

# Product Warranty card

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# Warranty Terms

- 1、 The products sold come with a two-year free warranty and lifetime repair service. That is, within two years, the quality problems of the product itself will be repaired free of charge, After two years, a certain cost is charged for product repair or replacement parts.
- 2、 The software included in the products sold can enjoy free upgrades and functional improvement services in the later stage.
- 3、 Provide corresponding technical support and cooperation for the products sold, and ensure a 24-hour technical service hotline.
- 4、 The following product damage or other reasons caused by non-company factors are not included in the company's free repair:
  - (1) . Incorrect installation
  - (2) . Voltage mismatch
  - (3) . Improper use caused by failure to operate in accordance with the instruction manual
  - (4) . Repairs or alterations not authorized by the Company
  - (5) . The machine lacks necessary maintenance
  - (6) . Failure to provide the proper working environment
  - (7) . Product damage caused by secondary transportation by the user
  - (8) . System failure caused by software or viruses other than the Company
  - (9) . Force majeure factors such as natural disasters (lightning strikes, earthquakes, tsunamis, floods, etc.) and unexpected circumstances
  - (10) . The product power supply must be effectively grounded

The above guarantee has the same legal effect for each user. Due to country or region changes, other rights may only apply to specific customers.

# A1 Series RGB laser light



Please read this manual carefully  
and carefully before use

## USE CAUTION




- CHECK THAT THE LOCAL POWER SUPPLY MEETS THE PRODUCT INPUT VOLTAGE REQUIREMENTS.
- WHETHER THERE ARE LEAKAGE PROTECTORS, OVERCURRENT PROTECTORS, ETC. ON SITE WITH LOAD REQUIREMENTS.
- DO NOT USE A POWER CORD WITH DAMAGED INSULATION AND DO NOT LAP THE POWER CORD TO OTHER WIRES.
- WHEN INSTALLING EQUIPMENT, THE FIXING SCREWS MUST BE STRONG, EQUIPPED WITH SAFETY CABLES, AND CHECKED REGULARLY.
- THE TEMPERATURE OF THE LIGHT OUTLET OF THE DEVICE IS TOO HIGH, PLEASE DO NOT TOUCH IT CLOSE TO AVOID SCALDING.
- DURING USE, IF THE EQUIPMENT IS ABNORMAL, IT SHOULD BE STOPPED IN TIME TO PREVENT OTHER FAILURES.
- PLEASE BE INSTALLED AND DEBUGGED BY PROFESSIONALS, NON-PROFESSIONALS ARE STRICTLY FORBIDDEN TO DISASSEMBLE THE LAMPS PRIVATELY.
- DO NOT LOOK DIRECTLY AT THE LAMP WITH THE NAKED EYE, IT MAY CAUSE DAMAGE TO THE EYES.
- DO NOT CHANGE THE INTERNAL CIRCUIT STRUCTURE OF THE LAMP WITHOUT PERMISSION, WHICH MAY CAUSE THE LAMP TO SHORT CIRCUIT OR BURN OUT.
- WHEN NOT USING THE LAMP OR CLEANING THE LAMP, CUT OFF THE POWER.

# DIRECTORY

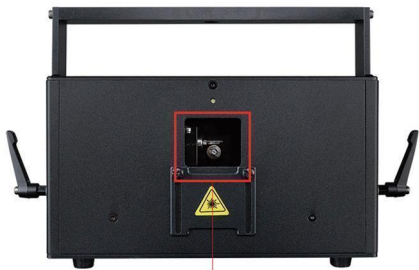
- 1.1) .....Product technical parameters
- 1.2) .....Device diagram
- 1.3) .....Connection diagram
- 1.4) .....Display instructions
- 1.5) .....Channel mode
- 1.6) .....Installation instructions
- 1.7) .....Maintenance, upkeeping, calibration

# DEVICE PARAMETERS

## Product technical parameters

Voltage	AC110 <input type="checkbox"/> 220V <input type="checkbox"/> 90-240V <input type="checkbox"/> 50 <input type="checkbox"/> 60HZ <input type="checkbox"/>			
lamp power	1W <input type="checkbox"/>	2W <input type="checkbox"/>	3W <input type="checkbox"/>	5W <input type="checkbox"/>
Laser power	Red: 300mw Green:100mw Blue: 600mw	Red: 500mw Green: 500mw Blue: 1000mw	Red: 500mw Green: 500mw Blue: 1800mw	Red: 1000mw Green: 1000mw Blue: 3000mw
Power consumption	150W <input type="checkbox"/>	150W <input type="checkbox"/>	150W <input type="checkbox"/>	210W <input type="checkbox"/>
wavelength	Red: 638nm		Green:525nm	Blue:450nm
Laser source	Diode(NICHIA)			
Colors	RGB full color			
External Modulation	100K Analog <input type="checkbox"/> TTL <input type="checkbox"/>			
DMX Channel	10CH/34CH			
Scanner system	20kpps <input type="checkbox"/>	25kpps <input checked="" type="checkbox"/>	30kpps <input type="checkbox"/>	40kpps <input type="checkbox"/> 50kpps <input type="checkbox"/>
Control mode	Music <input type="checkbox"/>	Auto <input type="checkbox"/>	Master-slave <input type="checkbox"/>	DMX-512 <input type="checkbox"/> ILDA Control <input type="checkbox"/>
Cooling system	fan			
Environment	Indoor			
Temperature	-20°C~45°C			
Net Weight	4.75KG			
Dimension Size	25.6*15.7*19.5cm			
Package	Carton(1 in 1) <input type="checkbox"/>	FlightCase(Without wheels) <input type="checkbox"/>		FlightCase(Without wheels) <input type="checkbox"/>
Package dimension	40*25*26cm	42*31.5*21cm		42*31.5*25cm
Package weight	5.6KG	9.4KG		10KG
Package picture				

# SCHEMATIC OF THE DEVICE



### HOOD ON THE FRONT OF THE DEVICE

TO START THE DEVICE, MAKE SURE THE FRONT VISOR IS TURNED ON  
DO NOT POINT YOUR PHONE CAMERA DIRECTLY IN FRONT OF THE EXIT  
SO AS NOT TO CAUSE THE CAMERA TO BURN OUT!

**THE TEMPERATURE OF THE LIGHT OUTLET IS HIGH  
DO NOT TOUCH IT CLOSE TO AVOID SCALDING**



### THE HANDLE CAN BE ROTATED 360 DEGREES

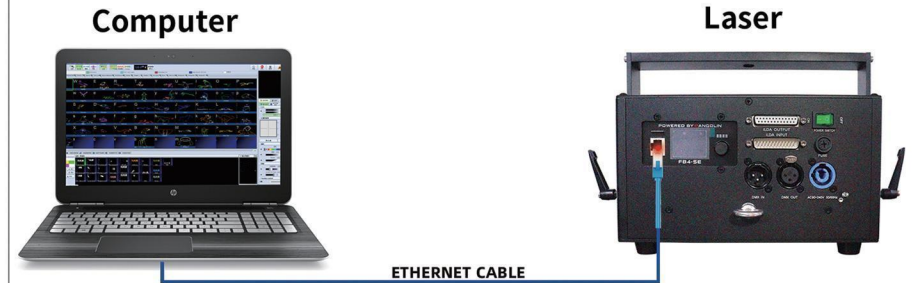
THIS DEVICE ALLOWS 360-DEGREE ADJUSTMENT OF THE HANDLE DIRECTION  
EASY INSTALLATION (THE SIZE OF THE DEVICE IS MEASURED MANUALLY, THERE ARE 2-3  
CM ERROR, THANK YOU FOR YOUR UNDERSTANDING!)

# CONTROL BOX CONNECTION

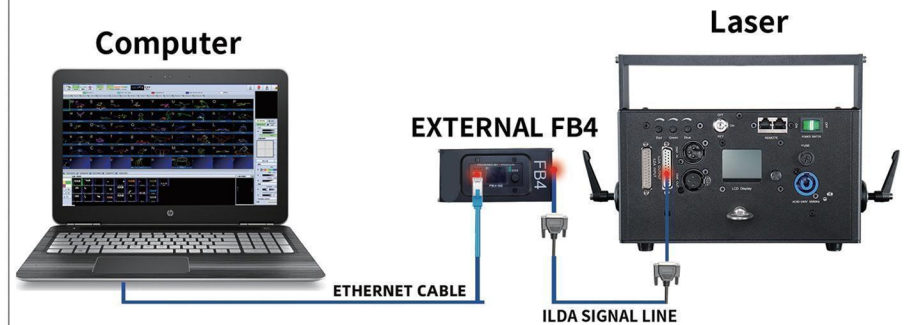
(No control box, please ignore)

- NOTICES: 1. IF THE LAPTOP DOES NOT HAVE A CRYSTAL HEAD INTERFACE, YOU NEED TO ADD A USB TO CRYSTAL HEAD ADAPTER
2. IF THERE ARE MULTIPLE LASER LIGHT DEVICES, YOU NEED TO ADD A SWITCH
3. IF THE DISTANCE IS MORE THAN 80 METERS, USE OPTICAL FIBER CABLE

## CONNECTION DIAGRAM (BUILT-IN VERSION FB4)

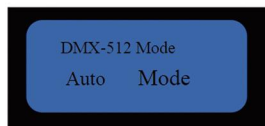


## CONNECTION DIAGRAM (EXTERNAL VERSION FB4)



## LCD Menu and function introduction

### LCD Menu Function



- LED
- Select Menu

#### 1、LED Pilot manual

Laser Key           RG:Slow  
 SafetyProtected   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、Slect Menu

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

### LCD English Menu Function list

Main Menu	Secondary menu	Third level menu
1、Function Mode	1、DMX-512 Mode 2、Auto Mode 3、Music Mode 4、ILDA Mode	
2、Show Listiong	Choose List All The List	
3、Play Show	Choose Show/All The Show	
4、Play Setup	Play Setup 1、Play Speed 2、Play Mode	1、Play Speed
		2、Loop Play Random Play
5、Address Setup	Address Setup	
6、Channe 1 Setup	Normal Mode Expert Mode	

7、Laser Setup	1、Scanner 20KPPS	1、Scan Rate 20KPPS
	2、Color RGB	2、Color Setup Single RGY RBP GBC RGB WYPC
	3、Laser Analog	3、Laser Type TTL Analog
	4、Invert Normal	4、Normal invert X invert Y invert XY
	5、Image Size XY	5、Image Size Size X Size Y
	6、Position XY	6、Position Setup Position X Position Y
8、General Setup	1、Reset Default	1、Reset Default Yes No
	2、Safety Protected	2、Safety Protected Turn ON Turn OFF
	3、Master Setup	3、Master Setup Turn ON Turn OFF
	4、Back Light	4、Back Light Normally ON Delay 15S OFF
	5、Language	5、Language Chinese English
	5、Display Setup	6、Display Setup Rotate 180 deg Norma 1D is play
	5、About System	7、Laser System 2.9 Software Version 1.0/Ver 1.0 YM:2020030601

PRO mode 34CH

CH	Function	Value	Control content
CH1	Dimmer	0	OFF
		1~255	Dimmer 1-100%
CH2	Strobe	1~255	Strobe speed selection
CH3	Pattern size	0~255	Choose patterns from big to small
CH4	Horizontal position	0~255	Horizontal position selection ,the value of 128 is the middle position only valid when CH3 is 1-255
CH5	Vertical position	0~255	Vertical position selection,the value of 128 is the middle position only valid when CH3 is 1-255
CH6	Pattern file	0~255	Select a pattern file from the pattern library file
CH7	Color	0~63	Fixed color selection
		64~95	Fixed color/color changing effect speed selection
		96~127	Color changing effect speed selection
		128~159	Color-changing effect speed selection/flowing effect speed selection
		160~191	Flow effect speed selection
		192~223	Flow effect speed selection
		224~255	Gradual drawing effect speed selection
CH8	Line scan speed	0~127	Line scan speed selection
	Point scanning speed	128~255	Point scanning speed selection
CH9	Pattern library and effect library	0~255	Choose a pattern library and effect library for every 8 values
CH10	Auto trigger	0~26	Default self-propelled speed
		27~127	Choose self-propelled speed
	Vpice trigger	128~255	Select voice control 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	Rotation X speed selection
CH13	Rotate Y	1~127	Rotate Y angle selection
		128~255	Rotation Y speed selection
CH14	Move	1~127	Horizontal shify position selection
	Horizontally	128~255	Horizontal movemeny speed selection
CH15	Move vertically	1~127	Vertical movemen position selection
		128~255	Vertical movement speed selection
CH16	Zoom	1~127	Zoom size selection
		128~255	Zoom speed selection
CH17	Gradually painted	1~255	Gradual drawing speed selection
CH18	X wave	1~127	X wave speed selection
	Y wave	128~255	Y wave speed selection

CH19	Strobe	1~255	Strobe speed selection
CH20	Pattern size	0~255	Choose patterns from big to small
CH21	Horizontal position	0~255	Horizontal position selection,the value of 128 is the middle position,only valid when CH3 is 1-255
CH22	Vertical position	0~255	Vertical position selection,the value of 128 is the middle position,only valid when CH3 is 1-255
CH23	Pattern file	0~255	Select a pattern file from the pattern library file
CH24	Color	0~63	Fixed color selection
		64~95	Fixed color/color changing effect speed selection
		96~127	Color changing effect speed selection
		128~159	Color-changing effect speed selection/flow effect speed selection
		160~191	Flow effect speed selection
		192~223	Flow effect speed selection
		224~255	Gradual drawing effect speed selection
		CH25	Line scan speed
Point scanning speed	128~255		Point scanning speed selection
CH26	Pattern library and effect library	0~255	Choose a pattern library and effect library fo every 8 values
CH27	Rotate Z	1~127	Rotate Z angle selection
		128~255	Rotation Z speed selection
CH28	Rotate X	1~127	Rotate X angle selection
		128~255	Rotation X speed selection
CH29	Rotate Y	1~127	Rotate Y angle selection
		128~255	Rotation Y speed selection
CH30	Move horizontally	1~127	Horizontal shift position selection
		128~255	Horizontal movement speed selection
CH31	Move vertically	1~127	Vertical movement position selection
		128~255	Vertical movement speed selection
CH32	Zoom	1~127	Zoom size selection
		128~255	Zoom speed selection
CH33	Gradually painted	1~255	Gradual drawing speed selection
CH34	X wave	1~127	X wave speed selection
	Y wave	128~255	Y wave speed selection

DMX-512 Channel:  
Normal Mode 10CH

CH	Function	Value	Function
CH1	Dimmer	0	OFF
		1-255	Dimmer 1-100%
CH2	Strobe	1-255	Strobe speed selection
CH3	Pattern size	0-255	Choose patterns from big to small
CH4	Horizontal position	0-255	Horizontal position selection,the value of 128 is the middle position,only valid when CH3 is 1-255
CH5	Vertical position	0-255	Vertical position selection ,the value of 128 is the middle position,only valid when CH3 is 1-255
CH6	Pattern file	0-255	Select a pattern file from the pattern library file
CH7	Color	0-63	Fixed color selection
		64-95	Fixed color/color changing effect speed selection
		96-127	Color changing effect speed selection
		128-159	Color-changing effect speed selection/flowing effect speed selection
		160-191	Flow effect speed selection
		192-223	Flow effect speed selection
		224-255	Gradual drawing effect speed selection
CH8	Line scan speed	0-127	Line scan speed selection
	Point scanning speed	128-255	Point scanning speed selection
CH9	Pattern library and effect library	0-255	Choose a pattern library and effect library for every 8 values
CH10	Auto trigger	0-226	Default self-propelled speed
		7-127	Choose self-propelled speed
	Voice trigger	128-255	Select voice control sensitivity

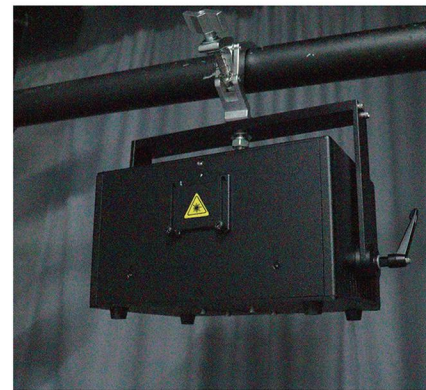
## INSTALLATION INSTRUCTIONS

### Installation matters

- 1.The iron frame for carrying laser lights on the ground must be higher than 3M **(Except for rooftops or other special areas)**
- 2.The bottom of the iron frame must be fixed, welded to the ground, or in case of soft ground, cement piles must be built
- 3.The equipment on the shelf must be protected and fixed to prevent typhoons from falling and causing unnecessary losses
- 4.After the show starts, try not to let customers get too close to the equipment and keep a certain distance to enjoy

### Installation reference style

**Sample ①**  
Hang on the truss by clamp



**Sample ②**  
Standing on top of a stand



## NOTES

### Special considerations

Electronic devices are prohibited from pointing at laser lamps for exit cameras

**Easy to burn out the camera!**

Mobile phone / Camera / Camcorder/ other photography and video products

### Burnt out sample display

#### Sample ①



#### Sample ②



#### Sample ③



## EQUIPMENT MAINTENANCE

**FRONT DUST GLASS LENSES**  
WIPE IN ONE DIRECTION WITH A COTTON SWAB AND ALCOHOL,  
AND WIPE AGAIN WITH A DRY PAPER TOWEL,  
AFTER THE SHOW, COVER THE SUNSHADE.

**THE RADIATOR IS PARTIALLY CLEAN**  
THE COMMONLY USED BLOW GUN IS AIMED AT THE HEAT DISSIPATION PART TO BLOW OFF THE DUST,  
LET THE LASER LIGHT DISSIPATE HEAT BETTER,  
EXTEND THE LIFE OF THE LIGHT SOURCE.



## COMMON FAILURES

### ● THE LASER LIGHT DOES NOT EMIT LIGHT

- ◆ CHECK THAT THE FRONT VISOR IS OPEN.
- ◆ THE SUPPLY VOLTAGE IS UNSTABLE.
- ◆ THE CONNECTING WIRE LEAKS AND THE SIGNAL CABLE FALLS OFF OR POOR CONTACT.
- ◆ IF IT IS A BUILT-IN CONTROLLER, A COMPUTER LASER LIGHT MUST BE CONNECTED TO WORK.
- ◆ WHETHER THE GB 110V □ 220V □ VOLTAGE IS CONNECTED CORRECTLY.

