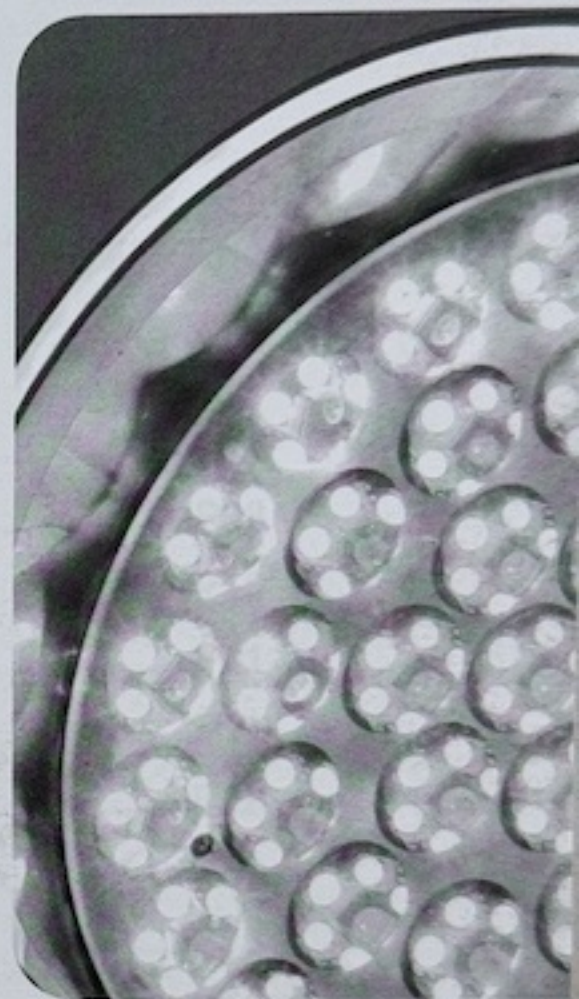
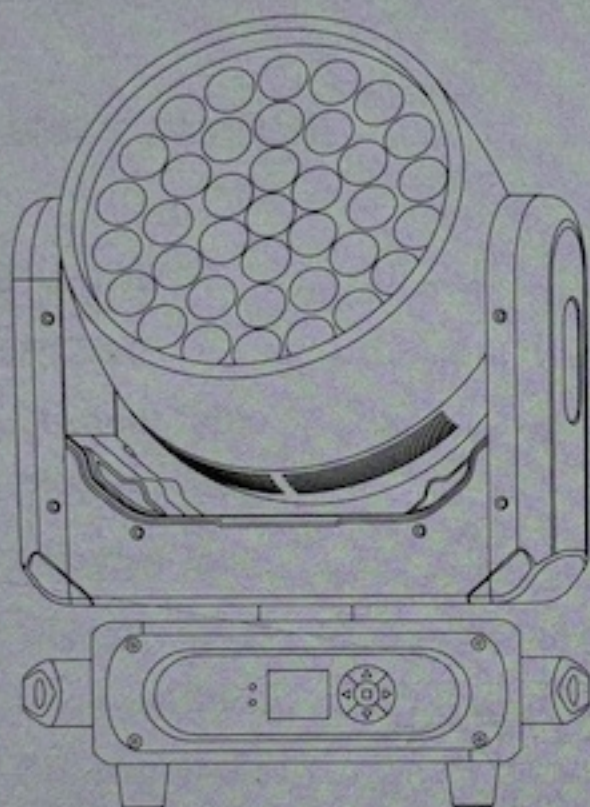




SINCE 2003

Big Dipper

You Deserve the Best Quality



User Manual

37x15W (RGBW 4-in-1) LEDs+LED Strip

Model:
LM3715R

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The following symbols are used to identify important safety information in the product and user manual:

						
Warning: Risk of serious injury or death.	Warning: Refer to the user manual before installation, energizing, or servicing.	Warning: Risk of fatal or severe electric shock.	Warning: Potential risk: fire.	Warning: Hot surface, do not touch.	Warning: Potential risk of eye injury, protective goggles must be worn.	Warning: Potential risk of hand injury, gloves must be worn.
						
Suitable only for installation on non-combustible surfaces.	Replace all broken protective covers.	Minimum distance to illuminated objects.	Maximum rated ambient temperature.	For indoor use only.	Do not point the lens at sunlight or strong light.	Do not manually adjust during operation.

Safety Guidance

WARNING! Please read the instruction carefully and keep it for future reference.

IMPORTANT SAFETY WARNINGS

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

In order to install, operate and maintain the lighting fixture safely and correctly we suggest that the installation and operation be carried out by qualified technicians and these instructions be carefully followed.

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

	CAUTION! High Voltage. Risk Of Severe Or Fatal Electric Shock.
	CAUTION! Always Disconnect Mains Supply Before Removing Any Fixture Covers.
	CAUTION! Never Look Directly Into The Light Source. Sensitive Persons May Suffer An Epileptic Shock.
	CAUTION! Never Touch The Device During Operation. Covers May Be Hot
	CAUTION! Indoor Use Only

This product is for indoor use only. Use only in a dry location. The minimum distance to objects/surface must be more than 5 meters. Hot lamp explosion hazard. DO NOT open the unit within 15 minutes after switching off. It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

Minimum ambient temperature TA: 0 °C. Maximum ambient temperature TA: 40 °C.

Do not operate this product at a lower or higher temperature.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes. Keep flammable materials away from the fixture while operating to avoid fire hazard.

Unit's surface temperature may reach up to 50 °C. DO NOT touch the housing bare-handed during its operation.

Avoid direct eye exposure to the light source while the product is on.

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 10 times the weight of the fixture when installing.

Maintenance and Cleaning

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation.

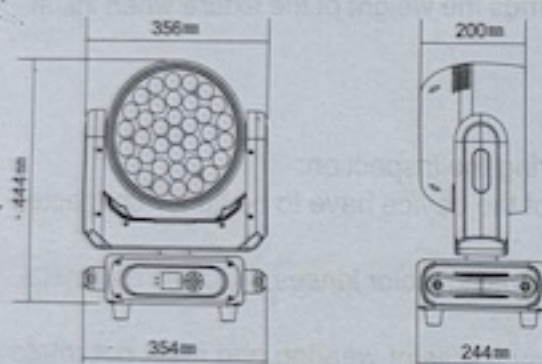
In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1. Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2. Clean the fan each week.
3. A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

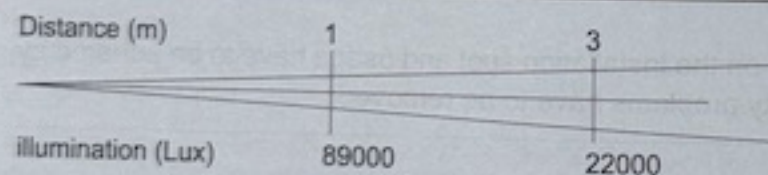
We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents. There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions". Should you need any spare parts, please order genuine parts from your local dealer.

Technical Specifications

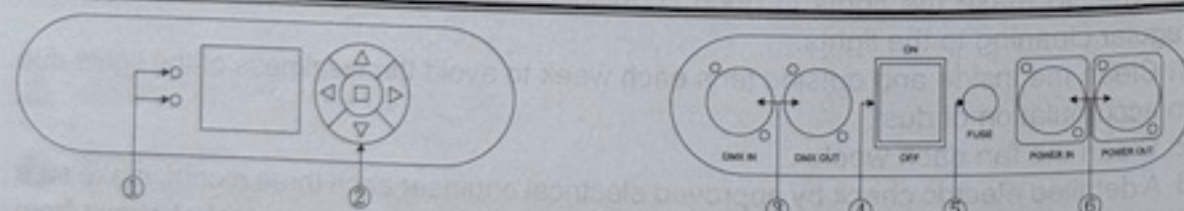
Voltage	AC100V-240V 50-60HZ
Rated Power	500W
LED Source	37x15W(RGBW 4-in-1)+222(RGB 3-in-1) LED+47(RGB 3-in-1) LED Strip
Zoom	15°-50°
Strobe	1-30Hz
Control Mode	DMX512 / Auto / Sound / Master-slave
DMX Channels	49AC/33CH/27CH/22CH/49BC/37AC/30CH/37BC/58CH/162C
Linear Dimmer	32bit 0-100%
Pan / Tilt	540° / 270°
Luminous flux	6500 Lm
Operating temperature	-30°C-50°C
N.W.	11Kg



illumination



Introduction of the control panel



- ① DMX: DMX signal light / ERR: Error indicator
- ② MENU: Enter to Main menu / ENTER: Confirm and save
UP: Parameter increment / DOWN: Parameter decrement
- ③ DMX IN / DMX OUT
- ④ POWER ON / OFF
- ⑤ FUSE
- ⑥ POWER IN / OUT

Menu Functions

After powering on and resetting the whole machine, press the menu button to enter the main menu (the main menu interface exits after 30 seconds of no operation), see the main menu menu (a total of 5 main menu options) for details; Select the main menu with the up or down button, click the confirmation button to modify the function parameters of each menu, and then press the confirmation button to save the current function parameters (with power loss memory after saving).

Main Menu	Sub- Menu	Menu function description
System settings	DMX address	Modify the DMX address code up or down (the address code can be selected in the range 001-512), and confirm that the key is saved, default 001.
	Encoder	Change the encoder on/off up/down, confirm the key to save, and turn on by default.
	X reversal	Modify X up/down to turn on/off, confirm key to save, and turn off by default.
	Y reversal	Modify Y upwards or downwards to turn on/off, confirm the key to save, and turn off by default.
	No signal	Modify the signal clear/hold up or down, confirm the key to save, and clear the default.
	Voice control sensitivity	Modify up or down (000-099), make sure the key is saved, default 009.
	Temperature-fan	Modify Auto/Quiet/standard up or down, OK key save, automatic by default.
	Dimming curve	Modify the linear/squared/inverse/S-curve up or down, and make sure to save the key and default squared rate.
	Dimming speed	Modify up or down fast/smooth, make sure key save, fast by default.
	Reset	Modify yes/no up or down, confirm key saves, default no.
Operation mode	Restore factory settings	Modify yes/no up or down, confirm key saves, default no.
	Advanced settings	
	Operation mode	Select the running mode up or down, DMX/Voice Control/ Auto, confirm the key to save, default DMX.
	Channel selection	Select channels 49AC, CH33, CH27, CH22, 49BC, AC37, CH30, BC37, CH58 up or down, confirm that the key is saved, default 49AC.
Manual control	X	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	X fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Y	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Y fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.

Manual control	XY speed	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Function	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Red	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Red fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Green	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Green fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Blue	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Blue fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	White	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	White fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Color temperature	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Mode	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Focusing	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Focus adjustment and fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Strobe	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Dimming	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Dimming fine-tuning	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Strobe B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Red B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Green B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Blue B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.
	Mode B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.

Manual control	Speed B	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Strobe C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Red C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Green C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Blue C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Mode C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
	Speed C	Modify up or down (adjustable range 000-255), confirm the key to save, default 000.	
Display settings	Language selection	Select Chinese/EN (English) up or down, confirm the key to save, default Chinese.	
	Inverted settings	Select Turn off/on the display setting up or down, confirm that the key is saved, and turn off by default.	
	Screensaver settings	Select Turn off/on backlight settings up or down, confirm the key to save, and turn on by default.	
	Software version	598FQ	
Information settings	Encryption settings	Select Turn off/on encryption settings up or down, confirm that the key is saved, and it is turned off by default.	
	Time	9999: 00	
	HALL	0000110	
Factory setting	Show Please enter your password! Modify it up or down to 138, and then press the confirm button to enter the factory settings.	X-axis calibration	Modify up or down (range 000-255), confirm key save, default 128.
		Y-axis calibration	Modify up or down (range 000-255), confirm key save, default 128.
		Focus calibration	Modify up or down (range 000-255), confirm key save, default 128.
		Red	Modify up or down (032-255), confirm that the key is saved, default 255.
		Green	Modify up or down (032-255), confirm that the key is saved, default 255.
		Blue	Modify up or down (032-255), confirm that the key is saved, default 255.
		White	Modify up or down (032-255), confirm that the key is saved, default 255.
		LED 0	Modify LEDA/LEDB up or down, make sure the key is saved, and the default LEDA is the default.
		LED 1	Modify LEDA/LEDB up or down, make sure the key is saved, and the default LEDA is the default.

LED2	Modify LEDA/LEDB up or down, make sure the key is saved, and the default LEDA is the default.
Power	Modify up or down (032-255), confirm that the key is saved, default 255.
Logo	Select 000/001 up or down, confirm the key to save, default 000.
Temperature	Modify up or down (range 040-070), confirm the key to save, default 060.
Time clearing	Modify yes/no up or down, make sure the key is saved, and no by default.

Master-slave control

There are 2 or more identical lamps connected with DMX three-core signal cables, all lamps are modified to 001~512 arbitrary address code, any one is set as the host, other lamps are slaves, and all slave displays do not flicker; When the main unit is used to adjust the gradient, pulse change, jump, voice control, and self-propelled effects, all slave synchronized gradients, pulse changes, jumps, voice-controlled, and auto-propelled effects.

Special attention:

1. A group of lamps can only set one host, if there are multiple hosts, all the lamps will flash randomly and not synchronized.
2. All luminaires must be active when the DMX512 console is turned off.

DMX512 Control

Address Code:

All the lamps are set with the address code, connect all the lamps to the DMX512 console in parallel with DMX three-core signal cables, the address code stops flashing, indicating that the DMX512 console signal has been sent to the lamp, and use the DMX512 console to control the relevant functions according to the channel instructions.

49AC Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	R1
8	000-255	R1 fine-tuning
9	000-255	G1
10	000-255	G1 fine-tuned
11	000-255	B1
12	000-255	B1 fine-tuning
13	000-255	W1
14	000-255	W1 fine-tuning
15	000-255	R2
16	000-255	R2 fine-tuning
17	000-255	G2
18	000-255	G2 fine-tuning
19	000-255	B2
20	000-255	B2 fine-tuning
21	000-255	W2
22	000-255	W2 trimming
23	000-255	R3
24	000-255	R3 fine-tuning
25	000-255	G3
26	000-255	G3 fine-tuning
27	000-255	B3
28	000-255	B3 fine-tuning
29	000-255	W3
30	000-255	W3 fine-tuning
31	000-255	CTO (Color Temperature Correction Range from 20000K to 2700K)
32	000-255	Mode_table①
33	000-255	Focusing
34	000-255	Focus fine-tuning
35	000-255	Shutter

36	000-255	Dimming
37	000-255	Dimming fine-tuning
38	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
39	000-255	Accelerated red
40	000-255	Complementary light green
41	000-255	Accelerated blue
42	000-255	Supplementary light mode
43	000-255	Assist light speed
44	0-9	Void
	10-255	Strip strobe (slow to fast)
45	000-255	The light band is red
46	000-255	The light strip is green
47	000-255	The light strip is blue
48	000-255	Light strip mode
49	000-255	Light strip speed

CH33 Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	R1
8	000-255	R1 fine-tuning
9	000-255	G1
10	000-255	G1 fine-tuning
11	000-255	B1
12	000-255	B1 fine-tuning
13	000-255	W1
14	000-255	W1 fine-tuning
15	000-255	CTO (color temperature correction range from 20000K to 2700K).
16	000-255	Mode table①
17	000-255	Focusing
18	000-255	Focus fine-tuning
19	000-255	Shutter
20	000-255	Dimming
21	000-255	Dimming fine-tuning
22	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
23	000-255	Accelerated red
24	000-255	Complementary light green
25	000-255	Accelerated blue
26	000-255	Supplementary light mode
27	000-255	Assist light speed
28	0-9	Void
	10-255	Strip strobe (slow to fast)
29	000-255	The light band is red
30	000-255	The light strip is green
31	000-255	The light strip is blue
32	000-255	Light strip mode
33	000-255	Light strip speed

CH27 Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	R1
8	000-255	G1
9	000-255	B1
10	000-255	W1
11	000-255	CTO (Color Temperature Correction Range from 20000K to 2700K)
12	000-255	Mode_table①
13	000-255	Focusing
14	000-255	Shutter
15	000-255	Dimming
16	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
17	000-255	Accelerated red
18	000-255	Complementary light green
19	000-255	Accelerated blue
20	000-255	Supplementary light mode
21	000-255	Assist light speed
22	0-9	Void
	10-255	Strip strobe (slow to fast)
23	000-255	The light band is red
24	000-255	The light strip is green
25	000-255	The light strip is blue
26	000-255	Light strip mode
27	000-255	Light strip speed

CH22 Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	Mode_table①
8	000-255	Focusing
9	000-255	Shutter
10	000-255	Dimming

11	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
12	000-255	Accelerated red
13	000-255	Complementary light green
14	000-255	Accelerated blue
15	000-255	Supplementary light mode
16	000-255	Assist light speed
17	0-9	Void
	10-255	Strip strobe (slow to fast)
18	000-255	The light band is red
19	000-255	The light strip is green
20	000-255	The light strip is blue
21	000-255	Light strip mode
22	000-255	Light strip speed

49BC Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	Focusing
8	000-255	Focus fine-tuning
9	000-255	Shutter
10	000-255	Dimming
11	000-255	Dimming fine-tuning
12	000-255	CTO (Color Temperature Correction Range from 20000K to 2700K)
13	000-255	Mode_table①
14	000-255	R1
15	000-255	R1 fine-tuning
16	000-255	G1
17	000-255	G1 fine-tuned
18	000-255	B1
19	000-255	B1 fine-tuning
20	000-255	W1
21	000-255	W1 fine-tuning
22	000-255	R2
23	000-255	R2 fine-tuning
24	000-255	G2
25	000-255	G2 fine-tuning

26	000-255	B2
27	000-255	B2 fine-tuning
28	000-255	W2
29	000-255	W2 trimming
30	000-255	R3
31	000-255	R3 fine-tuning
32	000-255	G3
33	000-255	G3 fine-tuning
34	000-255	B3
35	000-255	B3 fine-tuning
36	000-255	W3
37	000-255	W3 fine-tuning
38	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
39	000-255	Accelerated red
40	000-255	Complementary light green
41	000-255	Accelerated blue
42	000-255	Supplementary light mode
43	000-255	Assist light speed
44	0-9	Void
	10-255	Strip strobe (slow to fast)
45	000-255	The light band is red
46	000-255	The light strip is green
47	000-255	The light strip is blue
48	000-255	Light strip mode
49	000-255	Light strip speed

AC37 Channel Table (RGB can be lit when the strobe is full, there will be no flicker)

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	R1
8	000-255	G1
9	000-255	B1
10	000-255	W1
11	000-255	R2
12	000-255	G2
13	000-255	B2
14	000-255	W2
15	000-255	R3
16	000-255	G3
17	000-255	B3
18	000-255	W3
19	000-255	CTO (color temperature correction range from 20000K to 2700K).
20	000-255	Mode_table①
21	000-255	Focusing
22	000-255	Focus fine-tuning
23	000-255	Shutter
24	000-255	Dimming
25	000-255	Dimming fine-tuning
26	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
27	000-255	Accelerated red
28	000-255	Complementary light green
29	000-255	Accelerated blue
30	000-255	Supplementary light mode
31	000-255	Assist light speed
32	0-9	Void
	10-255	Strip strobe (slow to fast)
33	000-255	The light band is red
34	000-255	The light strip is green
35	000-255	The light strip is blue
36	000-255	Light strip mode
37	000-255	Light strip speed

CH30 Channel Table

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Focusing
7	000-255	Dimming
8	0-9	Void
	10-255	Strobe (slow to fast)
9	000-255	R1
10	000-255	G1
11	000-255	B1
12	000-255	W1
13	000-255	Color_Temperature
14	000-255	Mode_table②
15	000-255	Velocity
16	000-255	Background color
17	000-255	Background color total dimming
18	000-255	Reset (200-209 is the reset value)
19	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
20	000-255	Fu Guang R
21	000-255	Supplementary light G
22	000-255	Auxiliary light B
23	000-255	Supplementary light mode
24	000-255	Assist light speed
25	0-9	Void
	10-255	Strip strobe (slow to fast)
26	000-255	The light band is red
27	000-255	The light strip is green
28	000-255	The light strip is blue
29	000-255	Light strip mode
30	000-255	Light strip speed

BC37 Channel Table

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Focusing
7	000-255	Dimming
8	0-9	Void
	10-255	Strobe (slow to fast)
9	000-255	Red 1 (single push does not light up, used with LED)
10	000-255	Green 1 (single push does not light up, used with LED)
11	000-255	Blue 1 (single push does not light up, used with LED)
12	000-255	White 1 (single push does not light up, used with LED)
13	000-255	Color_Temperature
14	000-255	Mode_table②
15	000-255	Velocity
16	000-255	Background color
17	000-255	Background color total dimming
18	000-255	Reset (200-209 is the reset value)
19	000-255	LED1
20	000-255	LED2
21	000-255	LED3
22	000-255	LED4
23	000-255	LED5
24	000-255	LED6
25	000-255	LED7
26	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
27	000-255	Fu Guang R
28	000-255	Supplementary light G
29	000-255	Auxiliary light B
30	000-255	Supplementary light mode
31	000-255	Assist light speed
32	0-9	Void
	10-255	Strip strobe (slow to fast)
33	000-255	The light band is red
34	000-255	The light strip is green
35	000-255	The light strip is blue
36	000-255	Light strip mode
37	000-255	Light strip speed

CH58 Channel Table

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Focusing
7	000-255	Dimming
8	0-9	Void
	10-255	Strobe (slow to fast)
9	000-255	Red 1 (single push does not light up, used with LED)
10	000-255	Green 1 (single push does not light up, used with LED)
11	000-255	Blue 1 (single push does not light up, used with LED)
12	000-255	White 1 (single push does not light up, used with LED)
13	000-255	Color_Temperature
14	000-255	Mode_table②
15	000-255	Velocity
16	000-255	Background color
17	000-255	Background color total dimming
18	000-255	Reset (200-209 is the reset value)
19	000-255	LED1 red
20	000-255	LED1 green
21	000-255	LED1 blue
22	000-255	LED1 white
...	...	...
43	000-255	LED7 red
44	000-255	LED7 green
45	000-255	LED7 blue
46	000-255	LED7 white
47	0-9	Void
	10-255	Auxiliary light strobe (slow to fast)
48	000-255	Fu Guang R
49	000-255	Supplementary light G
50	000-255	Auxiliary light B
51	000-255	Supplementary light mode
52	000-255	Assist light speed
53	0-9	Void
	10-255	Strip strobe (slow to fast)
54	000-255	The light band is red
55	000-255	The light strip is green
56	000-255	The light strip is blue
57	000-255	Light strip mode
58	000-255	Light strip speed

C162 Channel Table

NO.	Value	Function
1	000-255	X-axis
2	000-255	X-axis fine-tuning
3	000-255	Y-axis
4	000-255	Y-axis fine-tuning
5	000-255	XY speed
6	000-255	Reset (200-209 is the reset value)
7	000-255	R1
8	000-255	R1 fine-tuning
9	000-255	G1
10	000-255	G1 fine-tuned
11	000-255	B1
12	000-255	B1 fine-tuning
13	000-255	W1
14	000-255	W1 fine-tuning
15	000-255	R2
16	000-255	R2 fine-tuning
17	000-255	G2
18	000-255	G2 fine-tuning
19	000-255	B2
20	000-255	B2 fine-tuning
21	000-255	W2
22	000-255	W2 fine-tuning
23	000-255	R3
24	000-255	R3 fine-tuning
25	000-255	G3
26	000-255	G3 fine-tuning
27	000-255	B3
28	000-255	B3 fine-tuning
29	000-255	W3
30	000-255	W3 fine-tuning
31	000-255	CTO (color temperature correction range from 20000K to 2700K)
32	000-255	mode_table①
33	000-255	Focusing
34	000-255	Focus fine-tuning
35	000-255	Strobe
36	000-255	Dimming
37	000-255	Light strobe
38	000-255	Auxiliary light dimming
39	10-255	Auxiliary light strobe (slow to fast)
40	0-255	Auxiliary light R1
41	0-255	Auxiliary light G1
42	0-255	Auxiliary light B1

43	0-255	Auxiliary light R2
44	0-255	Auxiliary light G2
45	0-255	Auxiliary light B2
...	...	...
149	0-255	Auxiliary light G37
150	0-255	Auxiliary light B37
151	000-255	Auxiliary light red
152	000-255	Auxiliary light green
153	000-255	Auxiliary light blue
154	000-255	Auxiliary light mode
155	000-255	Auxiliary light speed
156	000-255	Strip dimming
157	10-255	Strip strobe (slow to fast)
158	000-255	Strip red
159	000-255	Strip green
160	000-255	Strip blue
161	000-255	Strip mode
162	000-255	Strip speed

Color Temperature

NO.	Value	Function
1	0-9	Void
2	10-13	Color temperature 1
3	14-17	Color temperature 2
...	...	...
61	246-249	Color temperature 60
62	250-253	Color temperature 61
63	254-255	Color temperature 62

Mode table ①

NO.	Value	Function
1	0	Void
2	1-2	Mode 1
3	3	Mode 2
4	4-5	Mode 3
5	6	Mode 4
6	7-9	Mode 5
7	10-12	Mode 6
8	13-15	Mode 7
9	16	Mode 8
10	17-55	Mode 9
11	56	Mode 10
12	57-95	Mode 11
13	96	Mode 12
14	97-134	Mode 13
15	135	Mode 14
16	136-174	Mode 15
17	175	Pattern 16
18	176-214	Mode 17
19	215	Mode 18
20	216-246	Mode 19
21	247	Mode 20
22	248	Mode 21
23	249	Mode 22
24	250	Mode 23
25	251	Mode 24
26	252	Mode 25
27	253	Mode 26
28	254	Mode 27
29	255	Mode 28

Shutter

NO.	Value	Function
1	0-31	Strobe off
2	32-63	Strobe 1
3	64-95	Strobe 2
4	96-111	Strobe 3
5	112-127	Strobe 4
6	128-143	Strobe 5
7	144-159	Strobe 6
8	160-175	Strobe 7
9	176-191	Strobe 8
10	192-223	Strobe 9
11	224-255	Strobe on

Mode table ②

NO.	Value	Function
1	0-3	Void
2	4-10	Mode 1
3	11-17	Mode 2
...	...	...
35	235-241	Mode 34
36	242-248	Mode 35
37	249-255	Mode 36

Background color

NO.	Value	Function
1	0-7	Color 0 (4 values for one color, same below)
2	8-11	Color 1
...	...	...
62	248-251	Color 61
63	252-255	Color 62

Common faults

For some common faults, corresponding solutions are proposed. Any unresolved issues should be handled by professionals. Before maintaining the lamp, disconnect the power supply.

1. The lamp beads don't turn on

- Check whether the voltage matching the lamp is installed;
- Check whether the power supply connection or control switch of the lamp is in poor contact;
- Check whether the power supply is insufficient;
- Check if the DMX512 controller has sent instructions.

2. The lamp does not accept the control of the console after normal reset

- Check whether the numeric start address value and function options of the luminaire are correct;
- Check whether the connection of the communication control line is correct, the communication line is too long or has been interrupted;
- Check whether the control equipment is failing, and check whether the signal amplifier connected in series is failing;
- Check whether the communication line is too long or if other devices interfere with each other;
- Optimize the wiring, shorten the length of the control signal line, and separate the high-voltage and low-voltage lines.
- Add a signal amplifier;
- The signal line adopts high-quality shielded twisted pair wire;
- Connect the signal termination resistor (120 ohms) at the end of the luminaire.

3. The light fixture cannot be started

- Check whether the power supply parameters are consistent with the lamps;
- Check that the lamps are in poor contact or fall off due to extrusion deformation, internal parts vibration, moisture, etc. during long-distance transportation.
- Check whether the wires and connectors inside the lamp are falling off or loose.
- Check the electronic components of the lamp (such as electronic transformers, PCB boards, motor control boards, etc.) for looseness, short circuits, and burnouts.