

6pcs 60W Swinging LED Beam Moving Head Light



USER MANUAL



KEEP THIS MANUAL FOR FUTURE NEEDS

1. Precautions and installation Precautions and installation

Thank you for choosing our products! 8, This product is in good condition and the package is complete when it leaves the factory. For your safe and effective use of this product, before you use this product, please read this manual carefully and completely. This manual contains important information for installation and use. Please install and operate according to the requirements of the manual. At the same time, please keep this manual properly for use at any time.

This manual is subject to technical changes without prior notice.

1.1. Maintenance

- This light fixture is for professional use only.
- If the external flexible cable or wire of this light fixture is damaged, it should be replaced with a dedicated wire or wire provided by the manufacturer or its service agent.
- The light source contained in this luminaire can only be replaced by the manufacturer or its service agent or similarly qualified person.
- Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has proper electrical ground to avoid the risk of electrical contact or fire.
- In order to avoid unnecessary wear and extend its service life, the power should be completely cut off by a circuit breaker or unplug when not in use.
- The case may heat up while the product is in operation. This product should be installed in a well-ventilated location.
- The internal electronics of the product when transferring the product from an extreme temperature environment (for example, from a cold truck to a warm, humid auditorium)

The piece may develop dew. To avoid failure, please allow the product to fully adapt to the surrounding environment before switching on the power supply.

- Flash lights have been known to trigger seizures. Users must comply with local notification laws regarding flash use.

1.2. Product Considerations

- Disconnect the power supply before cleaning the product or replacing the fuse.
- Replace and secure the guards on all power, data, USB, or other ports to IP protection levels when not in use.
- Use safety cords when mounting this product above your head.
- Connect this product to a grounded and protected circuit.
- While the product is on, look at the light source.
- Do not place any flammable materials within 20 cm of this product while operating or turning on the power source.
- Do not operate this product if the case, lens, or cable is damaged.
- Only use handles or lifting/mounting brackets to handle this product.
- To avoid unnecessary wear and tear and extend its service life, the power should be completely cut off by a circuit breaker or unplugging when not in use.
- In case of serious operating problems, the use should be stopped immediately

1.3. Product introduction

- Voltage: AC100~240V, 50/60HZ
- Power: 400W
- Light Source: 6pcs 60W RGBW 4in1 LEDs
- Lifespan: 50,000hours
- Color: RGBW color mixing, CMY color mixing mode, amazing color macro effects
- Each LED Pixel control, with 32 kinds of LED macro effects
- Color Temperature: 2700k-19000K adjustable
- Control Mode: DMX512, Auto, Master-slave, with RDM function.
- DMX Channel: 23CH, 38CH, 62CH, 92CH, 94CH
- Movement: Pan endless rotation, Each head tilt 0-180degree move, rich tilt swinging dynamic effects, like waves
- Dimming: 32bit 0~100% linear dimming
- Strobe: 1-30Hz
- Beam Angle: 4.3°-11°
- Spot Angle: 9°-18°
- Display: LCD display + 4 buttons
- IP Rate: IP20
- Dimensions: 545*226* 351mm
- Weight: 15.5KG

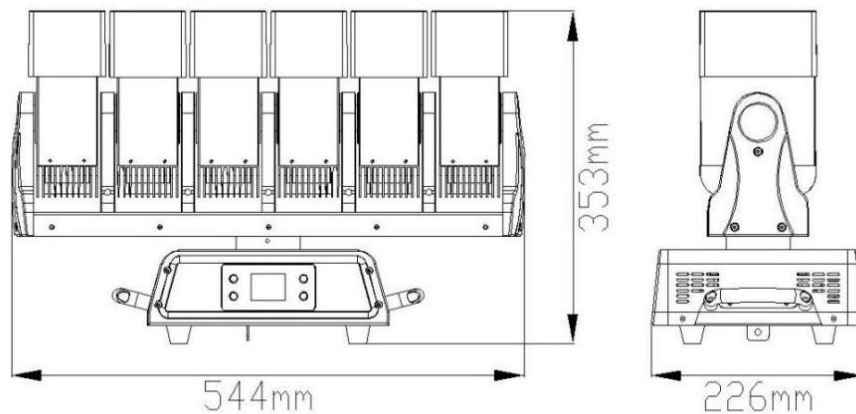


Figure 1 Schematic diagram of the dimensions of the luminaire

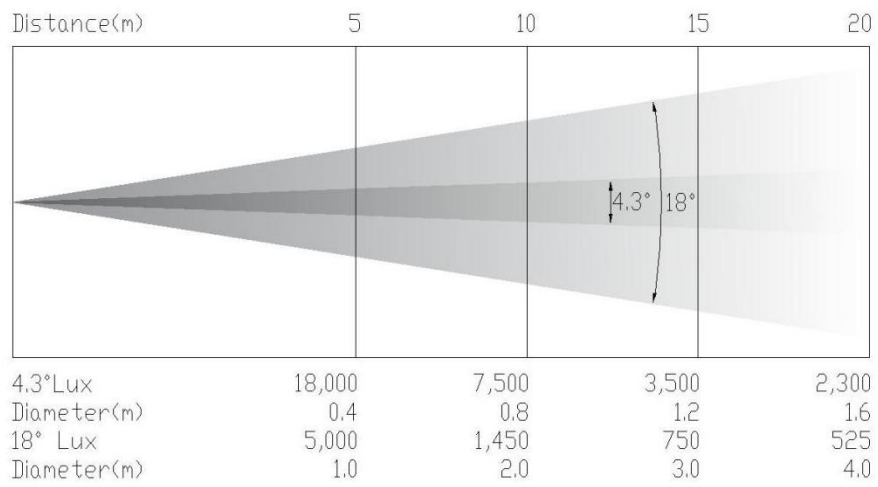


Figure 2 Product illumination diagram

2. Control panel

2.1. Settings

Options	Instructions		
DMX Settings	DMX Address	1-490	
	Channel Mode	23CH	23 Channel mode
		38CH	38-channel mode
		62CH	62 Channel mode
		92CH	92 Channel mode
		94CH	94 Channel Mode
	No DMX Status	Standby	DMX signal clear
		Hold	DMX signal hold
	DMX Monitor	Channel1	Detect console data
		Channel2	
		...	
		...	
Fixture settings	Tilt Reverse	NO	Set the Tilt to reverse
		YES	
	Tilt Angle	200	Set the Tilt running Angle
		90	
		150	
	Tilt Correct	ON	When opened, Tilt does not detect Hall at zero position will automatically reset (ICBC calibration within ± 20)
		OFF	
	Pan Correct	ON	Automatic correction of out of step due to lost horizontal position
		OFF	
	C Mixing Mode	RGB	Red green Blue mode
		CMY	CMY mode
	Dimmer Curve	Square	Square
		Linear	Linear
		S Curve	Sine
		Inv SQ	Inverse square
	Dimmer Speed	Smooth	Smooth
		Fast	Fast
	LED Frequency	16KHz	Fixed 16KHz
	Invert Pixel Order	NO	Vertical and LED sequence reverse
		YES	Vertical and LED order forward
	Reset	Standby	Non-functional
		All Reset	All motor reset
		Zoom Reset	Zoom motor reset
		Tilt Reset	Tilt motor reset

	White Balance	Red	Correct white light color temperature
		Green	
		Blue	
		White	
	Factory Reset	factory data reset	
Display Settings	Display Invert	Yes/No	Set screen reverse
	Backlight intensity	1-10	Adjust the screen brightness from dark to light
	Temperature Unit	°C	Degrees Celsius
		°F	Degrees Fahrenheit
	Language	Chinese/English	
Fixture Test	Auto Mode	OFF	
		ON	Turn on automatic testing
	Manual Mode	Pan	
		Pan Rotation	
...			
Fixture Information	Version	Display the software version number	
	Temperature	LED1	Individual LED temperature detection
		...	
	Hall State	Pan Hall	0 when magnetic is detected, 1 otherwise
		Pan Encoder	
		Tilt Hall 1	
		Focus Hall 1	
		...	
	Error Log		View error log
	Fixture Time		Equipment usage time
	LED Hours		LED usage time
Authority Hours		9999 unlimited; Other values have time limits	
Factory Password (UP DOWN UP DOWN)	Reset calibration	Pan	The reset position of the motor such as Pan and Tilt can be adjusted to make up for the error on the hardware installation. The adjustment range is -128~+127, and +0 indicates no adjustment.
		Tilt 1	
		Focus 1	
		Tilt 2	
		...	
	Pixel Calibration	Clear	Press OK to clear the color calibration
		Red 1	0-255 Adjust the single color deviation from dark to light, and the adjustment range is recommended to be controlled between 220-255
		Red 2	
			

3. Channel table

3.1. Channel Table (23CH) :

CH	Function	DMX Values	Description
1	Pan	000-255	0 - 100%
2	Pan Fine	000-255	0 - 100%
3	Pan Endless Rotate	001-126 127-129 130-255	Forward turn, fast to slow Stop Reverse, from slow to fast
4	Tilt 1-6	000-255	0 - 100%
5	Tilt Fine 1-6	000-255	0 - 100%
6	Tilt Speed	000-255	0 - 100%
7	Tilt Macro Function	000-004 005-255	no View (Tilt Macro Chart)
8	CTC	000 001-255	no From 19000K to 2700K
9	Color Macro	000 001-255	no View (Color Macro Chart)
10	Pattern	000 001-255	no View (Pattern Chart)
11	LED Effects	000-015 016-255	no View (LED Macro Chart)
12	LED Effect Speed	000-127 128 129-255	Speed from fast to slow Stop Speed from slow to fast
13	LED Effect Delay	000-255	From fast to slow
14	Background Color	000 001-255	no View (Background Color Chart)
15	Background Color Dimmer	000-255	0 - 100%
16	Dimmer	000-255	0 - 100%
17	Strobe	000-019 020-024	Off View (Strobe Chart)
18	Zoom 1-6	000-255	0 - 100%
19	Control	000-009 010-255	no View (Control Chart)
20	Red/Cyan	000-255	0 - 100% dimmer from dark to brighter
21	Green/Magenta	000-255	0 - 100% dimmer from dark to brighter
22	Blue/Yellow	000-255	0 - 100% dimmer from dark to brighter
23	White	000-255	0 - 100% dimmer from dark to brighter

3.2. Channel table (38CH) :

CH	Function	DMX Values	Description
1	Pan	000-255	0 - 100%
2	Pan Fine	000-255	0 - 100%
3	Pan Endless Rotate	001-126 127-129 130-255	Forward turn, fast to slow Stop Reverse, from slow to fast
4	Tilt 1	000-255	0 - 100%
5	Tilt Fine 1	000-255	0 - 100%
6	Tilt 2	000-255	0 - 100%
7	Tilt Fine 2	000-255	0 - 100%
8	Tilt 3	000-255	0 - 100%
9	Tilt Fine 3	000-255	0 - 100%
10	Tilt 4	000-255	0 - 100%
11	Tilt Fine 4	000-255	0 - 100%
12	Tilt 5	000-255	0 - 100%
13	Tilt Fine 5	000-255	0 - 100%
14	Tilt 6	000-255	0 - 100%
15	Tilt Fine 6	000-255	0 - 100%
16	Tilt Speed	000-255	0 - 100%
17	Tilt Macro Function	000-004 005-255	no View (Tilt Macro Chart)
18	CTC	000 001-255	no From 19000K to 2700K
19	Color Macro	000 001-255	no View (Color Macro Chart)
20	Pattern	000 001-255	no View (Pattern Chart)
21	LED Effects	000-015 016-255	no View (LED Macro Chart)
22	LED Effect Speed	000-127 128 129-255	Speed from fast to slow Stop Speed from slow to fast
23	LED Effect Delay	000-255	From fast to slow
24	Background Color	000 001-255	no View (Background Color Chart)
25	Background Color Dimmer	000-255	0 - 100%
26	Dimmer	000-255	0 - 100%
27	Strobe	000-019 020-024	Off View (Strobe Chart)
28	Zoom 1	000-255	0 - 100%
29	Zoom 2	000-255	0 - 100%
30	Zoom 3	000-255	0 - 100%

31	Zoom 4	000-255	0 - 100%
32	Zoom 5	000-255	0 - 100%
33	Zoom 6	000-255	0 - 100%
34	Control	000-009 010-255	no View (Control Chart)
35	Red/Cyan	000-255	0 - 100% dimmer from dark to brighter
36	Green/Magenta	000-255	0 - 100% dimmer from dark to brighter
37	Blue/Yellow	000-255	0 - 100% dimmer from dark to brighter
38	White	000-255	0 - 100% dimmer from dark to brighter

3.3. Channel table (62CH) :

CH	Function	DMX Values	Description
1	Pan	000-255	0 - 100%
2	Pan Fine	000-255	0 - 100%
3	Pan Endless Rotate	001-126 127-129 130-255	Forward turn, fast to slow Stop Reverse, from slow to fast
4	Tilt 1	000-255	0 - 100%
5	Tilt Fine 1	000-255	0 - 100%
6	Tilt 2	000-255	0 - 100%
7	Tilt Fine 2	000-255	0 - 100%
8	Tilt 3	000-255	0 - 100%
9	Tilt Fine 3	000-255	0 - 100%
10	Tilt 4	000-255	0 - 100%
11	Tilt Fine 4	000-255	0 - 100%
12	Tilt 5	000-255	0 - 100%
13	Tilt Fine 5	000-255	0 - 100%
14	Tilt 6	000-255	0 - 100%
15	Tilt Fine 6	000-255	0 - 100%
16	Tilt Speed	000-255	0 - 100%
17	Tilt Macro Function	000-004 005-255	no View (Tilt Macro Chart)
18	CTC	000 001-255	no From 19000K to 2700K
19	Color Macro	000 001-255	no View (Color Macro Chart)
20	Pattern	000 001-255	no View (Pattern Chart)
21	LED Effects	000-015 016-255	no View (LED Macro Chart)
22	LED Effect Speed	000-127 128 129-255	Speed from fast to slow Stop Speed from slow to fast
23	LED Effect Delay	000-255	From fast to slow

24	Background Color	000 001-255	no View (Background Color Chart)
25	Background Color Dimmer	000-255	0 - 100%
26	Dimmer	000-255	0 - 100%
27	Strobe	000-019 020-024	Off View (Strobe Chart)
28	Zoom 1	000-255	0 - 100%
29	Zoom 2	000-255	0 - 100%
30	Zoom 3	000-255	0 - 100%
31	Zoom 4	000-255	0 - 100%
32	Zoom 5	000-255	0 - 100%
33	Zoom 6	000-255	0 - 100%
34	Control	000-009 010-255	no View (Control Chart)
35	Red/Cyan	000-255	0 - 100% dimmer from dark to brighter
36	Green/Magenta	000-255	0 - 100% dimmer from dark to brighter
37	Blue/Yellow	000-255	0 - 100% dimmer from dark to brighter
38	White	000-255	0 - 100% dimmer from dark to brighter
39	Red 1/Cyan 1	000-255	0 - 100% dimmer from dark to brighter
40	Green 1/Magenta 1	000-255	0 - 100% dimmer from dark to brighter
41	Blue 1/Yellow 1	000-255	0 - 100% dimmer from dark to brighter
42	White 1	000-255	0 - 100% dimmer from dark to brighter
43	Red 2/Cyan 2	000-255	0 - 100% dimmer from dark to brighter
44	Green 2/Magenta 2	000-255	0 - 100% dimmer from dark to brighter
45	Blue 2/Yellow 2	000-255	0 - 100% dimmer from dark to brighter
46	White 2	000-255	0 - 100% dimmer from dark to brighter
47	Red 3/Cyan 3	000-255	0 - 100% dimmer from dark to brighter
48	Green 3/Magenta 3	000-255	0 - 100% dimmer from dark to brighter
49	Blue 3/Yellow 3	000-255	0 - 100% dimmer from dark to brighter
50	White 3	000-255	0 - 100% dimmer from dark to brighter
51	Red 4/Cyan 4	000-255	0 - 100% dimmer from dark to brighter
52	Green 4/Magenta 4	000-255	0 - 100% dimmer from dark to brighter
53	Blue 4/Yellow 4	000-255	0 - 100% dimmer from dark to brighter
54	White 4	000-255	0 - 100% dimmer from dark to brighter
55	Red 5/Cyan 5	000-255	0 - 100% dimmer from dark to brighter
56	Green 5/Magenta 5	000-255	0 - 100% dimmer from dark to brighter
57	Blue 5/Yellow 5	000-255	0 - 100% dimmer from dark to brighter
58	White 5	000-255	0 - 100% dimmer from dark to brighter
59	Red 6/Cyan 6	000-255	0 - 100% dimmer from dark to brighter
60	Green 6/Magenta 6	000-255	0 - 100% dimmer from dark to brighter
61	Blue 6/Yellow 6	000-255	0 - 100% dimmer from dark to brighter
62	White 6	000-255	0 - 100% dimmer from dark to brighter

3.4. Channel table (92CH) :

CH	Function	DMX Values	Description
1	Pan	000-255	0 - 100%
2	Pan Fine	000-255	0 - 100%
3	Pan Endless Rotate	001-126 127-129 130-255	Forward turn, fast to slow Stop Reverse, from slow to fast
4	Tilt 1	000-255	0 - 100%
5	Tilt Fine 1	000-255	0 - 100%
6	Tilt 2	000-255	0 - 100%
7	Tilt Fine 2	000-255	0 - 100%
8	Tilt 3	000-255	0 - 100%
9	Tilt Fine 3	000-255	0 - 100%
10	Tilt 4	000-255	0 - 100%
11	Tilt Fine 4	000-255	0 - 100%
12	Tilt 5	000-255	0 - 100%
13	Tilt Fine 5	000-255	0 - 100%
14	Tilt 6	000-255	0 - 100%
15	Tilt Fine 6	000-255	0 - 100%
16	Tilt Speed	000-255	0 - 100%
17	Tilt Macro Function	000-004 005-255	no View (Tilt Macro Chart)
18	CTC	000 001-255	no From 19000K to 2700K
19	Color Macro	000 001-255	no View (Color Macro Chart)
20	Pattern	000 001-255	no View (Pattern Chart)
21	LED Effects	000-015 016-255	no View (LED Macro Chart)
22	LED Effect Speed	000-127 128 129-255	Speed from fast to slow Stop Speed from slow to fast
23	LED Effect Delay	000-255	From fast to slow
24	Background Color	000 001-255	no View (Background Color Chart)
25	Background Color Dimmer	000-255	0 - 100%
26	Background Color Dimmer Fine	000-255	0 - 100%
27	Dimmer	000-255	0 - 100%
28	Dimmer Fine	000-255	0 - 100%
29	Strobe	000-019 020-024	Off View (Strobe Chart)

30	Zoom 1	000-255	0 - 100%
31	Zoom 2	000-255	0 - 100%
32	Zoom 3	000-255	0 - 100%
33	Zoom 4	000-255	0 - 100%
34	Zoom 5	000-255	0 - 100%
35	Zoom 6	000-255	0 - 100%
36	Control	000-009 010-255	no View (Control Chart)
37	Red/Cyan	000-255	0 - 100% dimmer from dark to brighter
38	Red/Cyan Fine	000-255	0 - 100%
39	Green/Magenta	000-255	0 - 100% dimmer from dark to brighter
40	Green/Magenta Fine	000-255	0 - 100%
41	Blue/Yellow	000-255	0 - 100% dimmer from dark to brighter
42	Blue/Yellow Fine	000-255	0 - 100%
43	White	000-255	0 - 100% dimmer from dark to brighter
44	White Fine	000-255	0 - 100%
45	Red 1/Cyan 1	000-255	0 - 100% dimmer from dark to brighter
46	Red 1/Cyan 1 Fine	000-255	0 - 100%
47	Green 1/Magenta 1	000-255	0 - 100% dimmer from dark to brighter
48	Green 1/Magenta 1 Fine	000-255	0 - 100%
49	Blue 1/Yellow 1	000-255	0 - 100% dimmer from dark to brighter
50	Blue 1/Yellow 1 Fine	000-255	0 - 100%
51	White 1	000-255	0 - 100% dimmer from dark to brighter
52	White 1 Fine	000-255	0 - 100%
53	Red 2/Cyan 2	000-255	0 - 100% dimmer from dark to brighter
54	Red 2/Cyan 2 Fine	000-255	0 - 100%
55	Green 2/Magenta 2	000-255	0 - 100% dimmer from dark to brighter
56	Green 2/Magenta 2 Fine	000-255	0 - 100%
57	Blue 2/Yellow 2	000-255	0 - 100% dimmer from dark to brighter
58	Blue 2/Yellow 2 Fine	000-255	0 - 100%
59	White 2	000-255	0 - 100% dimmer from dark to brighter
60	White 2 Fine	000-255	0 - 100%
61	Red 3/Cyan 3	000-255	0 - 100% dimmer from dark to brighter
62	Red 3/Cyan 3 Fine	000-255	0 - 100%
63	Green 3/Magenta 3	000-255	0 - 100% dimmer from dark to brighter
64	Green 3/Magenta 3 Fine	000-255	0 - 100%
65	Blue 3/Yellow 3	000-255	0 - 100% dimmer from dark to brighter
66	Blue 3/Yellow 3 Fine	000-255	0 - 100%
67	White 3	000-255	0 - 100% dimmer from dark to brighter
68	White 3 Fine	000-255	0 - 100%
69	Red 4/Cyan 4	000-255	0 - 100% dimmer from dark to brighter
70	Red 4/Cyan 4 Fine	000-255	0 - 100%
71	Green 4/Magenta 4	000-255	0 - 100% dimmer from dark to brighter
72	Green 4/Magenta 4 Fine	000-255	0 - 100%
73	Blue 4/Yellow 4	000-255	0 - 100% dimmer from dark to brighter
74	Blue 4/Yellow 4 Fine	000-255	0 - 100%
75	White 4	000-255	0 - 100% dimmer from dark to brighter
76	White 4 Fine	000-255	0 - 100%

77	Red 5/Cyan 5	000-255	0 - 100% dimmer from dark to brighter
78	Red 5/Cyan 5 Fine	000-255	0 - 100%
79	Green 5/Magenta 5	000-255	0 - 100% dimmer from dark to brighter
80	Green 5/Magenta 5 Fine	000-255	0 - 100%
81	Blue 5/Yellow 5	000-255	0 - 100% dimmer from dark to brighter
82	Blue 5/Yellow 5 Fine	000-255	0 - 100%
83	White 5	000-255	0 - 100% dimmer from dark to brighter
84	White 5 Fine	000-255	0 - 100%
85	Red 6/Cyan 6	000-255	0 - 100% dimmer from dark to brighter
86	Red 6/Cyan 6 Fine	000-255	0 - 100%
87	Green 6/Magenta 6	000-255	0 - 100% dimmer from dark to brighter
88	Green 6/Magenta 6 Fine	000-255	0 - 100%
89	Blue 6/Yellow 6	000-255	0 - 100% dimmer from dark to brighter
90	Blue 6/Yellow 6 Fine	000-255	0 - 100%
91	White 6	000-255	0 - 100% dimmer from dark to brighter
92	White6 Fine	000-255	0 - 100%

3.5. Channel table (94CH) :

CH	Function	DMX Values	Description
1	Pan	000-255	0 - 100%
2	Pan Fine	000-255	0 - 100%
3	Pan Endless Rotate	001-126 127-129 130-255	Forward turn, fast to slow Stop Reverse, from slow to fast
4	Control	000-009 010-255	no View (Control Chart)
5	Tilt Speed	000-255	0 - 100%
6	Tilt Macro Function	000-004 005-255	no View (Tilt Macro Chart)
7	CTC	000 001-255	no From 19000K to 2700K
8	Color Macro	000 001-255	no View (Color Macro Chart)
9	Pattern	000 001-255	no View (Pattern Chart)
10	LED Effects	000-015 016-255	no View (LED Macro Chart)
11	LED Effect Speed	000-127 128 129-255	Speed from fast to slow Stop Speed from slow to fast
12	LED Effect Delay	000-255	From fast to slow
13	Background Color	000 001-255	no View (Background Color Chart)
14	Background Color Dimmer	000-255	0 - 100%
15	Background Color	000-255	0 - 100%

	Dimmer Fine		
16	Strobe	000-019 020-024	Off View (Strobe Chart)
17	Tilt 1	000-255	0 - 100%
18	Tilt Fine 1	000-255	0 - 100%
19	Zoom 1	000-255	0 - 100%
20	Dimmer 1	000-255	0 - 100%
21	Dimmer 1 Fine	000-255	0 - 100%
22	Red 1/Cyan 1	000-255	0 - 100% dimmer from dark to brighter
23	Red 1/Cyan 1 Fine	000-255	0 - 100%
24	Green 1/Magenta 1	000-255	0 - 100% dimmer from dark to brighter
25	Green 1/Magenta 1 Fine	000-255	0 - 100%
26	Blue 1/Yellow 1	000-255	0 - 100% dimmer from dark to brighter
27	Blue 1/Yellow 1 Fine	000-255	0 - 100%
28	White 1	000-255	0 - 100% dimmer from dark to brighter
29	White 1 Fine	000-255	0 - 100%
30	Tilt 2	000-255	0 - 100%
31	Tilt Fine 2	000-255	0 - 100%
32	Zoom 2	000-255	0 - 100%
33	Dimmer 2	000-255	0 - 100%
34	Dimmer 2 Fine	000-255	0 - 100%
35	Red 2/Cyan 2	000-255	0 - 100% dimmer from dark to brighter
36	Red 2/Cyan 2 Fine	000-255	0 - 100%
37	Green 2/Magenta 2	000-255	0 - 100% dimmer from dark to brighter
38	Green 2/Magenta 2 Fine	000-255	0 - 100%
39	Blue 2/Yellow 2	000-255	0 - 100% dimmer from dark to brighter
40	Blue 2/Yellow 2 Fine	000-255	0 - 100%
41	White 2	000-255	0 - 100% dimmer from dark to brighter
42	White 2 Fine	000-255	0 - 100%
43	Tilt 3	000-255	0 - 100%
44	Tilt Fine 3	000-255	0 - 100%
45	Zoom 3	000-255	0 - 100%
46	Dimmer 3	000-255	0 - 100%
47	Dimmer 3 Fine	000-255	0 - 100%
48	Red 3/Cyan 3	000-255	0 - 100% dimmer from dark to brighter
49	Red 3/Cyan 3 Fine	000-255	0 - 100%
50	Green 3/Magenta 3	000-255	0 - 100% dimmer from dark to brighter
51	Green 3/Magenta 3 Fine	000-255	0 - 100%
52	Blue 3/Yellow 3	000-255	0 - 100% dimmer from dark to brighter
53	Blue 3/Yellow 3 Fine	000-255	0 - 100%
54	White 3	000-255	0 - 100% dimmer from dark to brighter
55	White 3 Fine	000-255	0 - 100%
56	Tilt 4	000-255	0 - 100%

57	Tilt Fine 4	000-255	0 - 100%
58	Zoom 4	000-255	0 - 100%
59	Dimmer 4	000-255	0 - 100%
60	Dimmer 4 Fine	000-255	0 - 100%
61	Red 4/Cyan 4	000-255	0 - 100% dimmer from dark to brighter
62	Red 4/Cyan 4 Fine	000-255	0 - 100%
63	Green 4/Magenta 4	000-255	0 - 100% dimmer from dark to brighter
64	Green 4/Magenta 4 Fine	000-255	0 - 100%
65	Blue 4/Yellow 4	000-255	0 - 100% dimmer from dark to brighter
66	Blue 4/Yellow 4 Fine	000-255	0 - 100%
67	White 4	000-255	0 - 100% dimmer from dark to brighter
68	White 4 Fine	000-255	0 - 100%
69	Tilt 5	000-255	0 - 100%
70	Tilt Fine 5	000-255	0 - 100%
71	Zoom 5	000-255	0 - 100%
72	Dimmer 5	000-255	0 - 100%
73	Dimmer 5 Fine	000-255	0 - 100%
74	Red 5/Cyan 5	000-255	0 - 100% dimmer from dark to brighter
75	Red 5/Cyan 5 Fine	000-255	0 - 100%
76	Green 5/Magenta 5	000-255	0 - 100% dimmer from dark to brighter
77	Green 5/Magenta 5 Fine	000-255	0 - 100%
78	Blue 5/Yellow 5	000-255	0 - 100% dimmer from dark to brighter
79	Blue 5/Yellow 5 Fine	000-255	0 - 100%
80	White 5	000-255	0 - 100% dimmer from dark to brighter
81	White 5 Fine	000-255	0 - 100%
82	Tilt 6	000-255	0 - 100%
83	Tilt Fine 6	000-255	0 - 100%
84	Zoom 6	000-255	0 - 100%
85	Dimmer 6	000-255	0 - 100%
86	Dimmer 6 Fine	000-255	0 - 100%
87	Red 6/Cyan 6	000-255	0 - 100% dimmer from dark to brighter
88	Red 6/Cyan 6 Fine	000-255	0 - 100%
89	Green 6/Magenta 6	000-255	0 - 100% dimmer from dark to brighter
90	Green 6/Magenta 6 Fine	000-255	0 - 100%
91	Blue 6/Yellow 6	000-255	0 - 100% dimmer from dark to brighter
92	Blue 6/Yellow 6 Fine	000-255	0 - 100%
93	White 6	000-255	0 - 100% dimmer from dark to brighter
94	White6 Fine	000-255	0 - 100%

Pattern:

1-4	○○○○○○	135-139	○●○○○○
5-24	○●●●●●	140-144	○●●○○○
25-29	○○○●●●	145-149	○○○●●○
30-44	●○○●●●	150-154	○●○●○○
45-49	●○○○●○	155-160	○●○●○○
50-64	●●●○●○	161-164	○○●○○●
65-69	○●●●○○	165-169	●○○○●●
70-84	○●●●●○	170-184	○○○●○○
85-89	○○●●●●	185-199	●○○○○○
90-94	●●○●●○	200-214	○○○○○○
95-99	○●○●●○	215-219	○○○○○●
100-104	●●○●○○	220-234	●●●●●●
105-119	●●○○○○	235-239	●●●●●○
120-124	●●○○●○	240-244	●●●○●●
125-129	○○●○○○	245-249	●●●●●●
130-134	○●●○○○	250-254	●●○●○○
		255	●●●●●●

Strobe:

Strobe	000-019	Off
	020-024	On
	025-064	Strobe from fast to slow
	065-069	On
	070-084	100-0% strobe, from fast to slow
	085-089	On
	090-104	0-100% stroboscopic, fast to slow
	105-109	On
	110-124	Random strobe, from slow to fast
	125-129	On
	130-144	Random 100-0% strobe from slow to fast
	145-149	On
	150-164	Random 0-100% strobe from slow to fast
	165-169	On
	170-184	Pulse strobe 1 from fast to slow
	185-189	Light valve on
	190-204	Random pulse strobe from slow to fast
	205-209	On
	210-224	100-0-100% strobe, from fast to slow
	225-229	On
	230-244	Random pulse strobe 2 from slow to fast
	245-255	On

Tilt Macro:

Tilt macro feature	000-004	no
	005-010	Tilt Macro function 1
	011-016	Tilt Macro function 2
	017-028	Tilt Macro function 3
	029-040	Tilt Macro function 4
	041-052	Tilt Macro function 5
	053-058	Tilt macro function 6
	059-064	Tilt macro function 7
	065-070	Tilt Macro function 8
	071-076	Tilt Macro function 9
	077-082	Tilt macro function 10
	083-088	Tilt macro function 11
	089-095	Tilt macro function 12
	096-100	Tilt Macro function 13
	101-106	Tilt macro function 14
	107-112	Tilt Macro function 15
	114-118	Tilt macro function 16
	119-124	Tilt macro function 17
	125-130	Tilt macro function 18

131-136	Tilt Macro function 19
137-142	Tilt Macro function 20
143-148	Tilt macro function 21
149-154	Tilt macro function 22
155-160	Tilt macro function 23
161-166	Tilt macro function 24
167-172	Tilt macro function 25
173-178	Tilt Macro function 26
179-184	Tilt macro function 27
185-190	Tilt Macro function 28
191-196	Tilt Macro function 29
197-202	Tilt macro function 30
203-208	Tilt macro function 31
209-214	Tilt macro function 32
215-220	Tilt Macro function 33
221-226	Tilt macro function 34
227-232	Tilt macro function 35
233-238	Tilt macro function 36
239-244	Tilt macro function 37
245-250	Tilt Macro function 38
251-255	Tilt Macro function 39

Color Macro:

Color macros	000	no
	001-002	2700k
	003-004	3200k
	005-006	4200k
	007-008	5600k
	009-010	8000k
	011	blue
	012-048	Blue to cyan
	049	Cyan
	050-086	Cyan to green
	087	green
	088-124	Green to yellow
	125	yellow
	126-162	Yellow to red
	163	red
	164-200	Red to magenta
	201	Magenta
	202-238	Magenta to blue
	239	blue
	240-247	Color gradient, from fast to slow
	248-255	Color Jump, fast to slow

LED Macro:

LED Effects	000-000	No effect
	001-007	Effect 1
	008-015	Effect 2
	016-023	Effect 3
	024-031	Effect 4
	032-038	Effect 5
	039-046	Effect 6
	047-054	Effect 7
	055-062	Effect 8
	063-069	Effect 9
	070-077	Effect 10
	078-085	Effect 11
	086-093	Effect 12
	094-100	Effect 13
	101-108	Effect 14
	109-116	Effect 15
	117-124	Effect 16
	125-131	Effect 17
	132-139	Effect 18
	140-147	Effect 19
	148-155	Effect 20
	156-162	Effect 21
	163-179	Effect 22
	171-178	Effect 23
	179-186	Effect 24
	187-193	Effect 25
	194-201	Effect 26
	202-209	Effect 27
	210-217	Effect 28
	218-224	Effect 29
	225-232	Effect 30
	233-240	Effect 31
	241-255	Effect 32

Color Chart:

Background color	000	no
	001-002	2700k
	003-004	3200k
	005-006	4200k
	007-008	5600k
	009-010	8000k
	011	blue

	012-048	Blue to cyan
	049	Cyan
	050-086	Cyan to green
	087	green
	088-124	Green to yellow
	125	yellow
	126-162	Yellow to red
	163	red
	164-200	Red to magenta
	201	Magenta
	202-238	Magenta to blue
	239	blue
	240-247	Color gradient, from fast to slow
	248-255	Color jumps, from fast to slow

Control Settings:

Controls	000-009	no
	010-019	Reserved
	020-024	RGBW (Additive) Color mix mode
	025-029	CMY (subtractive) Color mix mode
	030-054	Retain
	055-059	Vertical reset
	060-064	Zoom reset
	065-069	Hold
	070-074	All motor reset
	075-079	Sequence 1-12
	080-084	12-1 in order
	085-089	Hold
	090-094	Vertical reverse open
	095-099	Hold
	100-104	Vertical reverse close
	105-134	Hold
	135-139	Fast dimming
	140-144	Smooth dimming
	145-149	Linear
	150-154	Square
	155-159	Inverse squares
	160-164	S-curve
	165-255	Reserved

4. Error message

4.1. Horizontal and vertical reset error

- Check if the position of the Pan mounting magnet has fallen off or is damaged;
- Check whether there are other interference items within the operating range of the Pan;
- Check whether the Pan hall component is damaged;
- Check whether the leads connecting the Pan Hall components to the PCB board are in poor contact or disconnected;
- Check if the Pan motor is damaged;
- Check if the related circuit of the Pan motor drive board is damaged;

4.2. Horizontal and vertical encoder errors

- Check whether the encoder is damaged;
- Check whether the leads of the encoder and the PCB board are in poor contact or disconnected;

4.3. The focus is reset incorrectly

- Check that the location of the focusing mounting magnet has fallen off or is damaged;
- Check whether there are other interference items within the range of focusing operation;
- Check whether the leads connecting the focusing hall component and the PCB board are in poor contact or disconnected;
- Check whether the focusing motor is damaged;
- Check whether the related circuit of the focusing motor drive board is damaged;

4.4. Temperature error

- Check that the temperature detection board is working properly;
- Check whether the components of the temperature detection board are damaged;
- Check whether the lead of the temperature detection board is installed in place or disconnected;

5. Common faults

According to some common faults, the corresponding solutions are put forward. Any problems that cannot be solved should be dealt with by professionals. Disconnect the light fixture from the power supply before maintaining it.

1. The lamp bead does not light, the lamp does not operate, and the fan does not turn

- Check that the voltage that matches the light fixture is installed;
- Check whether the lamp power supply connection or control switch is in poor contact;
- Check whether the power supply is insufficient;
- Check that the DMX512 controller is sending instructions.

2. The light fixture does not accept control from the console after normal reset

- Check luminaire digital start address value and function options 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 invalid, check whether the signal amplifier connected to the series is invalid;
- Check whether the communication line is too long or other devices interfere with each other;
- Optimize wiring, shorten the length of the control signal line, high-voltage and low-voltage lines

separate wiring;

- Add signal amplifiers;
- Signal line using high quality shielded twisted pair wire;
- Connect the signal terminal resistor (120 ohms) at the end of the lamp.

3. Luminaire does not start

- Check that the power supply parameters are consistent with the luminaire;
- Check the lamps in the long distance transportation process due to extrusion deformation, internal parts vibration, moisture and other reasons, resulting in poor contact
Or fall off.
- Please check whether the internal wire integration connector is loose or loose.
- Check whether the electronic components of the lamp (such as electronic transformer, PCB board, motor control board, etc.) are loose, short circuit and burned out.

4. When working, the action of the Pan or Tilt of the luminaire is abnormal

- Check them one by one by following the previous step;
- Check whether the transmission belt corresponding to the Pan and Tilt direction in the lamp falls off and breaks;
- Check whether the data feedback receiver (Hall) corresponding to the Pan and Tilt directions in the luminaire is damaged;
- Restart and reset once.

5. A channel is out of control

- Motor wire is in poor contact or damaged
- Stepper motor may be damaged
- The drive circuit of the motor may be damaged

6. Equipment cleaning

In order to maintain the best performance of the lamp and ensure the best lighting effect, it is absolutely necessary to keep the lamp clean. Lamps must be cleaned regularly to avoid Dust, dirt and flue gas residues, etc. accumulate on the surface or inside of the luminaire, and the frequency of cleaning depends on the application environment. If due to installation construction If the environment causes dust to enter the lamp, please clean it immediately to avoid damage to the optical part of the lamp due to too much dust.

- It is recommended to use a soft lint-free cloth and a good quality glass cleaning solution, and under no circumstances should solvents be used.
- Wipe the parts carefully to avoid residue of cleaning liquid
- The outside of the lens should be wiped at least once every 20 days and adjusted according to the use environment