

2W Shake Head Animation Laser



User manual

1. Page display

Main page	First level menu	Secondary menu	Function description
DMX	1. Address setting	001-512	DMX512 address
	2. Channel mode	1. 20CH 2. 29CH	Channel mode
mode	1. Console mode		Console control
	2. Self-propelled mode		All effects go by themselves
	3. Voice-activated mode		All effects are voice-activated
	4. Manual mode		Manual control, which can be set on the Manual page
Settings	1. Language setting	1. Simplified Chinese(Ch)	Chinese
		2. English(En)	English
	2. Display and lock screen	1. Screen brightness(0-100)	The brightness of the screen varies from dim to light
		2. Screen quenching time(0-120)	0, if the indicator is steady on >0, it corresponds to 1 to 120 seconds
		3. Screen lock time(0-60)	00, the indicator is steady on >0, corresponding to 1 to 60 seconds
	3. Voice control setting	1. Acoustic sensitivity(0-100)	Voice control sensitivity from weak to strong
	4. Inverted display	1. yes	Inverted display
		2. no	Forward display
	5. factory data reset	1.yes	factory data reset
		2.no	Have no effect
Manual operation	1. Analog console	See "Channel Mode"	For details, see the corresponding channel mode
	2. resetting		Manual restart
Message	1. Version information		View version information

2.DMX CHANNEL

20 channel mode

Channel	Function	Numerical value	Description
CH1	X motor	0-255	X axis coarse adjustment
CH2		0-255	Fine-tune the X-axis
CH3	Y motor	0-255	Y axis coarse adjustment
CH4		0-255	Fine-tune the Y-axis
CH5	XY motor speed	0-255	XY velocity
CH6	Global master switch	0	Light blocking
		1-255	On
CH7	Total dimmer	0-9	Laser off

CH8	colour	10-255	Laser on
		0-69	White, red, blue, purple, cyan, yellow, green, 10 values 1 color
		70-79	Overall color change
		80-86	Original color
		87-93	multicolor
		94-109	2 Divide colors, 1 color for every 4 values, a total of 4 colors
		110-129	3 Divided colors, 1 color for every 4 values, a total of 5 colors
		130-145	4 Divided colors, every 4 values 1 color, a total of 4 colors
		146-161	8 Segment colors, 1 color for every 4 values, a total of 4 colors
		162-209	16 Sectional colors, 1 color for every 4 values, a total of 12 colors
CH9	Color flow velocity	210-255	32 segmented colors, 1 color for every 4 values, a total of 12 colors
		0-9	Color quiescence
		10-127	The color is flowing forward, from slow to fast
CH10	Pattern selection	128-255	Color reverse flow, speed from fast to slow
		0-255	1 graph for every 5 values
		0-255	There is one group for every 64 values
CH11	Graphic grouping	0-255	CH1-CH5 Manual control
		0-1	Built-in dynamic effects, CH7 controls speed and color
		2-244	All effects are random, and CH7 controls speed and color
		245-250	All effects are voice-controlled randomly
CH12	Self-propelled velocity with Acoustic sensitivity	251-255	Speed from slow to fast, color built-in program fixed
		0-127	Speed from slow to fast, color console control
		128-255	Speed from slow to fast, color console control
CH13	Animation effect speed	0-255	Total dimming, brightness from dark to light
CH14	LED Total dimmer	0-255	R dimming, brightness from dark to light
CH15	R dimming	0-255	G Dimming, brightness from dark to bright
CH16	G dimming	0-255	B Dimming, brightness from dark to bright
CH17	B dimming	0-255	Stroboscopic speed from slow to fast
CH18	stroboscopic	0-255	LED self-walking function
CH19	LED function	0-255	LED self-walking speed
CH20	LED speed	0-255	

29 channel mode

Channel	Function	Numerical value	Description
CH1	X motor	0-255	X axis coarse adjustment
CH2		0-255	Fine-tune the X-axis
CH3	Y motor	0-255	Y axis coarse adjustment
CH4		0-255	Fine-tune the Y-axis
CH5	XY motor speed	0-255	XY velocity
CH6	Global master switch	0-9	Light blocking
		10-255	On
CH7	Total dimmer	0-9	Laser off
		10-255	Laser on
CH8	colour	0-69	White, red, blue, purple, cyan, yellow, green, 10 values 1 color
		70-79	Overall color change
		80-86	Original color
		87-93	multicolor

		94-109	2 Divide colors, 1 color for every 4 values, a total of 4 colors
		110-129	3 Divided colors, 1 color for every 4 values, a total of 5 colors
		130-145	4 Divided colors, every 4 values 1 color, a total of 4 colors
		146-161	8 Segment colors, 1 color for every 4 values, a total of 4 colors
		162-209	16 Sectional colors, 1 color for every 4 values, a total of 12 colors
		210-255	32 segmented colors, 1 color for every 4 values, a total of 12 colors
CH9	Color flow velocity	0-9	Color quiescence
		10-127	The color is flowing forward, from slow to fast
		128-255	Color reverse flow, speed from fast to slow
CH10	Pattern selection	0-255	1 graph for every 5 values
CH11	Graphic grouping	0-255	There is one group for every 64 values
CH12	Animation self-walking effect	0-1	CH1-CH14 Manual control
		2-244	Built-in dynamic effects, CH16 controls speed and color
		245-250	All effects are random, CH16 controls speed and color
		251-255	All effects are voice-controlled randomly
CH13	Animation effect speed	0-127	Speed from slow to fast, color built-in program fixed
		128-255	Speed from slow to fast, color console control
CH14	Graph global size	0-255	Pattern from large to small manual selection
CH15	Pattern scaling	0-15	Pattern manual from large to small
		16-55	From small to large, the larger the value, the faster the speed
		56-95	Automatically from large to small, the larger the value, the faster the speed
		95-135	Automatic scaling, the larger the value, the faster the speed
		136-175	2 points irregular scaling, the larger the value, the faster the speed
		176-215	3 points irregular scaling, the larger the value, the faster the speed
		216-255	4 points irregular scaling, the larger the value, the faster the speed
CH16	Z-axis center rotation	0-127	Manual rotation 0-359 degrees
		128-191	Rotate clockwise from slow to fast
		192-255	Rotate counterclockwise, slow to fast
CH17	Flip vertically around the X-axis	0-127	Manually flip 0-359 degrees
		128-255	Automatic turning speed from slow to fast
CH18	Flip horizontally around the Y-axis	0-127	Manually flip 0-359 degrees
		128-255	Automatic turning speed from slow to fast
CH19	Horizontal movement	0-127	Manual horizontal movement
		128-191	Moving horizontally in the positive direction, from slow to fast
		192-255	Move horizontally in the opposite direction, from slow to fast
CH20	Vertical movement	0-127	Manual vertical movement
		128-191	Moving vertically in the positive direction, from slow to fast
		192-255	Move vertically in the opposite direction, from slow to fast
CH21	X wave	0-9	waveless
		10-255	Wave and amplitude control
CH22	Pattern drawing	0-1	unshaded
		2-63	Manual drawing 1

		64-127	Manual drawing 2
		128-153	Auto indraw
		154-179	autodraw
		180-205	Auto fade (increase before decrease - reverse)
		206-255	Auto fade (increase before decrease - same direction)
CH23	LED total dimming	0-255	Total dimming, brightness from dark to light
CH24	R dimmer	0-255	R dimming, brightness from dark to light
CH25	G dimmer	0-255	G dimming, brightness from dark to light
CH26	B dimmer	0-255	B dimming, brightness from dark to light
CH27	stroboscopic	0-255	Stroboscopic speed from slow to fast
CH28	LED function	0-255	LED self-walking function
CH29	LED Speed	0-255	LED self-walking speed

3. Factory setup

1. In Settings, press and hold ENTER. The password page is displayed.

2. Enter 88888888 and select OK to go to the setting page.

3. Galvanometer Settings

X fine adjustment: small adjustment of horizontal position;

Y fine adjustment: small adjustment of vertical position;

X range: control horizontal direction range 30-100, corresponding voltage range $\pm 3V \sim \pm 10V$;

Y range: Control vertical direction range 30-100, corresponding voltage range $\pm 3V \sim \pm 10V$;

X reverse: horizontal signal reverse, that is, horizontal mirror;

Y reverse: vertical signal reverse, that is, vertical mirror;

XY exchange: Exchange vertical and horizontal signals, equivalent to the exchange of XY signal lines.

Fault protection:

4. Scan Settings

Graph size: 25-100, only the proportion of the graph to the whole range is changed, do not change the scanning range;

Scanning speed: 15K

endpoint delay: 0-12, the larger the value, the higher the endpoint brightness, the smaller the graphics distortion, but the lower the frame rate;

5. Restore Factory Settings

Only the advanced Settings are restored.