000-255	0-100%
148	Dimming fine 11	000-255	Dimming fine
149	Red 11	000-255	0-100%
150	Red fine 11	000-255	Red fine
151	Green 11	000-255	0-100%
152	Green fine 11	000-255	Green fine
153	Blue 11	000-255	0-100%
154	Blue fine 11	000-255	Blue fine

155	White 11	000-255	0-100%
156	White fine 11	000-255	White fine
157	Y 12	000-255	0-200 degrees
158	Y fine 12	000-255	0-1degrees
159	Enlarge 12	000-255	Linear adjustment from width to width
160	Dimming 12	000-255	0-100%
161	Dimming fine 12	000-255	Dimming fine
162	Red 12	000-255	0-100%
163	Red fine 12	000-255	Red fine
164	Green 12	000-255	0-100%
165	Green fine 12	000-255	Green fine
166	Blue 12	000-255	0-100%
167	Blue fine 12	000-255	Blue fine
168	White 12	000-255	0-100%
169	White fine 12	000-255	White fine

169BCH channel description:

Channel	Name	Value	describe
1	Y 1	000-255	0-200 degrees
2	Y fine 1	000-255	0-1degrees
3	Enlarge 1	000-255	Linear adjustment from width to width
4	Dimming 1	000-255	0-100%
5	Dimming fine 1	000-255	Dimming fine
6	Strobe 1	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
7	Red 1	000-255	1-100%
8	Red fine 1	000-255	Red fine
9	Green 1	000-255	1-100%
10	Green fine 1	000-255	Green fine
11	Blue 1	000-255	1-100%
12	Blue fine 1	000-255	Blue fine
13	White 1	000-255	1-100%
14	White fine 1	000-255	White fine
15	Y 2	000-255	0-200 degrees
16	Y fine 2	000-255	0-1degrees
17	Enlarge 2	000-255	Linear adjustment from width to width
18	Dimming 2	000-255	0-100%
19	Dimming fine 2	000-255	Dimming fine
20	Strobe 2	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		

21	Red 2	000-255	1-100%
22	Red fine 2	000-255	Red fine
23	Green 2	000-255	1-100%
24	Green fine 2	000-255	Green fine
25	Blue 2	000-255	1-100%
26	Blue fine 2	000-255	Blue fine
27	White 2	000-255	1-100%
28	White fine 2	000-255	White fine
29	Y 3	000-255	0-200 degrees
30	Y fine 3	000-255	0-1degrees
31	Enlarge 3	000-255	Linear adjustment from width to width
32	Dimming 3	000-255	0-100%
33	Dimming fine 3	000-255	Dimming fine
34	Strobe 3	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		
35	Red 3	000-255	1-100%
36	Red fine 3	000-255	Red fine
37	Green 3	000-255	1-100%
38	Green fine 3	000-255	Green fine
39	Blue 3	000-255	1-100%
40	Blue fine 3	000-255	Blue fine

41	White 3	000-255	1-100%
42	White fine 3	000-255	White fine
43	Y 4	000-255	0-200 degrees
44	Y fine 4	000-255	0-1degrees
45	Enlarge 4	000-255	Linear adjustment from width to width
46	Dimming 4	000-255	0-100%
47	Dimming fine 4	000-255	Dimming fine
48	Strobe 4	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		
49	Red 4	000-255	1-100%
50	Red fine 4	000-255	Red fine
51	Green 4	000-255	1-100%
52	Green fine 4	000-255	Green fine
53	Blue 4	000-255	1-100%
54	Blue fine 4	000-255	Blue fine
55	White 4	000-255	1-100%
56	White fine 4	000-255	White fine
57	Y 5	000-255	0-200 degrees
58	Y fine 5	000-255	0-1degrees
59	Enlarge 5	000-255	Linear adjustment from width to width
60	Dimming 5	000-255	0-100%

61	Dimming fine 5	000-255	Dimming fine
62	Strobe 5	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		
63	Red 5	000-255	1-100%
64	Red fine 5	000-255	Red fine
65	Green 5	000-255	1-100%
66	Green fine 5	000-255	Green fine
67	Blue 5	000-255	1-100%
68	Blue fine 5	000-255	Blue fine
69	White 5	000-255	1-100%
70	White fine 5	000-255	White fine
71	Y 6	000-255	0-200 degrees
72	Y fine 6	000-255	0-1degrees
73	Enlarge 6	000-255	Linear adjustment from width to width
74	Dimming 6	000-255	0-100%
75	Dimming fine 6	000-255	Dimming fine
76	Strobe 6	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
77	Red 6	000-255	1-100%
78	Red fine 6	000-255	Red fine
79	Green 6	000-255	1-100%
80	Green fine 6	000-255	Green fine
81	Blue 6	000-255	1-100%
82	Blue fine 6	000-255	Blue fine
83	White 6	000-255	1-100%
84	White fine 6	000-255	White fine
85	Y 7	000-255	0-200 degrees
86	Y fine 7	000-255	0-1degrees
87	Enlarge 7	000-255	Linear adjustment from width to width
88	Dimming 7	000-255	0-100%
89	Dimming fine 7	000-255	Dimming fine
90	Strobe 7	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
91	Red 7	000-255	1-100%
92	Red fine 7	000-255	Red fine
93	Green 7	000-255	1-100%
94	Green fine 7	000-255	Green fine
95	Blue 7	000-255	1-100%
96	Blue fine 7	000-255	Blue fine
97	White 7	000-255	1-100%
98	White fine 7	000-255	White fine
99	Y 8	000-255	0-200 degrees
100	Y fine 8	000-255	0-1degrees
101	Enlarge 8	000-255	Linear adjustment from width to width
102	Dimming 8	000-255	0-100%
103	Dimming fine 8	000-255	Dimming fine
104	Strobe 8	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
105	Red 8	000-255	1-100%
106	Red fine 8	000-255	Red fine
107	Green 8	000-255	1-100%
108	Green fine 8	000-255	Green fine
109	Blue 8	000-255	1-100%
110	Blue fine 8	000-255	Blue fine
111	White 8	000-255	1-100%
112	White fine 8	000-255	White fine
113	Y 9	000-255	0-200 degrees
114	Y fine 9	000-255	0-1degrees
115	Enlarge 9	000-255	Linear adjustment from width to width
116	Dimming 9	000-255	0-100%
117	Dimming fine 9	000-255	Dimming fine
118	Strobe 9	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		
119	Red 9	000-255	1-100%

120	Red fine 9	000-255	Red fine
121	Green 9	000-255	1-100%
122	Green fine 9	000-255	Green fine
123	Blue 9	000-255	1-100%
124	Blue fine 9	000-255	Blue fine
125	White 9	000-255	1-100%
126	White fine 9	000-255	White fine
127	Y 11	000-255	0-200 degrees
128	Y fine 11	000-255	0-1degrees
129	Enlarge 11	000-255	Linear adjustment from width to width
130	Dimming 11	000-255	0-100%
131	Dimming fine 11	000-255	Dimming fine
132	Strobe 11	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		
133	Red 11	000-255	1-100%
134	Red fine 11	000-255	Red fine
135	Green 11	000-255	1-100%
136	Green fine 11	000-255	Green fine
137	Blue 11	000-255	1-100%
138	Blue fine 11	000-255	Blue fine
139	White 11	000-255	1-100%

140	White fine 11	000-255	White fine
141	Y 11	000-255	0-200 degrees
142	Y fine 11	000-255	0-1degrees
143	Enlarge 11	000-255	Linear adjustment from width to width
144	Dimming 11	000-255	0-100%
145	Dimming fine 11	000-255	Dimming fine
146	Strobe 11	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		
147	Red 11	000-255	1-100%
148	Red fine 11	000-255	Red fine
149	Green 11	000-255	1-100%
150	Green fine 11	000-255	Green fine
151	Blue 11	000-255	1-100%
152	Blue fine 11	000-255	Blue fine
153	White 11	000-255	1-100%
154	White fine 11	000-255	White fine
155	Y 12	000-255	0-200 degrees
156	Y fine 12	000-255	0-1degrees
157	Enlarge 12	000-255	Linear adjustment from width to width
158	Dimming 12	000-255	0-100%
159	Dimming fine 12	000-255	Dimming fine

160	Strobe 12	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		
161	Red 12	000-255	1-100%
162	Red fine 12	000-255	Red fine
163	Green 12	000-255	1-100%
164	Green fine 12	000-255	Green fine
165	Blue 12	000-255	1-100%
166	Blue fine 12	000-255	Blue fine
167	White 12	000-255	1-100%
168	White fine 12	000-255	White fine
169	Special Features	000-009	No functior
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset

	060-064	Zoom reset
	065-069	Quiet zoom reset
	070-074	All reset
	075-079	Cell order 1-12
	080-084	Cell order 12-1
	085-089	Reserved for future use
	090-094	Tilt reverse
	095-099	Reserved for future use
	100-104	Disable tilt reverse
	105-109	Reserved for future use
	110-114	Reserved for future use
	115-119	Reserved for future use
	120-134	Reserved for future use
	135-139	Dimmer fast
	140-144	Dimmer smooth
	145-149	Linear
	150-154	Square
	155-159	I Squa
	160-164	S-Curve
	165-169	Reserved for future use
	170-174	Reserved for future use
	175-179	PWM 600HZ
	180-184	PWM 1200HZ
	185-189	PWM 2000 HZ
	190-194	PWM 4000 HZ
	195-199	PWM 6000 HZ
	200-204	PWM 15000 HZ
	205-255	Reserved for future use

179CH channel description :

Channel	Name	Value	describe
1	Y 1	000-255	0-200 degrees (Y direction, used with 26 channels)
2	Y fine 1	000-255	0-1 degree
3	Y 2	000-255	0-200 degrees (Y direction, used with 26 channels)
4	Y fine 2	000-255	0-1 degree
5	Y 3	000-255	0-200 degrees
6	Y fine 3	000-255	0-1 degree
7	Y 4	000-255	0-200 degrees
8	Y fine 4	000-255	0-1 degree
9	Y 5	000-255	0-200 degrees

10	Y fine 5	000-255	0-1 degree
11	Y 6	000-255	0-200 degrees
12	Y fine 6	000-255	0-1 degree
13	Y 7	000-255	0-200 degrees
14	Y fine 7	000-255	0-1 degree
15	Y 8	000-255	0-200 degrees
16	Y fine 8	000-255	0-1 degree
17	Y 9	000-255	0-200 degrees
18	Y fine 9	000-255	0-1 degree
19	Y 10	000-255	0-200 degrees
20	Y fine 10	000-255	0-1 degree
21	Y 11	000-255	0-200 degrees
22	Y fine 11	000-255	0-1 degree
23	Y 12	000-255	0-200 degrees
24	Y fine 12	000-255	0-1 degree
25	Y macro velocity	000-255	From slow to fast
26	Y macro	000-003	No function
		004-255	4 values and 1 effect, a total of 63 effects
27	CTC	000-009	No function
		010-255	2100K-6500K
28	Color Macro	000	No function
		001- 002	White 2700K R=156 G=118 B=0 W=63
		003- 004	White 3200K R=156 G=141 B=5 W=89
		005- 006	White 4200K R=156 G=141 B=14 W=255
		007- 008	White 5600K R=156 G=207 B=54 W=255
		009- 010	White 8000K R=130 G=255 B=96 W=255
		011	Blue R=0 G=0 B=255 W=0
		012- 048	+ Green R=0 G=0-255 B=255 W=0
		049	Cyan R=0 G=255 B=255 W=0
		050- 086	-Blue R=0 G=255 B=255-0 W=0
		087	Green R=0 G=255 B=0 W=0
		088- 124	+ Red R=0-255 G=255 B=0 W=0
		125	Yellow R=255 G=255 B=0 W=0
		126- 162	-Green R=255 G=255-0 B=0 W=0
		163	Red R=255 G=0 B=0 W=0
		164- 200	+ Blue R=255 G=0 B=0-255 W=0
		201	Magenta R=255 G=0 B=255 W=0
		202- 238	-Red R=255-0 G=0 B=255 W=0
		239	Blue R=0 G=0 B=255 W=0
240- 247	Color fade, fast to slow		
248-255	Color snap, fast to slow		

29	Pattern	000	No function
		001-255	One value, one effect, a total of 255 patterns
30	LED effect	000-001	No function
		002-253	Two values and one effect, a total of 126 effects
		254-255	All effect loops
31	LED effect speed	000-255	From slow to fast
32	LED effect trailing	000-255	From fast to slow
33	LED background color	000-255	RGBW
34	LED background color tone light	000-255	0-100% dimming
35	LED background color tone light fine-tuning	000-255	0-100% dimming fine
36	Total dimming 12	000-255	Linear dimming from dark to bright
37	Total dimming adjustment 12	000-255	Dimming fine-tuning control
38	Total flicker	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		
39	Enlarge 1	000-255	Linear adjustment from width to width
40	Enlarge 2	000-255	Linear adjustment from width to width
41	Enlarge 3	000-255	Linear adjustment from width to width
42	Enlarge 4	000-255	Linear adjustment from width to width

43	Zoom in 5	000-255	Linear adjustment from width to width
44	Magnify 6	000-255	Linear adjustment from width to width
45	Magnify 7	000-255	Linear adjustment from width to width
46	Enlarge 8	000-255	Linear adjustment from width to width
47	Enlarge 9	000-255	Linear adjustment from width to width
48	Zoom in 10	000-255	Linear adjustment from width to width
49	Enlarge 11	000-255	Linear adjustment from width to width
50	Enlarge 12	000-255	Linear adjustment from width to width
51	Special Features	000-009	No function
		010-014	Blackout on tilt on
		015-019	Blackout on tilt Off
		020-024	RGBW (additive)colormixing mode
		025-029	CMY(subtractive)colormixing mode
		030-034	Combine heads
		035-039	Disable combine heads
		040-044	Reserved for future use
		045-049	Reserved for future use
		050-054	Reserved for future use
		055-059	Tilt reset
		060-064	Zoom reset
		065-069	Quiet zoom reset
		070-074	All reset
		075-079	Cell order 1-12
		080-084	Cell order 12-1
		085-089	Reserved for future use
		090-094	Tilt reverse
		095-099	Reserved for future use
		100-104	Disable tilt reverse
		105-109	Reserved for future use
		110-114	Reserved for future use
		115-119	Reserved for future use
		120-134	Reserved for future use
		135-139	Dimmer fast
		140-144	Dimmer smooth
145-149	Linear		
150-154	Square		
155-159	I Squa		
160-164	S-Curve		
165-169	Reserved for future use		
170-174	Reserved for future use		
175-179	PWM 600HZ		

		180-184	PWM 1200HZ
		185-189	PWM 2000 HZ
		190-194	PWM 4000 HZ
		195-199	PWM 6000 HZ
		200-204	PWM 15000 HZ
		205-255	Reserved for future use
52	Red	000-255	0-100%
53	Red fine	000-255	Red fine
54	Green	000-255	0-100%
55	Green fine	000-255	Green fine
56	Blue	000-255	0-100%
57	Blue fine	000-255	Blue fine
58	White	000-255	0-100%
59	White fine	000-255	White fine
60	Dimming 1	000-255	0-100%
61	Dimming fine 1	000-255	Dimming fine
62	Red 1	000-255	0-100%
63	Red fine 1	000-255	Red fine
64	Green 1	000-255	0-100%
65	Green fine 1	000-255	Green fine
66	Blue 1	000-255	0-100%
67	Blue fine 1	000-255	Blue fine
68	White 1	000-255	0-100%
69	White fine 1	000-255	White fine
70	Dimming 2	000-255	0-100%
71	Dimming fine 2	000-255	Dimming fine
72	Red 2	000-255	0-100%
73	Red fine 2	000-255	Red fine
74	Green 2	000-255	0-100%
75	Green fine 2	000-255	Green fine
76	Blue 2	000-255	0-100%
77	Blue fine 2	000-255	Blue fine
78	White 2	000-255	0-100%
79	White fine 2	000-255	White fine
80	Dimming 3	000-255	0-100%
81	Dimming fine 3	000-255	Dimming fine
82	Red 3	000-255	0-100%
83	Red fine 3	000-255	Red fine

84	Green 3	000-255	0-100%
85	Green fine 3	000-255	Green fine
86	Blue 3	000-255	0-100%
87	Blue fine 3	000-255	Blue fine
88	White 3	000-255	0-100%
89	White fine 3	000-255	White fine
90	Dimming 4	000-255	0-100%
91	Dimming fine 4	000-255	Dimming fine
92	Red 4	000-255	0-100%
93	Red fine 4	000-255	Red fine
94	Green 4	000-255	0-100%
95	Green fine 4	000-255	Green fine
96	Blue 4	000-255	0-100%
97	Blue fine 4	000-255	Blue fine
98	White 4	000-255	0-100%
99	White fine 4	000-255	White fine
100	Dimming 5	000-255	0-100%
101	Dimming fine 5	000-255	Dimming fine
102	Red 5	000-255	0-100%
103	Red fine 5	000-255	Red fine
104	Green 5	000-255	0-100%
105	Green fine 5	000-255	Green fine
106	Blue 5	000-255	0-100%
107	Blue fine 5	000-255	Blue fine
108	White 5	000-255	0-100%
109	White fine 5	000-255	White fine
110	Dimming 6	000-255	0-100%
111	Dimming fine 6	000-255	Dimming fine
112	Red 6	000-255	0-100%
113	Red fine 6	000-255	Red fine
114	Green 6	000-255	0-100%
115	Green fine 6	000-255	Green fine
116	Blue 6	000-255	0-100%
117	Blue fine 6	000-255	Blue fine
118	White 6	000-255	0-100%
119	White fine 6	000-255	White fine
120	Dimming 7	000-255	0-100%
121	Dimming fine 7	000-255	Dimming fine
122	Red 7	000-255	0-100%
123	Red fine 7	000-255	Red fine
124	Green 7	000-255	0-100%

125	Green fine 7	000-255	Green fine
126	Blue 7	000-255	0-100%
127	Blue fine 7	000-255	Blue fine
128	White 7	000-255	0-100%
129	White fine 7	000-255	White fine
130	Dimming 8	000-255	0-100%
131	Dimming fine 8	000-255	Dimming fine
132	Red 8	000-255	0-100%
133	Red fine 8	000-255	Red fine
134	Green 8	000-255	0-100%
135	Green fine 8	000-255	Green fine
136	Blue 8	000-255	0-100%
137	Blue fine 8	000-255	Blue fine
138	White 8	000-255	0-100%
139	White fine 8	000-255	White fine
140	Dimming 9	000-255	0-100%
141	Dimming fine 9	000-255	Dimming fine
142	Red 9	000-255	0-100%
143	Red fine9	000-255	Red fine
144	Green 9	000-255	0-100%
145	Green fine 9	000-255	Green fine
146	Blue 9	000-255	0-100%
147	Blue fine 9	000-255	Blue fine
148	White 9	000-255	0-100%
149	White fine 9	000-255	White fine
150	Dimming 10	000-255	0-100%
151	Dimming fine 10	000-255	Dimming fine
152	Red 10	000-255	0-100%
153	Red fine 10	000-255	Red fine
154	Green 10	000-255	0-100%
155	Green fine 10	000-255	Green fine
156	Blue 10	000-255	0-100%
157	Blue fine 10	000-255	Blue fine
158	White 10	000-255	0-100%
159	White fine 10	000-255	White fine
160	Dimming 11	000-255	0-100%
161	Dimming fine 11	000-255	Dimming fine
162	Red 11	000-255	0-100%
163	Red fine 11	000-255	Red fine
164	Green 11	000-255	0-100%

165	Green fine 11	000-255	Green fine
166	Blue 11	000-255	0-100%
167	Blue fine 11	000-255	Blue fine
168	White 11	000-255	0-100%
169	White fine 11	000-255	White fine
170	Dimming 12	000-255	0-100%
171	Dimming fine 12	000-255	Dimming fine
172	Red 12	000-255	0-100%
173	Red fine 12	000-255	Red fine
174	Green 12	000-255	0-100%
175	Green fine 12	000-255	Green fine
176	Blue 12	000-255	0-100%
177	Blue fine 12	000-255	Blue fine
178	White 12	000-255	0-100%
179	White fine 12	000-255	White fine

Fault handling

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

1. The light bulb does not light up (except for LED light sources)

Possible reasons: The bulb has not completely cooled down, or the bulb has reached its lifespan. The following measures should be taken:

- Due to abnormal operation, the bulb has not completely cooled down. The lamp body should be allowed to cool for more than 10 minutes to fully restore its internal normal state, and then the power should be restarted;
- Check if the light bulb has reached its service life and replace it with a new one;
- Check if there is any leakage, detachment or poor contact between the light bulb and the lighting circuit;
- Replace the lamp with a new one.

2. The beam appears dim

Possible reasons: The light bulb has been used for a long time or the light path is not clean. The following measures should be taken:

- Check if the light bulb has reached its service life and replace it with a new one;
- Check whether the optical components or light bulbs are clean, whether there is dust accumulation on the light bulbs and other optical components, and regularly clean and maintain the light bulbs and various components inside the lamp.

Pattern projection blurred

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

The lighting fixtures work intermittently

Possible reason: The internal circuit has entered a protected state, and the following measures should be taken:

- Check if the fan is running normally or if it has become dirty, causing an increase in the internal temperature of the lighting fixture;
- Check if the internal temperature control switch is in the closed state;
- Check if the light bulb has reached its service life and replace it with a new one.

The lamp does not accept control from the console after normal reset

Possible reasons: Signal line malfunction or abnormal lighting parameter settings. The following are the solutions:

- Check the starting address code and the connection status of the DMX signal cable (whether the signal cable is intact and whether the connector is loose);
- Add a signal amplifier and a 120 ohm terminal resistor;

3. The lamp cannot be started

Possible cause: Poor power supply circuit. The following measures should be taken:

- Check if the fuse on the power input socket is blown and replace the fuse;
- Poor contact of the circuit caused by vibration during long-distance transportation of lighting fixtures

Check the input power supply, computer board, and other plug-in components.

Equipment cleaning

Regular cleaning is crucial for the lifespan and performance of lighting fixtures. The accumulation of dust, dirt, smoke particles, atomized liquid residues, etc. can reduce the light output and heat dissipation capacity of the lamp.

The cleaning time of lighting fixtures varies greatly depending on the operating environment. Therefore, it is impossible to specify precise cleaning intervals for lighting fixtures. Environmental factors that may require frequent cleaning include:

- ◆ Use a fogger or spray.
- ◆ High airflow rate (e.g. near air conditioning vents)
- ◆ Dust in the air (such as from stage effects, building structures and decorations, or natural environments during outdoor activities, etc.)

If one or more of these factors exist, please check if cleaning is necessary within a few hours of the lamp starting to operate. Afterwards, regular inspections should be conducted. This process will enable you to assess the cleaning needs in specific situations.

When cleaning lighting fixtures, pay attention to the following points:

- ◆ Carry out in a clean, dry, and fiber rich area.

- ◆ Only gently wipe. It is recommended to use a soft, lint free cloth dipped in water or a mild cleaning solution. Under no circumstances should alcohol, solvents, or abrasives be used! Be extra careful when cleaning optical components: the surface of optical components is fragile and easily scratched.