20W RGB Animation Laser Light Manual

◆**Notice**

Do not exposure the human eye direct to laser beam.

◆**Parameter：**

Laser color: 20W RGB

Light source matching power: Red:6W@638nm, Green:6W@520nm, Blue:8W@450nm

Power supply voltage: 110-250V;50/60 Hz

Power consumption：250W

Divergence angle: ＜ 1.5mrad

Modulation mode: Analog modulation/TTL modulation

Beam angle: Max60 °

Galvo speed: 40K

Laser show: Text/Pattern/Animation/Beam/LOGO/

Heat dissipation mode: Air cooling
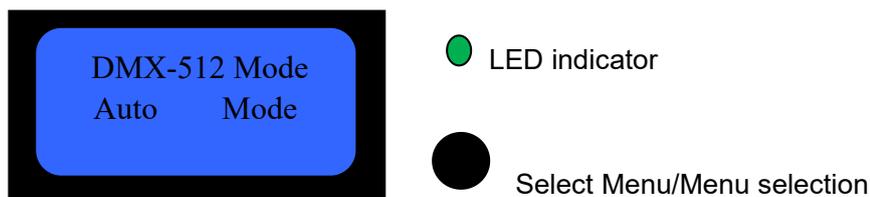
Work Environment: -30°C --45°C

Lens reflectivity: ＞ 99%

Control options: ILDA standard/Voice control/Self-propelled/DMX512/Master slave

Applicable for Disco, Clubs, KTV, Pub, Bar, Family party, etc.

Gross weight: 18kg

● **The LCD display panel is shown in the figure below:**

DMX-512 Mode
Auto   Mode

◯ LED indicator

● Select Menu/Menu selection

1. Description of LED indicator status.

Laser Key RG: Slow laser lock status red and green slow flash

Safety Protected R: ON G: OFF Closed light protection status red

DMX And Slave Mode RG: Fast DMX, Red And Green Flash In Slave Mode

Auto Mode R: OFF G: Slow Auto Mode Green Slow Flash

Music Mode, R: Fast G: ON voice mode, red flash + green

ILDA Mode R: OFF G: Fast ILda Interface Mode Green Flash

2. Select Menu/Menu selection.

Select the required function menu by rotating left and right. When the menu is high, it is selected. Press OK/Return to select the function.

● **LCD Chinese/English menu functions are shown in the following table:**

Level 1 menu	Secondary menu	Third-level menu
1、Function Mode Functional mode	1. DMX-512 Mode/DMX-512 Mode 2. Auto Mode/Self-propelled Mode 3. Music Mode/Voice Mode 4. ILDA Mode/ILDA Mode	
2、Show Listing Program list	Choose List/Select List All The List/All List001	
3、Play Show Play the program	Choose Show/Choose Show All The Show/All The Show 001	
4、Play Setup Playback settings	Play Setup/Playback Setup 1. Play Speed/playback speed 2. Play Mode/Play Mode	1. Play Speed/playback speed 50% --- 2. Loop Play/Loop Play Random Play/Random Play
5、Address Setup Address code setting	Address Setup/Address code 001	
6、Channel Setup Channel settings	Normal Mode Expert Mode	
7、Laser Setup Laser light settings	Laser Setup laser light setup 1. Scanner scanning speed 40 KPPS 2. Color Color setting RGB 3. Laser Analog 4. Invert Inversion Setting Normal 5. Image Size Size setting X Y 6. Position setting X Y	1. Scan Rate/Scan Speed 40KPPS --- 2. Color Setup Single/Single color RGY RBP GBC RGB WYPC --- 3. Laser Type/laser settings TTL/TTL modulation Analog/Analog Modulation --- 4. Normal/Normal XY Invert X/invert X Invert Y/invert Y Invert XY/invert XY --- 5. Image Size/Size Settings Size X/Size X Size Y/Size Y --- 6. Position Setup Position X/position X Position Y/position Y
8、General Setup General Settings	General Setup 1. Reset Default 2. Safety Protected/Safety Protection Light Closure 3. Master Setup/Host Setup 4. Back Light/backlight setting 5. Language/language settings	1. Reset Default Yes/Yes No/No --- 2. Safety Protected/Safety Protection Light Closure Turn ON

6. Display Setup 7. About System		Turn OFF/Close
		3. Master Setup/Host Setup Turn ON Turn OFF/Close
		4. Back Light/backlight setting Normally ON Delay 15S OFF/delay 15s light closing
		5. Language/language settings Chinese/Chinese English/English
		6. Display Setup Rotate 180deg/Rotate 180 degree Normal Display/Normal
		7. Laser System2.9/Laser System2.9 Software/Software version Version 1.0/Ver1.0 YM:2020030601

● **DMX-512 channel description:**

1、STD/common mode: 10CH

Passageway		Channel value	Control content
CH1	Switch the light on and off	0	Turn off the light
		1～255	Lights on 1-100%
CH2	Strobe	1～255	Strobe speed selection
CH3	Pattern size	0～255	Pattern selection from large to small
CH4	Horizontal position	0～255	For horizontal position selection, the value 128 is the middle position, and it is valid only when CH3 is 1-255.
CH5	Vertical position	0～255	Vertical position selection, the value of 128 is the middle position, and it is valid only when CH3 is 1-255.
CH6	Pattern file	0～255	Select a pattern file from the pattern library films
CH7	Color	0~63	Fixed color selection
		64～95	Fixed Color/Color Change Effect Speed Selection
		96～127	Color change effect speed selection
		128～159	Color change effect speed selection/flow effect speed selection
		160～191	Flow effect speed selection
		192～223	Flow effect speed selection
		224～255	Gradient Effect Speed Selection
CH8	Line scanning speed	0～127	Line scanning speed selection
	Spot scanning speed	128～255	Selection of spot scanning speed
CH9	A pattern library and an effect library	0～255	Select a pattern library and an effect library for every 8 values
CH10	Trigger automatically	0～26	Default self-running speed
		27～127	Select self-walking speed

	Voice activated trigger	128～255	Select the voice sensitivity

2、PRO/Professional Mode: 18CH

	Passageway	Channel value	Control content
CH1	Switch the light on and off	0	Turn off the light
		1～255	Lights on 1-100%
CH2	Strobe	1～255	Strobe speed selection
CH3	Pattern size	0～255	Pattern selection from large to small
CH4	Horizontal position	0～255	For horizontal position selection, the value 128 is the middle position, and it is valid only when CH3 is 1-255.
CH5	Vertical position	0～255	Vertical position selection, the value of 128 is the middle position, and it is valid only when CH3 is 1-255.
CH6	Pattern file	0～255	Select a pattern file from the pattern library films
CH7	Color	0~63	Fixed color selection
		64～95	Fixed Color/Color Change Effect Speed Selection
		96～127	Color change effect speed selection
		128～159	Color change effect speed selection/flow effect speed selection
		160～191	Flow effect speed selection
		192～223	Flow effect speed selection
		224～255	Gradient Effect Speed Selection
CH8	Line scanning speed	0～127	Line scanning speed selection
	Spot scanning speed	128～255	Selection of spot scanning speed
CH9	A pattern library and an effect library	0～255	Select a pattern library and an effect library for every 8 values
CH10	Trigger automatically	0～26	Default self-running speed
		27～127	Select self-walking speed
	Voice activated trigger	128～255	Select the voice sensitivity
CH11	Rotate Z	1～127	Rotate Z angle selection
		128～255	Rotation Z speed selection
CH12	Rotate X	1～127	Rotate X angle selection
		128～255	Rotate X speed selection
CH13	Rotate Y	1～127	Rotate Y angle selection
		128～255	Rotation Y speed selection
CH14	Move horizontally	1～127	Horizontal shift position selection
		128～255	Horizontal movement speed selection
CH15	Vertical movement	1～127	Vertical movement position selection
		128～255	Vertical movement speed selection
CH16	Zoom	1～127	Zoom size selection
		128～255	Zoom speed selection
CH17	Gradual drawing	1～255	Gradient Speed Selection
CH18	X wave	1～127	X Wave speed selection
	Y wave	128～255	Y Wave speed selection