

8 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.

 MOXLITE



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 MOXLITE

JIM



User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

www.moxlite.com

1 SAFETY INSTRUCTIONS



CAUTION

Becareful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

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



IMPORTANT

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.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rated voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

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, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

108	Light strip 6 red	000 - 255	Light strip 6 red dimming
109	Light strip 6 green	000 - 255	Light strip 6 green dimming
110	Light strip 6 blue	000 - 255	Light strip 6 blue dimming
111	Light strip 6 effect	000 - 255	Light strip 6 dynamic effect selection
112	Light strip 6 effect speed	000 - 255	Light strip 6 dynamic effect speed
113	Light strip 7 dimming	000 - 255	Light strip 7 linear dimming
114	Light strip 7 strobe	000 - 255	Light strip 7 strobe
115	Light strip 7 red	000 - 255	Light strip 7 red dimming
116	Light strip 7 green	000 - 255	Light strip 7 green dimming
117	Light strip 7 blue	000 - 255	Light strip 7 blue dimming
118	Light strip 7 effect	000 - 255	Light strip 7 dynamic effect selection
119	Light strip 7 effect speed	000 - 255	Light strip 7 dynamic effect speed
120	Light strip 8 dimming	000 - 255	Light strip 8 linear dimming
121	Light strip 8 strobe	000 - 255	Light strip 8 strobe
122	Light strip 8 red	000 - 255	Light strip 8 red dimming
123	Light strip 8 green	000 - 255	Light strip 8 green dimming
124	Light strip 8 blue	000 - 255	Light strip 8 blue dimming
125	Light strip 8 effect	000 - 255	Light strip 8 dynamic effect selection
126	Light strip 8 effect speed	000 - 255	Light strip 8 dynamic effect speed

58	White 5	000 - 255	White 5
59	Red 6	000 - 255	Red 6
60	Green 6	000 - 255	Green 6
61	Blue 6	000 - 255	Blue 6
62	White 6	000 - 255	White 6
63	Red 7	000 - 255	Red 7
64	Green 7	000 - 255	Green 7
65	Blue 7	000 - 255	Blue 7
66	White 7	000 - 255	White 7
67	Red 8	000 - 255	Red 8
68	Green 8	000 - 255	Green 8
69	Blue 8	000 - 255	Blue 8
70	White 8	000 - 255	White 8
71	Dimming strip 1	000 - 255	Light strip 1 linear dimming
72	Light strip 1 strobe	000 - 255	Light strip 1 strobe
73	Light strip 1 red	000 - 255	Light strip 1 red dimming
74	Light strip 1 green	000 - 255	Light strip 1 green dimming
75	Light strip 1 blue	000 - 255	Light strip 1 blue dimming
76	Light strip 1 effect	000 - 255	Light strip 1 dynamic effect selection
77	Light strip 1 effect speed	000 - 255	Light strip 1 dynamic effect speed
78	Light strip 2 dimming	000 - 255	Light strip 2 linear dimming
79	Light strip 2 strobe	000 - 255	Light strip 2 strobe
80	Light strip 2 red	000 - 255	Light strip 2 red dimming
81	Light strip 2 green	000 - 255	Light strip 2 green dimming
82	Light strip 2 blue	000 - 255	Light strip 2 blue dimming
83	Light strip 2 effect	000 - 255	Light strip 2 dynamic effect selection
84	Light strip 2 effect speed	000 - 255	Light strip 2 dynamic effect speed
85	Light strip 3 dimming	000 - 255	Light strip 3 linear dimming
86	Light strip 3 strobe	000 - 255	Light strip 3 strobe
87	Light strip 3 red	000 - 255	Light strip 3 red dimming
88	Light strip 3 green	000 - 255	Light strip 3 green dimming
89	Light strip 3 blue	000 - 255	Light strip 3 blue dimming
90	Light strip 3 effect	000 - 255	Light strip 3 dynamic effect selection
91	Light strip 3 effect speed	000 - 255	Light strip 3 dynamic effect speed
92	Light strip 4 dimming	000 - 255	Light strip 4 linear dimming
93	Light strip 4 strobe	000 - 255	Light strip 4 strobe
94	Light strip 4 red	000 - 255	Light strip 4 red dimming
95	Light strip 4 green	000 - 255	Light strip 4 green dimming
96	Light strip 4 blue	000 - 255	Light strip 4 blue dimming
97	Light strip 4 effect	000 - 255	Light strip 4 dynamic effect selection
98	Light strip 4 effect speed	000 - 255	Light strip 4 dynamic effect speed
99	Light strip 5 dimming	000 - 255	Light strip 5 linear dimming
100	Light strip 5 strobe	000 - 255	Light strip 5 strobe
101	Light strip 5 red	000 - 255	Light strip 5 red dimming
102	Light strip 5 green	000 - 255	Light strip 5 green dimming
103	Light strip 5 blue	000 - 255	Light strip 5 blue dimming
104	Light strip 5 effect	000 - 255	Light strip 5 dynamic effect selection
105	Light strip 5 effect speed	000 - 255	Light strip 5 dynamic effect speed
106	Light strip 6 dimming	000 - 255	Light strip 6 linear dimming
107	Light strip 6 strobe	000 - 255	Light strip 6 strobe

2 UNPACKING

Jim is a high-performance stage lighting bar fixture that features 8 individual moving MINI heads, each of which is equipped with a powerful 60W 4-IN-1 RGBW LED light source. With its versatile design and advanced features, specially the mirror based optical system, Jim is capable of producing a wide range of dynamic sharp and collimated STRAIGHT-BEAM and CROSS-BEAM lighting effects that are sure to captivate audiences and enhance performances. Also, thanks to the ingenious front neon ring design on each head, the BAR could bring ultra brilliant and magic lighting effect to the lighting designers.

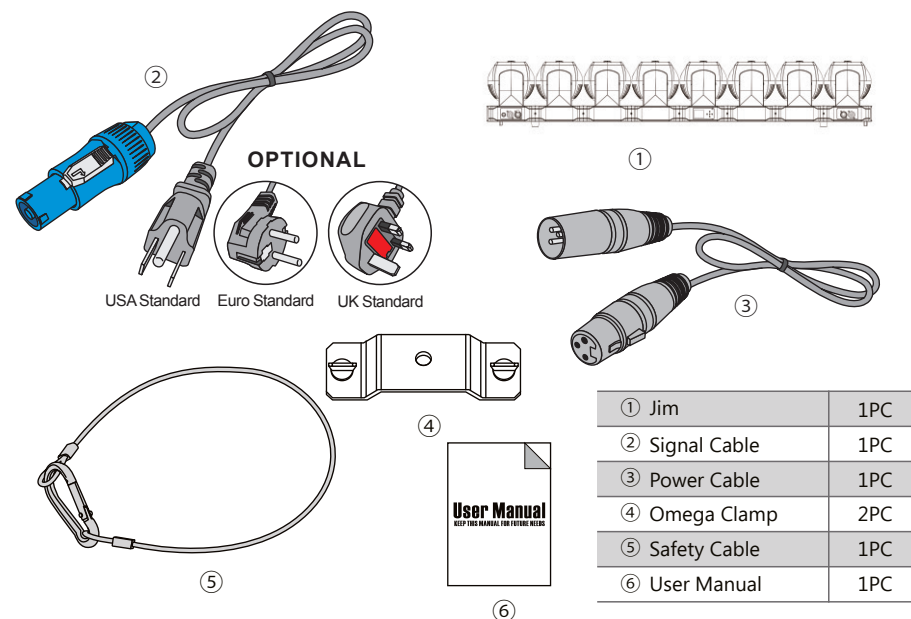
One of the standout features of the Jim is its flexible 220° horizontally TILT movement, which allows the fixture to produce outstanding CROSS-BEAM. This makes it easy for lighting professionals and performers to create customized lighting setups that are tailored to the unique needs of their events.

Jim also features a range of advanced lighting effects, including strobe, color mixing, and chase effects. These effects can be easily accessed and controlled via the controller, allowing for precise and customizable lighting setups.

In addition to its advanced features, the Jim is built to withstand the rigors of live events and touring. Its rugged construction and high-quality components ensure that it will deliver reliable and consistent performance night after night. The users could connect different Jim seamlessly and get synchronized movement that produces an impressive wave of light, paralleled to each other due to its 3.5° projection angle.

Overall, Jim is a powerful and versatile lighting fixture that is sure to impress audiences and enhance performances. Its advanced features and flexible design make it a popular choice among lighting professionals and performers alike.

At the meantime, Jim could be mounted horizontally or vertically on our CB1 (CRAZYBASE 1, an optional moving base system) to get continuous PAN movement with variable speed that make Jim with most dynamic effect for the users.

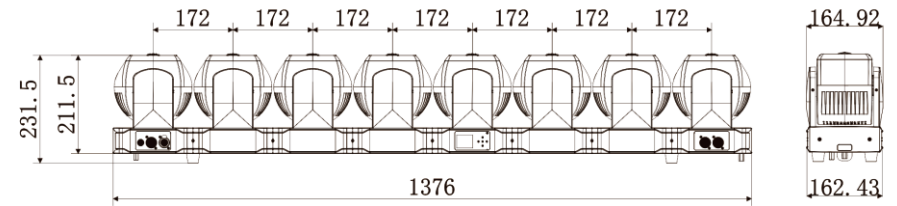


3 FEATURES & SPECIFICATIONS

8*60W 4-IN-1 RGBW LEDs
 (8*30)*0.2W 3-IN-1 SMD RGB LEDs
 Flicker free operation for broadcast TV and FILM
 Life Span: 50000H
 8PCS high efficiency lens
 3.5° Projection angle
 TILT: 220° (8/16 bit)
 Fast, quiet, smooth and precise 2-phase motors
 Smooth, fast and precise resolution for TILT movement with low noise operation
 Scan position memory, auto reposition after unexpected movement
 Pixel mapping capability with each LEDs controllable individually
 Sophisticated 4 colors RGBW mixed
 Linear CTO 2500-8000K
 Sharp beam effect
 Preset static patterns
 Preset dynamic patterns with variable speed
 Preset dynamic color macro with variable speed
 Each head with strip effect with different built-in macros
 (variable speed control)
 1-25Hz shutter/strobe effect with variable speed
 Preset pulse strobe effect with variable speed
 Random strobe effect with variable speed
 0-100% Smooth linear LED dimming
 21/51/77/126 DMX channels USITT DMX-512
 DMX512, master-slave, sound activated or auto operation
 DMX recorder and edit function integrated
 RDM available (Remote Device Management)
 Shielded input signal protection for stable signal without interference
 3-Pin XLR connectors IN/OUT
 1.44" TFT LCD display
 English/Chinese menu
 5 Control buttons
 180° Reversible for LCD display
 Display auto OFF
 Electronic supply with active PFC
 AC100-240V 50/60Hz
 PowerCON IN/OUT with fuse
 570W Power consumption
 -25°C to 45°C ambient temperature
 IP20 protection rating
 N.W.: 22.6kg
 G.W.: 25kg
 Product Dimensions: 164.92(D)*1376(W)*231.5(H)mm
 Packing Dimensions: 375(D)*1450(W)*390(H)mm

24	FOREGROUND SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at slow frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at fast frequency
		252 - 255	Light ON
25	FOREGROUND DIMMER	000 - 255	Linear Dimmer 0 – 100%
26	PATTERN MODE	000 - 005	Normal
		006 - 130	Static
		131 - 255	Dynamic
27	PATTERN SELECTION	000 - 007	Effect 1
		...	...
		255	Effect XXX
28	PATTERN SPEED	000 - 255	Indexing
		000 - 124	Speed control fast to slow, forward
		125 - 130	Stop
		131 - 255	Speed control slow to fast, Backward
29	PATTERN FADE	000 - 127	Fade In/Out
		128 - 255	Fade Out
30	PATTERN TRANSITION	000 - 255	Crossfade between layers/pattern (0: instant transition - 255: 3 seconds transition)
31	TILT 1	000 - 255	Mirror 1 positioning (Default REVERSE HEADS option OFF)
32	TILT 2	000 - 255	Mirror 2 positioning (Default REVERSE HEADS option OFF)
33	TILT 3	000 - 255	Mirror 3 positioning (Default REVERSE HEADS option OFF)
34	TILT 4	000 - 255	Mirror 4 positioning (Default REVERSE HEADS option OFF)
35	TILT 5	000 - 255	Mirror 5 positioning (Default REVERSE HEADS option OFF)
36	TILT 6	000 - 255	Mirror 6 positioning (Default REVERSE HEADS option OFF)
37	TILT 7	000 - 255	Mirror 7 positioning (Default REVERSE HEADS option OFF)
38	TILT 8	000 - 255	Mirror 8 positioning (Default REVERSE HEADS option OFF)
39	Red 1	000 - 255	Red 1
40	Green 1	000 - 255	Green 1
41	Blue 1	000 - 255	Blue 1
42	White 1	000 - 255	White 1
43	Red 2	000 - 255	Red 2
44	Green 2	000 - 255	Green 2
45	Blue 2	000 - 255	Blue 2
46	White 2	000 - 255	White 2
47	Red 3	000 - 255	Red 3
48	Green 3	000 - 255	Green 3
49	Blue 3	000 - 255	Blue 3
50	White 3	000 - 255	White 3
51	Red 4	000 - 255	Red 4
52	Green 4	000 - 255	Green 4
53	Blue 4	000 - 255	Blue 4
54	White 4	000 - 255	White 4
55	Red 5	000 - 255	Red 5
56	Green 5	000 - 255	Green 5
57	Blue 5	000 - 255	Blue 5

126CH	Function	Dmx Value	Description
1	RED	000 - 255	Linear 0 - 100%
2	RED FINE	000 - 255	Linear Fine Red (16 Bit)
3	GREEN	000 - 255	Linear 0 - 100%
4	GREEN FINE	000 - 255	Linear Fine Green (16 Bit)
5	BLUE	000 - 255	Linear 0 - 100%
6	BLUE FINE	000 - 255	Linear Fine Blue (16 Bit)
7	WHITE	000 - 255	Linear 0 - 100%
8	WHITE FINE	000 - 255	Linear Fine White (16 Bit)
9	CTO	000 - 255	8000K to 2500K
		000 - 009	CTO Off
		010 - 255	8000K to 2500K
10	MACRO COLOUR	000 - 255	MACRO COLOUR
11	BACKGROUND SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation at linearly from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at low frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at high frequency
		252 - 255	Light ON
12	BACKGROUND DIMMER	000 - 255	Linear Dimmer 0 – 100%
13	MASTER SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at low frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at high frequency
		252 - 255	Light ON
14	MASTER DIMMER	000 - 255	Linear Dimmer 0 – 100%
15	MASTER DIMMER FINE	000 - 255	Fine Dimmer (16 bit)
16	FUNCTION	000 - 255	FUNCTION
17	RESET	000 - 025	Unused Range
		026 - 127	Tilt Reset
		128 - 255	Complete Reset
18	DUMMY	000 - 255	DUMMY
19	SHAPE RED	000 - 255	Linear 0 – 100%
20	SHAPE GREEN	000 - 255	Linear 0 – 100%
21	SHAPE BLUE	000 - 255	Linear 0 – 100%
22	SHAPE WHITE	000 - 255	Linear 0 – 100%
23	FOREGROUND CTO – TBD	000 - 255	TBD

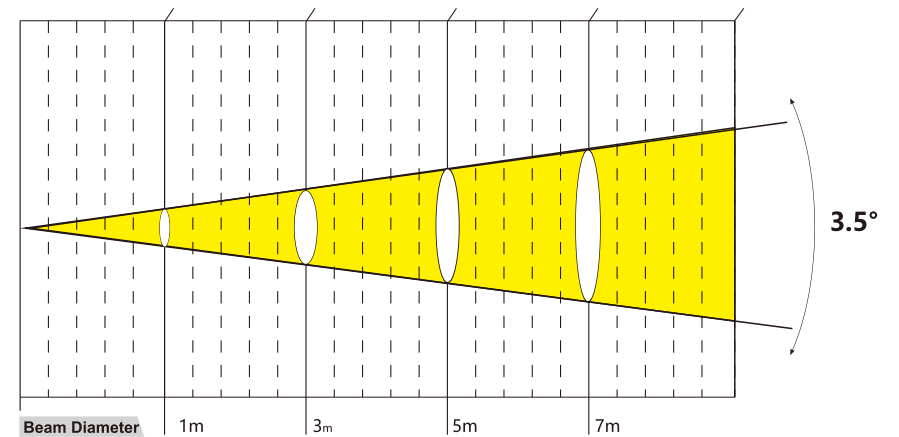


4 PHOTOMETRIC DATA

Photometric Beam Angle Data 3.5° Beam Angle $LUX \times 0.0929 = FC$

R	1600	206	80	42
G	3860	520	195	102
B	144	20	8	4
W	4673	647	239	124
RGBW	9640	1278	487	256

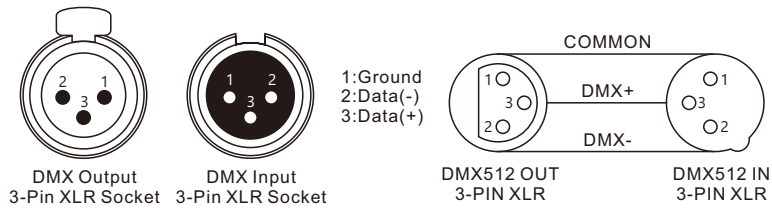
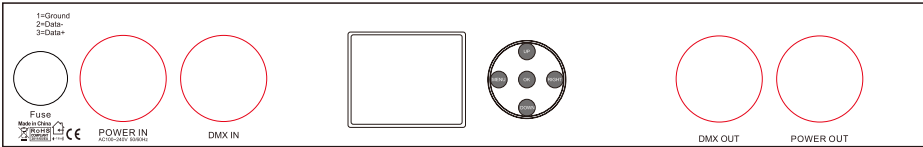
(LUX)



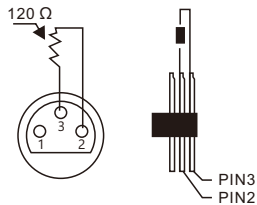
5 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



58	White 5	000 - 255	White 5
59	Red 6	000 - 255	Red 6
60	Green 6	000 - 255	Green 6
61	Blue 6	000 - 255	Blue 6
62	White 6	000 - 255	White 6
63	Red 7	000 - 255	Red 7
64	Green 7	000 - 255	Green 7
65	Blue 7	000 - 255	Blue 7
66	White 7	000 - 255	White 7
67	Red 8	000 - 255	Red 8
68	Green 8	000 - 255	Green 8
69	Blue 8	000 - 255	Blue 8
70	White 8	000 - 255	White 8
71	Light strip dimming	0 - 255	Light strip linear dimming
72	Light band strobe	0 - 255	Light band strobe
73	The light is red.	0 - 255	The light is dimmed red.
74	The light is green.	0 - 255	The light is dimmed by green.
75	The light is blue.	0 - 255	The light is dimmed in blue.
76	Lightband effect	0 - 255	Lightband dynamic effect selection
77	Lightband effect speed	0 - 255	Light strip dynamic effect speed

29	PATTERN FADE	000 - 127	Fade In/Out
		128 - 255	Fade Out
30	PATTERN TRANSITION	000 - 255	Crossfade between layers/pattern (0: instant transition - 255: 3 seconds Transition) ONLY ON LAYER MODE
31	TILT 1	000 - 255	Mirror 1 positioning (Default REVERSE HEADS option OFF)
32	TILT 2	000 - 255	Mirror 2 positioning (Default REVERSE HEADS option OFF)
33	TILT 3	000 - 255	Mirror 3 positioning (Default REVERSE HEADS option OFF)
34	TILT 4	000 - 255	Mirror 4 positioning (Default REVERSE HEADS option OFF)
35	TILT 5	000 - 255	Mirror 5 positioning (Default REVERSE HEADS option OFF)
36	TILT 6	000 - 255	Mirror 6 positioning (Default REVERSE HEADS option OFF)
37	TILT 7	000 - 255	Mirror 7 positioning (Default REVERSE HEADS option OFF)
38	TILT 8	000 - 255	Mirror 8 positioning (Default REVERSE HEADS option OFF)
39	Red 1	000 - 255	Red 1
40	Green 1	000 - 255	Green 1
41	Blue 1	000 - 255	Blue 1
42	White 1	000 - 255	White 1
43	Red 2	000 - 255	Red 2
44	Green 2	000 - 255	Green 2
45	Blue 2	000 - 255	Blue 2
46	White 2	000 - 255	White 2
47	Red 3	000 - 255	Red 3
48	Green 3	000 - 255	Green 3
49	Blue 3	000 - 255	Blue 3
50	White 3	000 - 255	White 3
51	Red 4	000 - 255	Red 4
52	Green 4	000 - 255	Green 4
53	Blue 4	000 - 255	Blue 4
54	White 4	000 - 255	White 4
55	Red 5	000 - 255	Red 5
56	Green 5	000 - 255	Green 5
57	Blue 5	000 - 255	Blue 5

6 MENU OPERATIONS

Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
Fixture	Dmx Mode	21CH / 51CH / 77CH / 126CH	
	Run Mode	DMX / Host	
	Tilt Invert	Close / Open	
	No Dmx Signal	Clear / Hold	
	PT Calibrate	Close / Open	
	Frequency	900/1000/1100/1200/1300/1400/1500/2500/4000/5000/ 6000/10000/15000/20000/25000Hz	
	Sound Control	1 -- 99	
	Tilt	000 - 255	
	Tilt Fine	000 - 255	
	?	?	
Information	Time	Current Time	xxH
		Total Time	xxH
	Sensor	All Sensor are ok!	
	Temperature	Head Temp	xxxC
	Software Version	Panel	Vx.xx
		Motor	Vx.xx
Factory	Password	000 - 255	
	Tilt1	000 - 255	
	Tilt2	000 - 255	
	Tilt3	000 - 255	
	Tilt4	000 - 255	
	Tilt5	000 - 255	
	Tilt6	000 - 255	
	Tilt7	000 - 255	
	Tilt8	000 - 255	
	Red1	000 - 255	
	Green1	000 - 255	
	Blue1	000 - 255	
	White1	000 - 255	
	...	...	
	Red8	000 - 255	
	Green8	000 - 255	
	Blue8	000 - 255	
	White8	000 - 255	
Fixture Reset	Motor Reset	Cancel / Run	
	Factory	Cancel / Run	
Display	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

7 DMX CHANNELS

21CH	Function	Dmx Value	Description
1	Vertical motion	0 - 255	Vertical motion 0~270 degrees
2	Vertical fine-tuning	0 - 255	Vertical fine-tuning
3	Motor speed	0 - 255	The speed of the motor changes from fast to slow
4	Dimming	0 - 255	Linear dimming
5	Strobe	0 - 3	Close the light.
		4 - 103	Strobe, speed from slow to fast
		104 - 107	Consecrate
		108 - 207	Pulse strobe, speed changing from slow to fast
		208 - 212	Consecrate
		213 - 225	Random strobe, low speed
		226 - 238	Random strobe, medium speed
		239 - 251	Random strobe, high speed
		252 - 255	Consecrate
6	Red	0 - 255	Red linear dimming
7	Green	0 - 255	Green linear dimming
8	Blue	0 - 255	Blue linear dimming
9	White	0 - 255	White linear dimming
10	Color macro	0 - 255	Color red selection
11	Color temperature		8000K to 2500K
		000 - 009	Color temperature turned off
		010 - 255	8000K to 2500K
12	Result	0 - 255	Dynamic effect selection
13	Effect speed	0 - 255	Dynamic effect speed
14	Reduce	0 - 255	Reduce
		0 - 25	Ineffective
		26 - 255	Reset execution (stay for 5 seconds)
15	Light strip dimming	0 - 255	Light strip linear dimming

14	MASTER DIMMER	000 - 255	Linear Dimmer 0 – 100%
15	Master DIMMER FINE	000 - 255	Fine Dimmer (16 bit)
16	FUNCTION	000 - 255	FUNCTION
17	RESET	000 - 025	Unused Range
		026 - 127	Tilt Reset
		128 - 255	Complete Reset
18	DUMMY	000 - 255	DUMMY
19	SHAPE RED	000 - 255	Linear 0 – 100%
20	SHAPE GREEN	000 - 255	Linear 0 – 100%
21	SHAPE BLUE	000 - 255	Linear 0 – 100%
22	SHAPE WHITE	000 - 255	Linear 0 – 100%
23	FOREGROUND CTO – TBD	000 - 255	TBD
24	FOREGROUND SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at slow frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at fast frequency
		252 - 255	Light ON
25	FOREGROUND DIMMER	000 - 255	Linear Dimmer 0 – 100%
26	PATTERN MODE	000 - 005	Normal
		006 - 130	Static
		131 - 255	Dynamic
27	PATTERN SELECTION	000 - 007	Effect 1
		...	...
		255	Effect XXX
28	PATTERN SPEED	000 - 255	Indexing
		000 - 124	Speed control fast to slow, forward
		125 - 130	Stop
		131 - 255	Speed control slow to fast, Backward

77CH	Function	Dmx Value	Description
1	RED	000 - 255	Linear 0 -100%
2	RED FINE	000 - 255	Linear Fine Red (16 Bit)
3	GREEN	000 - 255	Linear 0 -100%
4	GREEN FINE	000 - 255	Linear Fine Green (16 Bit)
5	BLUE	000 - 255	Linear 0 -100%
6	BLUE FINE	000 - 255	Linear Fine Blue (16 Bit)
7	WHITE	000 - 255	Linear 0 -100%
8	White FINE	000 - 255	Linear Fine White (16 Bit)
9	Chief technology officer	000 - 255	8000K to 2500K
		000 - 009	CTO Off
		010 - 255	8000K to 2500K
Ten	MACRO COLOUR	000 - 255	MACRO COLOUR
11	BACKGROUND SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation at linearly from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at low frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at high frequency
		252 - 255	Light ON
12	BACKGROUND DIMMER	000 - 255	Linear Dimmer 0 – 100%
13	MASTER SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at low frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at high frequency
		252 - 255	Light ON

16	Light band strobe	0 - 255	Light band strobe
17	The light is red.	0 - 255	The light is dimmed red.
18	The light is green.	0 - 255	The light is dimmed by green.
19	The light is blue.	0 - 255	The light is dimmed in blue.
20	Lightband effect	0 - 255	Lightband dynamic effect selection
21	Lightband effect speed	0 - 255	Light strip dynamic effect speed

51CH	Function	Dmx Value	Description
1	RED	000 - 255	Linear 0 - 100%
2	GREEN	000 - 255	Linear 0 - 100%
3	BLUE	000 - 255	Linear 0 - 100%
4	WHITE	000 - 255	Linear 0 - 100%
5	Chief technology officer	000 - 255	8000K to 2500K
		000 - 009	CTO Off
		010 - 255	8000K to 2500K
6	MACRO COLOUR	000 - 255	MACRO COLOUR
7	MASTER SHUTTER	000 - 003	Light OFF
		004 - 103	Strobe frequency from slow (1 flash/sec) to fast (25 flash/sec)
		104 - 107	Light ON
		108 - 207	Pulsation frequency from slow (1 flash/sec) to fast (25 flash/sec)
		208 - 212	Light ON
		213 - 225	Random Strobe at low frequency
		226 - 238	Random Strobe at medium frequency
		239 - 251	Random Strobe at high frequency
		252 - 255	Light ON
8	MASTER DIMMER	000 - 255	Linear Dimmer 0 – 100%
9	Master DIMMER FINE	000 - 255	Fine Dimmer (16 bit)
Ten	FUNCTION	000 - 255	FUNCTION
11	RESET	000 - 025	Unused Range
		026 - 127	Tilt Reset
		128 - 255	Complete Reset
12	DUMMY	000 - 255	DUMMY
13	TILT 1	000 - 255	Mirror 1 positioning (Default REVERSE HEADS option OFF)
14	TILT 2	000 - 255	Mirror 2 positioning (Default REVERSE HEADS option OFF)
15	TILT 3	000 - 255	Mirror 3 positioning (Default REVERSE HEADS option OFF)
16	TILT 4	000 - 255	Mirror 4 positioning (Default REVERSE HEADS option OFF)
17	TILT 5	000 - 255	Mirror 5 positioning (Default REVERSE HEADS option OFF)
18	TILT 6	000 - 255	Mirror 6 positioning (Default REVERSE HEADS option OFF)
19	TILT 7	000 - 255	Mirror 7 positioning (Default REVERSE HEADS option OFF)
20	TILT 8	000 - 255	Mirror 8 positioning (Default REVERSE HEADS option OFF)
21	Red 1	000 - 255	Red 1

22	Green 1	000 - 255	Green 1
23	Blue 1	000 - 255	Blue 1
24	Red 2	000 - 255	Red 2
25	Green 2	000 - 255	Green 2
26	Blue 2	000 - 255	Blue 2
27	Red 3	000 - 255	Red 3
28	Green 3	000 - 255	Green 3
29	Blue 3	000 - 255	Blue 3
30	Red 4	000 - 255	Red 4
31	Green 4	000 - 255	Green 4
32	Blue 4	000 - 255	Blue 4
33	Red 5	000 - 255	Red 5
34	Green 5	000 - 255	Green 5
35	Blue 5	000 - 255	Blue 5
36	Red 6	000 - 255	Red 6
37	Green 6	000 - 255	Green 6
38	Blue 6	000 - 255	Blue 6
39	Red 7	000 - 255	Red 7
40	Green 7	000 - 255	Green 7
41	Blue 7	000 - 255	Blue 7
42	Red 8	000 - 255	Red 8
43	Green 8	000 - 255	Green 8
44	Blue 8	000 - 255	Blue 8
45	Light strip dimming	0 - 255	Light strip linear dimming
46	Light band strobe	0 - 255	Light band strobe
47	The light is red.	0 - 255	The light is dimmed red.
48	The light is green.	0 - 255	The light is dimmed by green.
49	The light is blue.	0 - 255	The light is dimmed in blue.
50	Lightband effect	0 - 255	Lightband dynamic effect selection
51	Lightband effect speed	0 - 255	Light strip dynamic effect speed



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