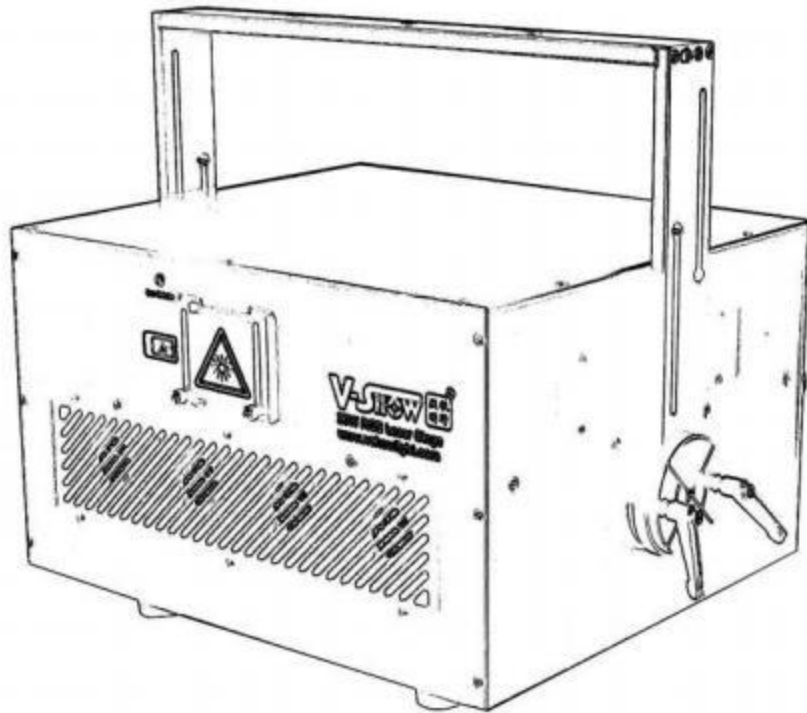


# L2003

## User Manual



Dear customers:

Thank you for choosing our laser series products. To get better experience, please read this manual carefully before using it.

This product has been strict controlled from design to production, and conforms to the use requirements of international standard agreements. Sufficient aging tests will be carried out on the product before leaving the factory to ensure your use experience.

1) We will continue to focus on products' research, development and technical improvement to create better experience effects, so we reserve the right to make changes to the products, not do inform, the manual just for your reference, the final based on the products you received.

2)The content of this manual is limited, just for your reference. We're not undertake any responsibility for its accuracy or omissions.

## 1. Product parameters

Product name	20W RGB laser projector
Product model	Sup-20
Power/Wavelength	R: 5500mw 638nm G: 7000mw 520nm B: 8500mw 455nm
Divergence	<1.3mrad
Control mode	ILDA,DMX512,AUTO,SOUND,MASTER
Laser source	Semiconductor diode
modulation mode	Analog modulation
modulation frequency	100HZ
Scanner system	DT50BB 30k $\pm 30^\circ$
Voltage	AC 100-240V, 50/60HZ
Power	<320W
Cooling way	Fan cooling +TEC
Working temperature	-10°C-45°C
Size	435(L)*320(w)*252(H) mm
Weight	30KG
Occasion	KTV, CLUB, banquet hall, stage

## 2. Function description



1	LCD display	5	Power connection	9	Interlock
2	ILDA IN/OUT	6	Fuse	10	
3	Safety O-ring	7	ON/OFF		
4	DMX IN/OUT	8	Key switch		

### 1) Power

Connect the power cable to the device and to the mains. Make sure that your device is provided with the correct voltage.

## 2) ILDA in / ILDA out

The device can be controlled via ILDA control signal. There are an ILDA-in (ILDA input) and an ILDA-out interface.

## 3) Fuse

If the fuse should blow, please change it by a new one. If the problems recurs, please contact factory after service department.

## 4) Key Switch

Please plug the key to the switch and turn it on. The laser device only runs when the key is inserted and switched on.

Prevent misuse! Unplug the key when the laser is unattended to prevent misuse of the system.

## 5) Interlock

Remote control interface, used for field remote control wiring, to connect the remote adapter to the remote control. The laser only can be operated when the remote control adapter is plugged in.

## 3. LCD Display as below



 LED indicator

 Select Menu

1、LED indicator status description:

Laser Key	RG:Slow
Safety Protected	R: ON G:OFF
DMX And Slave Mode	RG:Fast
Auto Mode	R: OFF G:Slow
Music Mode,	R: Fast G:ON
ILDA Mode	R: OFF G:Fast

## 2、 Select Menu

Select the desired function menu by rotating left and right, the menu height is selected, and press OK/return to the selected function.

## 2、 LCD menu function as below table:

Mainmenu	Submenu	3rd Submenu
1、 DMX-512 Mode	DMX-512 Mode Address 001 Channel Expert	Address Setup 001
		Channel Setup Normal Mode Expert Mode
2、 Auto Mode	Auto Mode Effect Mix AutoSpeed 50%	Auto Effect Mix Show Lines Show Beams Show
		Auto Speed 50%
3、 Music Mode	Music Mode Effect Mix MusicSpeed 50%	Music Effect Mix Show Lines Show Beams Show
		Music Speed 50%

<p>4、Laser Light</p>	<p>Laser Light Scanner 20KPPS Color RGB Laser Analog Invert Normal Image Size X Y Position X Y</p>	<p>Scan Rate 20KPPS</p> <hr/> <p>Color Setup Single RGY RBP GBC RGB WYPC</p> <hr/> <p>Laser Type TTL Analog</p> <hr/> <p>Normal invert X invert Y invert XY</p> <hr/> <p>Image Size Size X Size Y</p> <hr/> <p>Position Setup position X position Y</p>
<p>5、Settings</p>	<p>Settings Reset Default SafetyProtected Master Setup Back Light Language Display Setup About System</p>	<p>Reset Default Yes No</p> <hr/> <p>SafetyProtected Turn ON Turn OFF</p> <hr/> <p>Master Setup Turn ON Turn OFF</p> <hr/> <p>Back Light Normally ON Delay 15S OFF</p> <hr/> <p>Language Chinese English</p>

		Display Setup Rotate 180deg NormalDisplay
		LaserSystem2.9 Software Version 1.0 YM:20190301001

### 3、DMX-512 Channel explain:

#### 1、Normal Mode 12CH table:

	Channel	Value	Function
CH1	Turn on/off	0	Turn off
		1~255	Turn on 1-100%
CH2	Red brightness	0~255	Red brightness 0~100%
CH3	Green brightness	0~255	Green brightness 0~100%
CH4	Blue brightness	0~255	Blue brightness 0~100%
CH5	Graphics switch	0~255	Graphics switch
CH6	Graphics size	0~255	From biggest to smallest selection
CH7	Horizontal position	1~255	Horizontal position selection
CH8	Vertical position	1~255	Vertical position selection
CH9	Color	0~63	Fixed seven color selection
		64~95	Change color effect speed selection
		96~127	
		128~159	Flowing water effect speed selection
		160~191	
		192~223	
224~255	Gradient effect speed selection		
CH10	Flash effect	1~255	Flash effect speed selection
CH11	Static pattern	0~127	Static pattern selection
	Dynamic pattern	128~255	Dynamic pattern selection
CH12	Auto mode	0~127	Auto speed selection
	Sound mode	128~255	Sound sensitivity selection



## 2、Expert Mode 21CH table:

Channel		Value	Function
CH1	Turn on/off	0	Turn off
		1~255	Turn on 1-100%
CH2	Red brightness	0~255	Red brightness 0~100%
CH3	Green brightness	0~255	Green brightness 0~100%
CH4	Blue brightness	0~255	Blue brightness 0~100%
CH5	Graphics switch	0~255	Graphics switch
CH6	Graphics size	0~255	From biggest to smallest selection
CH7	Horizontal position	1~255	Horizontal position selection
CH8	Vertical position	1~255	Vertical position selection
CH9	Color	0~63	Fixed seven color selection
		64~95	Change color effect speed selection
		96~127	
		128~159	Flowing water effect speed selection
		160~191	
		192~223	
224~255	Gradient effect speed selection		
CH10	Flash effect	1~255	Flash effect speed selection
CH11	Static pattern	0~127	Static pattern selection
	Dynamic pattern	128~255	Dynamic pattern selection
CH12	Auto mode	0~127	Auto speed selection
	Sound mode	128~255	Sound sensitivity selection
CH13	Rotation	1~255	Rotation speed selection
CH14	Flip horizontal	1~255	Flip horizontal speed selection

CH15	Flip vertical	1~255	Flip vertical speed selection
CH16	Horizontal movement	1~255	Horizontal movement speed selection
CH17	Vertical movement	1~255	Vertical movement speed selection
CH18	Zoom	1~255	Zoom speed selection
CH19	Gradient	1~255	Gradient speed selection
CH20	Line scanning speed	0~127	Line scanning speed selection
	Beam scanning speed	128~255	Beam scanning speed selection
CH21	Horizontal wave	1~127	Wave speed selection
	Vertical wave	128~255	

## 4. Warning

1. Please use this device only according to these instructions.
2. Do not use the device if there are any visible damages on housing, connector panels, power supplies or power cords.
3. Never look directly into the light source of a laser projector. Danger of damage to the eyes or even blindness in extreme circumstances!
4. Do not operate the device at high humidity or in the rain or in dusty environments.
5. Protect device against dripping or splashing water. Do not place any liquid filled containers near to this device.

Any warranty claims are void if the warranty label is removed or tampered with in any way.