

I. Product Technical Specifications

Voltage: AC 90-240V, 50-60Hz

Total Power: 300W

Light Source: 10 x 15W high-brightness 4-in-1 LED chips (), 1 x 100W white light

Strobe: 1-25 times/second strobe effect

Dimming: 0-100% linear dimming.

Channels: Built-in 3 channel modes: 22CH/28CH/64CH

Control: DMX512, Standalone, Sound Control, RDM

Horizontal scan: 540 degrees + 16-bit fine adjustment

Vertical scan: 270 degrees + 16-bit fine adjustment

Display: Chinese/English display

Color Wheel: 7 colors + white light, with rainbow effect

Pattern wheel: 7 glass patterns + white light

Rotating Disc: One rotating disc

Features:

1. Each LED can be individually controlled.
2. Unique honeycomb-patterned lens rotates infinitely for diverse dreamlike effects.
3. Combines beam focusing, color rendering, and special effects in one versatile unit.
4. Scan position memory function with automatic reset.

Features fan-assisted cooling and automatic temperature detection. The system automatically shuts down to protect the lamp when excessive heat is detected.

II Display Panel and Button Definitions



Menu key: Enter/Return to main menu

Up Arrow: Scroll up through menu options / Increment parameter values

Down Arrow: Scroll down through menu functions / Decrease parameter values

Confirm key: Select menu function; confirm and save when modifying menu function parameters.

Right Arrow Key: Scroll right through menu functions / Select menu functions and confirm/save modifications to menu function parameters.

II. Menu Functions

After powering on and performing a full system reset, press the Menu key to enter the main menu (the main menu interface will exit after 40 seconds of inactivity). Refer to the main menu function table (5 main menu options total). Use the Up or Down keys to select a main menu option, then press the Confirm key to enter and modify the functional parameters of each menu. After modification, press the Confirm key again to save the current functional parameters (saved parameters retain memory after power loss).

Main Menu	Submenu	Menu Function Description
1. System Settings	1. DMX Address	Increase or decrease the DMX address code (selectable range: 001-512). Press the confirmation key to save. Default: 001.
	2. Encoder	Use the up/down keys to toggle the encoder on/off. Press the confirmation key to save. Default: On.
	3. Warning	Warning prompt for enabling/disabling the screen saver interface
	4. Voice Control Sensitivity	Set voice control sensitivity value: 0~100. Press the confirmation key to save. Default setting is off.

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	5. Synchronization Settings	Synchronize local settings to other devices via DMX
	6. Advanced Menu	Enter the password input screen for advanced menu settings.
2. Operating Mode	1. Operating Mode	Use Up/Down to select DMX/Sound/Auto mode. Press Confirm to save. Default: DMX.
	2. Channel Selection	Use the up/down buttons to select the channel: CH22/CH28/CH64. Press the confirmation button to save. Default is CH28.
3. Manual Control	1. X-Axis	Use the up/down buttons to modify the X-axis parameter value (adjustable range: 000-255). Press the confirm button to save. Default: 000.
	2. X-Axis Fine Adjustment	Adjust the X-axis fine-tuning parameter value up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.
	3. Y-axis	Adjust the Y-axis parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default value: 000.
	4. Y-axis fine adjustment	Adjust the Y-axis fine adjustment parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default value: 000.
	5. XY Speed	Adjust the XY speed parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default value: 000.
	6. Overall Dimming	Adjust the dimming brightness value up or down (adjustable range 000-255). Press the confirmation key to save. Default value: 000.
	7. Overall Strobe	Adjust the strobe value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	8. Beam White Light	Adjust the brightness value of the beam's white light up or down (adjustable range 000-255). Press the confirmation key to save. Default value is 000.
	9. Beam Color Wheel	Adjust the beam color wheel parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default value: 000.
	10. Beam Pattern Wheel	Adjust the beam pattern wheel parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	11. Dye Rotation	Adjust the color rotation parameter value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	12. Color RGBW	Adjust the RGBW value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	13. Dye Effect	Adjust the color effect value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	14. Dye Speed	Adjust the color effect speed value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.
	15. Dyeing Background Color	Adjust the background color value for the tinting effect up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.
	16. Dyeing Background Dimming	Adjust the dimming value for the background color of the coloring effect up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.
	17. LED Strip RGB	Adjust the RGB values for the light strip up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.
	18. Light Strip Effect	Adjust the light strip effect value up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.
	19. Light Strip	Adjust the speed value for the light strip effect up or down (adjustable range 000-255). Press

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	Speed	the confirmation key to save. Default value is 000.	
	20. Light Strip Background Color	Adjust the LED strip effect background color value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.	
	21. Light Strip Background Dimming	Adjust the light strip effect background color dimming value up or down (adjustable range 000-255). Press the confirmation key to save. Default: 000.	
	22. Macro Function	Adjust the macro function value up or down (adjustable range: 000-255). Press the confirmation key to save. Default: 000.	
4. Display Settings	1. Language Selection	Use the up/down keys to select Chinese/EN (English). Press the confirmation key to save. Default: Chinese.	
	2. Reverse Display Setting	Use the up/down keys to select Off/On for reverse display. Press the confirmation key to save. Default: Off.	
	3. Screen Saver	Use the up/down keys to select Screen Saver Off/On. Press the confirmation key to save. Default: On.	
	4. Software Version	VM5 program identification code, cannot be modified.	
5. System Information	1. Reset Information	View reset error logs	
	2. DMX Data	View received DMX data information	
	3. Sensor Information	View sensor data information	
	4. Timing Information	View system runtime and encryption time information	
	5. Version Information	View hardware and software version information	
6. Factory Settings	Display "Please enter password!" Use the up/down keys to modify to 15100, then press the confirmation key to enter factory settings.	1. X-axis Calibration	Use Up/Down to modify X-axis calibration parameter (range 0-255). Press Confirm to save. Default: 128
		2. X-axis Speed	Use the up/down keys to adjust the X-axis speed parameter (range 0-255). Press the confirmation key to save. Default: 255
		3. X-axis Travel	Adjust the X-axis travel parameter up or down (range 0-255). Press the confirmation key to save. Default: 255
		4. Y-axis Calibration	Adjust the Y-axis calibration parameter up or down (range 0-255). Press the confirmation key to save. Default value: 128
		5. Y-axis Speed	Adjust the Y-axis speed parameter up or down (range 0-255). Press the confirmation key to save. Default: 255
		6. Y-axis Travel	Adjust the Y-axis travel parameter up or down (range 0-255). Press the confirmation key to save. Default: 255
		7. Color Wheel Calibration	Adjust the color wheel calibration parameter up or down (range 0-255). Press the confirmation key to save. Default: 128
		8. Pattern Disc Calibration	Adjust the pattern calibration parameter up or down (range 0-255). Press the confirmation key to save. Default: 128
		9. Rotation Calibration	Adjust the rotation axis calibration parameter up or down (range 0-255). Press the confirmation key to save. Default: 128
		10. Red	Adjust the red parameter up or down (range 0-255). Press the confirmation key to save. Default: 255
		11. Green	Adjust the green parameter up or down (range 0-255). Press the

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			confirmation key to save. Default: 255
		12. Blue	Adjust the blue parameter up or down (range 0-255). Press the confirmation key to save. Default: 255
		13. White	Adjust the white parameter up or down (range 0-255), press the confirmation key to save. Default is 255.
		14. Beam	Adjust beam parameters up or down (range 0-255). Press the confirmation key to save. Default: 255
		15. Logo	Use the up/down keys to select 000 or 002. Press the confirmation key to save. Default: 001 (product logo).

III. Master/Slave Control

When connecting two or more identical fixtures via DMX 3-pin cables, assign any address code between 001 and 512 to all fixtures. Designate one fixture as the master, with the others as slaves. All slave displays will remain steady. When adjusting fade, pulse, jump, sound control, or auto-run effects on the master, all slaves will synchronize these effects.

Special Notes: 1. Only one master unit can be set per group of fixtures. If multiple master units exist, all fixtures will flash erratically and unsynchronized.

2. Master/slave configuration only takes effect when the DMX512 console is turned off.

IV. DMX512 Control

After setting all fixture addresses, connect all fixtures in parallel to the DMX512 console using a three-pin DMX cable. When the address indicator stops flashing, it indicates the DMX512 console signal has been transmitted to the fixtures. Control relevant functions using the DMX512 console according to the channel specifications.

CH64 Channel Specifications:

Channel 64	Function	DMX Value	Description
1	X-axis	0-255	Horizontal 0~540 degrees
2	X-axis fine adjustment	0-255	Horizontal Fine Adjustment
3	Y-axis	0-255	Vertical 0~180 degrees
4	Y-axis fine adjustment	0-255	Vertical fine adjustment
5	X/Y Axis Speed	0-255	Fast to slow
6	Overall Dimming	0-255	Dark to Light
7	Beam Flicker	0-4	No function
		5-255	Strobe speed from slow to fast (0.5Hz~25Hz)
8	Beam: White light	0-255	From dark to bright
9	Beam Color Wheel	0-15	White light
		16-31	Red
		32-47	Green
		48-63	Blue
		64-79	Purple
		80-95	Amber

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		96-111	Cyan
		112-127	Yellow
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
10	Beam Pattern Disc	0-15	White light
		16-31	Pattern 1
		32-47	Pattern 2
		48-63	Pattern 3
		64-79	Pattern 4
		80-95	Pattern 5
		96-111	Pattern 6
		112-127	Pattern 7
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
11	Dye rotation	0-59	Sliding 0~360 degrees
		60-119	Rotate clockwise, gradually accelerating
		120-179	Counterclockwise rotation, from slow to fast
		180-255	Rotate back and forth, gradually increasing speed
12	Color change/LED strip strobe	0-4	No function
		5-255	Flashing speed from slow to fast (0.5Hz~25Hz)
13	Dye 1 Red	0-255	Dye 1 Static Dimming
14	Color 1 Green	0-255	
15	Color 1 Blue	0-255	
16	Dye 1 White	0-255	
...	...	...	...
...	...	...	...
49	Dye 10 Red	0-255	Dye 10 Static Dimming (Control color during effect playback)
50	Color 10 Green	0-255	
51	Dye 10 Blue	0-255	
52	Dye 10 White	0-255	
53	Dye Effect	0-255	1-30 Effect (See Appendix 1 for details)
54	Dyeing Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
55	Dye Effect Background Color	0-255	256-level color blending (see Appendix 2 for details)
56	Dye Effect Background Color Dimming	0-255	From dark to light
57	LED Strip Red	0-255	Static dimming for light strip (Control color during running effects)
58	LED Strip Green	0-255	
59	LED strip blue	0-255	
60	Light Strip Effects	0-255	1-64 Effects (see Appendix 1 for details)
61	Light Strip Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
62	Light Strip Effect Background Color	0-255	256-level color mixing for light strips (see Appendix 2 for details)
63	Light Strip Effect	0-255	From dark to light

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	Background Color Dimming		
64	Macro Function	0-14	No function
		15-199	Auto Lighting Mode
		200-229	Voice-activated lighting mode
		230-240	Motor reset, hold for 3 seconds to reset
		241-255	No Function

CH28 Channel Description:

Channel 28	Function	DMX Value	Description
1	X-Axis	0-255	Horizontal 0~540 degrees
2	X-axis fine adjustment	0-255	Horizontal Fine Adjustment
3	Y-axis	0-255	Vertical 0~180 degrees
4	Y-axis fine adjustment	0-255	Vertical fine adjustment
5	X/Y Axis Speed	0-255	Fast to slow
6	Overall Dimming	0-255	Dark to Light
7	Beam Flicker	0-4	No function
		5-255	Strobe speed from slow to fast (0.5Hz~25Hz)
8	Beam: White light	0-255	From dark to bright
9	Beam Color Wheel	0-15	White light
		16-31	Red
		32-47	Green
		48-63	Blue
		64-79	Purple
		80-95	Amber
		96-111	Cyan
		112-127	Yellow
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
10	Beam Pattern Disc	0-15	White light
		16-31	Pattern 1
		32-47	Pattern 2
		48-63	Pattern 3
		64-79	Pattern 4
		80-95	Pattern 5
		96-111	Pattern 6
		112-127	Pattern 7
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
11	Dye rotation	0-59	Sliding 0~360 degrees
		60-119	Rotate clockwise, gradually accelerating
		120-179	Counterclockwise rotation, from slow to fast
		180-255	Rotate back and forth, gradually increasing speed
12	Color change/LED	0-4	No function

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	strip strobe	5-255	Flashing speed from slow to fast (0.5Hz~25Hz)
13	Red staining	0-255	Dye static dimming (Control color during effect runs)
14	Dye Green	0-255	
15	Dye blue	0-255	
16	Dye white	0-255	
17	Dye Effect	0-255	1-30 Effect (See Appendix 1 for details)
18	Dyeing Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
19	Dye Effect Background Color	0-255	256-level color blending (see Appendix 2 for details)
20	Dye Effect Background Color Dimming	0-255	From dark to light
21	LED Strip Red	0-255	Static dimming for light strip (Control color during running effects)
22	LED Strip Green	0-255	
23	LED strip blue	0-255	
24	Light Strip Effect	0-255	1-64 Effects (see Appendix 1 for details)
25	Light Strip Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
26	Light Strip Effect Background Color	0-255	256-level color mixing for light strips (see Appendix 2 for details)
27	Light Strip Effect Background Color Dimming	0-255	From dark to light
28	Macro Function	0-14	No Function
		15-199	Automatic Lighting Mode
		200-229	Voice-Activated Lighting Mode
		230-240	Motor Reset, Hold for 3 Seconds to Reset
		241-255	No Function

CH22 Channel Description:

Channel 22	Function	DMX Value	Description
1	X-Axis	0-255	Horizontal 0~540 degrees
2	X-axis fine adjustment	0-255	Horizontal Fine Adjustment
3	Y-axis	0-255	Vertical 0~180 degrees
4	Y-axis fine adjustment	0-255	Vertical fine adjustment
5	X/Y Axis Speed	0-255	Fast to slow
6	Overall Dimming	0-255	Dark to Light
7	Master Strobe	0-4	No function
		5-255	Strobe speed from slow to fast (0.5Hz~25Hz)
8	Beam: White light	0-255	From dark to bright
9	Beam Color Wheel	0-15	White light
		16-31	Red
		32-47	Green

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		48-63	Blue
		64-79	Purple
		80-95	Amber
		96-111	Cyan
		112-127	Yellow
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
10	Beam Pattern Disc	0-15	White light
		16-31	Pattern 1
		32-47	Pattern 2
		48-63	Pattern 3
		64-79	Pattern 4
		80-95	Pattern 5
		96-111	Pattern 6
		112-127	Pattern 7
		128-191	Rotate clockwise, from fast to slow
		192-255	Counterclockwise rotation, from slow to fast
11	Dyeing rotation	0-59	Sliding 0~360 degrees
		60-119	Rotate clockwise, gradually accelerating
		120-179	Counterclockwise rotation, from slow to fast
		180-255	Rotate back and forth, gradually increasing speed
12	Dyeing	0-255	Dyeing Static 256-Level Color Mixing (See Appendix II for details) (Control colors when running effects)
13	Dyeing Effect	0-255	1-30 Effects (See Appendix 1 for details)
14	Dyeing Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
15	Dye Effect Background Color	0-255	256-level color blending (see Appendix 2 for details)
16	Dye Effect Background Color Dimming	0-255	From dark to light
17	Light Strip	0-255	Static LED Strip 256-level color mixing (see Appendix 2 for details) (Control color during running effects)
18	Light Strip Effects	0-255	1-64 Effects (See Appendix 1 for details)
19	Light Strip Effect Speed	0-255	Forward speed adjustment 0-127, reverse speed adjustment 128-255
20	Light Strip Effect Background Color	0-255	256-level color mixing for light strips (see Appendix 2 for details)
21	Light Strip Effect Background Color Dimming	0-255	From dark to light
22	Macro Function	0-14	No Function
		15-199	Lighting Auto Mode
		200-229	Voice-activated lighting mode
		230-240	Motor reset, hold for 3 seconds to reset
		241-255	No Function

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Appendix 1: Built-in Effect Function Descriptions

Channel Value		Channel Value	
0 - 4	No effect	0	No effect
5 - 12	Dyeing Effect 1	1 - 4	Light Strip Effect 1
13 - 20	Dyeing Effect 2	5 - 8	Light Strip Effect 2
21 - 28	Dyeing Effect 3	9 - 12	Light Strip Effect 3
29 - 36	Dyeing Effect 4	13 - 16	Light Strip Effect 4
37 - 44	Dyeing Effect 5	17 - 20	Light Strip Effect 5
45 - 52	Dyeing Effect 6	21 - 24	Light Strip Effect 6
53 - 60	Dyeing Effect 7	25 - 28	Light Strip Effect 7
61 - 68	Dyeing Effect 8	29 - 32	Light Strip Effect 8
69 - 76	Dyeing Effect 9	33 - 36	Light Strip Effect 9
77 - 84	Dyeing Effect 10	37 - 40	Light Strip Effect 10
85 - 92	Dyeing Effect 11	41 - 44	Light Strip Effect 11
93 - 100	Dyeing Effect 12	45 - 48	Light Strip Effect 12
101 - 108	Dyeing Effect 13	49 - 52	Light Strip Effect 13
109 - 116	Dyeing Effect 14	53 - 56	Light Strip Effect 14
117 - 124	Dyeing Effect 15	...	...
125 - 132	Dyeing Effect 16	197 - 200	Light Strip Effect 50
133 - 140	Dyeing Effect 17	201 - 204	Light Strip Effect 51
141 - 148	Dyeing Effect 18	205 - 208	Light Strip Effect 52
149 - 156	Dyeing Effect 19	209 - 212	Light Strip Effect 53
157 - 164	Dyeing Effect 20	213 - 216	Light Strip Effect 54
165 - 172	Dyeing Effect 21	217 - 220	Light Strip Effect 55
173 - 180	Dyeing Effect 22	221 - 224	Light Strip Effect 56
181 - 188	Dyeing Effect 23	225 - 228	Light Strip Effect 57
189 - 196	Dyeing Effect 24	229 - 232	Light Strip Effect 58
197 - 204	Dyeing Effect 25	233 - 236	Light Strip Effect 59
205 - 212	Dyeing Effect 26	237 - 240	Light Strip Effect 60
213 - 220	Dyeing Effect 27	241 - 244	Light Strip Effect 61
221 - 228	Dyeing Effect 28	245 - 248	Light Strip Effect 62
229 - 236	Dyeing Effect 29	249 - 252	Light Strip Effect 63
237 - 255	Dye Effect Loop 30	253 - 256	Light Strip Effect Cycle 64

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Appendix II:

256-Level Color Mixing Table

Value	Color
1	R
24	RG
47	G
70	GB
93	B
116	RB
139	R
162	RW
185	W
208	GW
231	BW
254	RGW
255	RGBW

LED Strip 256-Level Color Mixing Table

Value	Color
1	R
24	RG
47	G
70	GB
93	B
116	RB
139	R
162	RGB
185	GB
208	RG
231	RB
254	GB
255	RGB

V. Technical Specifications:

Technical Specifications

Operating Voltage: AC 220V/50Hz

Maximum Power: 300W

Number of LEDs: 10 x 20W RGBW light sources

Light Source Lifespan: Average 50,000 hours

Beam Diameter: 100mm

Beam Angle: 3.5 degrees

Warm white beam angle: 5.5 degrees

Dimming method: 0~100% ultra-smooth dimming

Strobe: 25 times/second

Control Methods: DMX512, Master/Slave, Standalone, and RDM (Remote Device Management)

Control Channels: 22/28/64 channels

Cooling Method: Air-cooled

Housing: Aluminum

Protection Rating: IP20

Features: Beam, Color, Strobe

Operating Temperature: -20~50° C

Appearance: Aluminum, Black

Connection Method: DMX512 Input/Output & Power Input/Output

Luminaire Dimensions: 55 × 19 × 27 cm

Weight: 7.3 kg