

# Queen 4.0RGB ANIMATION LASER LIGHT User manual



*Please read over this manual before operating the light*

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## First、 Brief

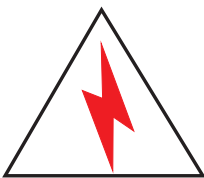
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Thank you for purchasing of our professional laser show system. We always try to develop our product with high-tech and high performance to meet your requirement and expectation.

The unit is designed strictly according to the international standard. The control way is single or master/slave in option. The manual is included the skill parameter and detail instructions etc. Please read the manual carefully before using the product.

**Note:** based on the policy of our company constantly upgrade the product improvement and contained in this manual. Data is likely to change in the future, and will not notice the alterations, the company keep in Product improvement when change the power of the relevant specification data. If you want to know the specific upgrades, please contact with sales department of the company, thank you. The publisher of this manual will not for the information in this manual is accurate is responsible for, also not due to the information the relevant consequences of any responsibility.

### ◎ SECURITY WARNINGS



Avoid electric



Green package

## Second、 Packing list

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2 - 1 We use the carton to pack normally. You may choose the fly case.

2 - 2 Opening the package

Open the case and take out the enclosed spare parts, remove the drier, take the unit and put it in a flat place to operate.

## 2 - 3 Spare parts

With of exception of this equipment, the pacing enclosed as following

<b>Package List</b>			
Projector	1pcs		
Power line	1pcs		
The manual	1pcs		

## **Third、 installation and safety instruction**

---

### 3 - 1 installation:

#### 1, Installation location

Before the installation, to ensure the stability of the installation points, can withstand the product weight at least ten times more than the bearing structure.

#### 2,Installation method

Use two professional lamp hook, M10 bolts to secure the mounting nut through the lamp comes with fixed; dispensing (or supplied) through the installation of the safety lock handle and other hanging objects. When installing the lighting to ensure stable, ban pedestrians through the installation process under the lighting. In addition, when the demolition of lighting to cut off the power supply to ensure the same security, first take the safety rope, hang down again, at the same time ensure that beneath the pedestrian safety.

### 3-2 Caution:

1, the laser beam should avoid direct or indirect fired people's eyes, and keep a distance between the lamp and combustible material at least 0.5 m.

2, Do not frequent switching of light, so as not to affect the light life, and try to avoid prolonged open, ensure that the ambient temperature does not exceed 35 °C.

**Using before pls must be check power supply link with earth wire correctly or not.**

## **Fourth、 power supply and signal connect**

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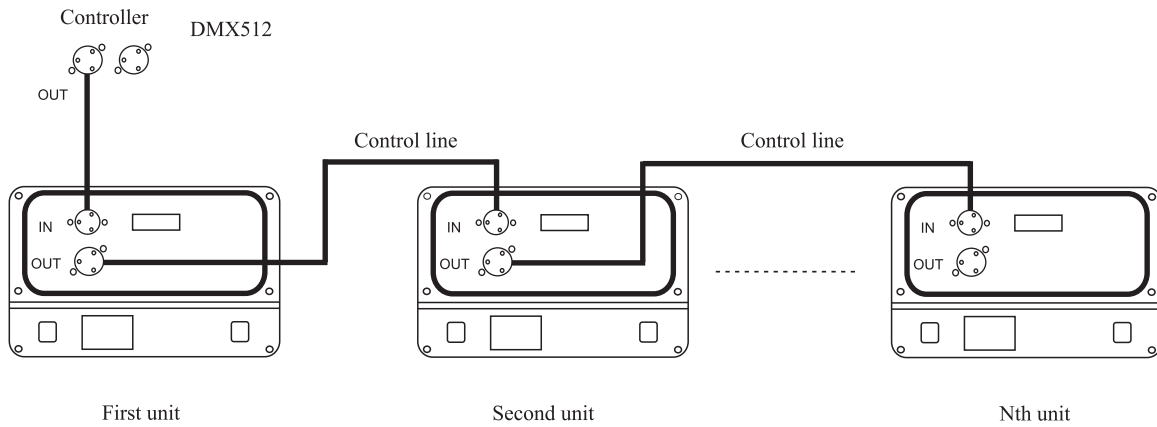
### 4 - 1 Connect the power and control

Use the professional plug to connect the laser light and power cable. Before installing the unit, please confirm whether the voltage and frequency indicated on the real panel of laser light. Voltage and frequency parameters(is matching)

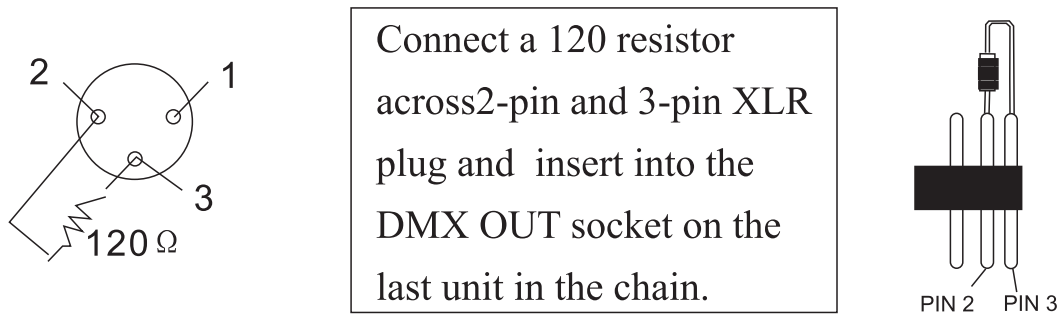
Voltage	AC100~240V		AC100~120V	AC200~240V
Opt				
Frequency	50Hz	60Hz	50~60Hz	
Opt				

### 4 - 2 Connect the signal cable

The laser light may be controlled the DMX 512 signal. Under sound and Atuo control. the master/slave can be used. The master/slave mode is lined by signal line. Connect the DMX-out of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

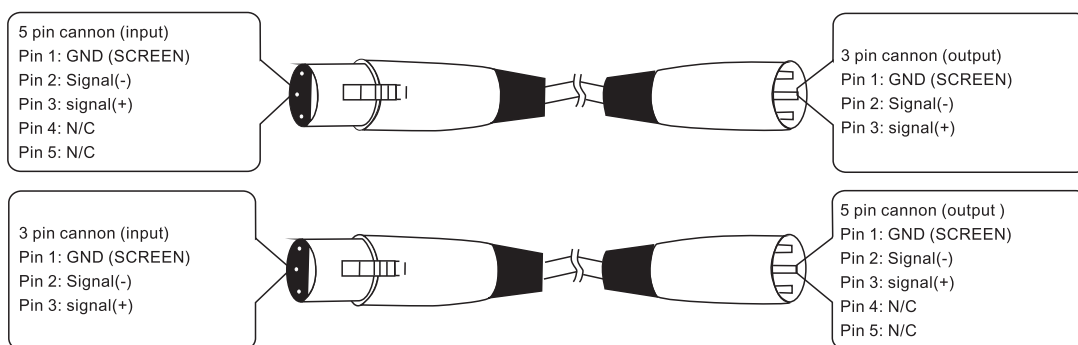


Caution: Please remember the signal output of last machine must connect the attached circle plug .The circle plug connect a 120 resistor between 2 feet and 3 feet canon plug. The signal reflects phenomena can be avoided by using circle plug during DMX 512 signal transfer. (DMX TERMINATOR CONNECTION):



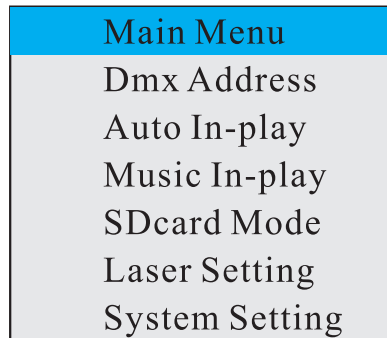
The laser light use 3 feet XLR plug, if the controller you use is 5 feet XLR plug. You must use a interchange line from 5 feet to 3 feet. See the following. The transform of 3-pin and 5-pin XLR adaptor.

### The 3pin and 5pin Canon DMX512 connector circuit



# 五 : Operating instructions

TFT display menu Settings, as following:



Use button TFT LCD display menu function, easy to use, starting up auto-loading system software.

Through UP.DOWN choose the desired function.

Through enter, back to confirm choose function, Back To Previous Menu.

The light have six control model: DMX address, auto in-play, music in-play, SDcard mode, master-slave, ILDA control mode (If computer ILDA signal input ILDA signal priority) setting as following:

Model		TFT display																					
1	DMX512	<table border="1" style="width: 100%;"> <tr> <td style="background-color: #00AEEF; color: white; text-align: center;"><b>Main Menu</b></td> <td style="background-color: #00AEEF; color: white; text-align: center;"><b>Main Menu</b></td> <td style="background-color: #00AEEF; color: white; text-align: center;"><b>DMX Address</b></td> </tr> <tr> <td style="text-align: center;">Dmx Address</td> <td style="text-align: center;">DMX Address</td> <td style="text-align: center;">001</td> </tr> <tr> <td style="text-align: center;">Auto In-play</td> <td style="text-align: center;">Auto In-play</td> <td></td> </tr> <tr> <td style="text-align: center;">Music In-play</td> <td style="text-align: center;">Music In-play</td> <td></td> </tr> <tr> <td style="text-align: center;">SDcard Mode</td> <td style="text-align: center;">SDcard Mode</td> <td></td> </tr> <tr> <td style="text-align: center;">Laser setting</td> <td style="text-align: center;">Laser setting</td> <td></td> </tr> <tr> <td style="text-align: center;">System setting</td> <td style="text-align: center;">System setting</td> <td></td> </tr> </table>	<b>Main Menu</b>	<b>Main Menu</b>	<b>DMX Address</b>	Dmx Address	DMX Address	001	Auto In-play	Auto In-play		Music In-play	Music In-play		SDcard Mode	SDcard Mode		Laser setting	Laser setting		System setting	System setting	
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TFT LCD display control panel function menu setting, as following::

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## 5-1、DMX-512 control mode:

This light of IPLAY mode have 2 kinds channel mode(at system set of next menu channel number set can choose channel mode) SD card mode is no effect of channel number set. SDPLAY just 1 channel mode, mode and instruction as following:

CH	Function	value	Description
CH1	light off	0~31	light off
	IPLAY mode	32~47	no music manual selection pattern
		48~63	no music auto effect
		64~79	music manual selection pattern
		80~95	music auto effect
	SD-PLAY mode	96~159	no music manual selection pattern
		160~175	no music auto effect
		176~239	music manual selection pattern
		240~255	music auto effect

1).IPLA13CH model follow

CH1=32~47 or 64~79 , when manual control CH3~CH13 valid ,  
CH1=48~63 or 80~95 , when automatic controlCH3~CH13 invalid ,

CH	Function	value	Description
CH1	light off	0~31	light off
	IPLAY mode	32~47	no music manual selection pattern
		48~63	
		64~79	music manual selection pattern
		80~95	
CH2	pattern group choose	0~255	each 32 value choose pattern group each 64 value choose pattern group
CH3	Pattern	0~15	light off
		16~255	each 10 value one pattern

CH4	Pattern rotating	0~127	rotating angle choose
		128~143	positive rotation speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH5	pattern horizontal rotating	0~127	horizontal rotating angle choose
		128~143	horizontal rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH6	pattern vertical rotating	0~127	vertical rotating angle choose
		128~143	vertical rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH7	pattern horizontal move	0~127	horizontal move position choose
		128~143	horizontal move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	

CH8	pattern vertical move	0~127	vertical move position choose
		128~143	vertical move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH9	pattern zoom	0~127	zoom size choose
		128~143	zoom size choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH10	wave mode (the second channel pattern mode, when use wave can be control wave moving direction.)	0~39	smaller amplitude wave speed and cycle choose
		40~79	Small amplitude wave speed and cycle choose
		80~119	middle amplitude wave speed and cycle choose
		120~159	more amplitude wave speed and cycle choose
		160~199	wide amplitude wave speed and cycle choose
		201~255	pattern wave moving speed and amplitude choose
CH11	Pattern gradually	0~127	drawing speed choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing

CH12	pattern point	0~127	drawing speed choose
		128~255	strobe
CH13	color mode	0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B
		56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
240~255	drawing effect speed choose		

2).IPLA25CH model follow

CH1=32~47 or 64~79 , when manual control CH3~CH25 valid ,  
CH1=48~63 or 80~95 , when automatic control CH3~CH25 invalid ,

CH	Function	value	Description
CH1	light off	0~31	light off
	IPLAY mode	32~47	no music manual selection pattern
		48~63	
		64~79	music manual selection pattern
		80~95	
CH2	pattern A group choose	0~255	each 32 value choose pattern group each 64 value choose pattern group
CH3	Pattern A	0~15	light off
		16~255	each 10 value one pattern

CH4	Pattern A rotating	0~127	rotating angle choose
		128~143	positive rotation speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH5	pattern A horizontal rotating	0~127	horizontal rotating angle choose
		128~143	horizontal rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH6	pattern A vertical rotating	0~127	vertical rotating angle choose
		128~143	vertical rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH7	pattern A horizontal move	0~127	horizontal move position choose
		128~143	horizontal move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	

CH8	pattern A vertical move	0~127	vertical move position choose
		128~143	vertical move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH9	pattern A zoom	0~127	zoom size choose
		128~143	zoom size choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH10	wave A mode (the second channel pattern mode, when use wave can be control wave moving direction.)	0~39	smaller amplitude wave speed and cycle choose
		40~79	Small amplitude wave speed and cycle choose
		80~119	middle amplitude wave speed and cycle choose
		120~159	more amplitude wave speed and cycle choose
		160~199	wide amplitude wave speed and cycle choose
		201~255	pattern wave moving speed and amplitude choose
CH11	Pattern A gradually	0~127	drawing speed choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing

CH12	pattern A point	0~127	drawing speed choose
		128~255	strobe
CH13	color A mode	0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B
		56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
240~255	drawing effect speed choose		
CH14	pattern B group choose	0~255	each 32 value choose pattern group each 64 value choose pattern group
CH15	Pattern B	0~15	light off
		16~255	each 10 value one pattern
CH16	Pattern B rotating	0~127	rotating angle choose
		128~143	positive rotation speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	

CH17	pattern B horizontal rotating	0~127	horizontal rotating angle choose
		128~143	horizontal rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH18	pattern B vertical rotating	0~127	vertical rotating angle choose
		128~143	vertical rotating speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH19	pattern B horizontal move	0~127	horizontal move position choose
		128~143	horizontal move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH20	pattern B vertical move	0~127	vertical move position choose
		128~143	vertical move speed choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	




CH21	pattern B zoom	0~127	zoom size choose
		128~143	zoom size choose
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~239	
		240~255	
CH22	wave B mode (the second channel pattern mode, when use wave can be control wave moving direction.)	0~39	smaller amplitude wave speed and cycle choose
		40~79	Small amplitude wave speed and cycle choose
		80~119	middle amplitude wave speed and cycle choose
		120~159	more amplitude wave speed and cycle choose
		160~199	wide amplitude wave speed and cycle choose
		201~255	pattern wave moving speed and amplitude choose
CH23	Pattern B gradually	0~127	drawing speed choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing
CH24	pattern B point	0~127	drawing speed choose
		128~255	strobe
		0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B

CH25	color B mode	56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
		240~255	drawing effect speed choose

3).SD PLAY 14 Channel model follow:

CH	Function	value	Description	
CH1	light off	0~31	light off	
	IPLAY mode	32~95		
	SD IPLAY mode	96~159	full range 1~14CH value	No music triggered manual choose pattern
		160~175	folder pattern loop 1~2CH value	
		176~239	basic range 1~14CH value	Music triggered manual choose pattern
	240~255	music triggered folder pattern loop		
CH2	folder	0~255	each 32 values choose 1 page	
CH3	file	0~15	off	
		16~255	each 10 value pattern	
CH4	rotating angle	0~255	0° → 360°	
CH5	X size	0~255	100% → 0%	
CH6	Y size	0~255	100% → 0%	
CH7	X position	0~255	-100% → 100%	

CH8	Y position	0~255	-100% → 100%
CH9	zoom	0~255	100% → 0%
CH10	light ( TTL mode can not use it )	0~255	100% → 0% 
CH11	Valid visible point	0~255	100% → 0%
CH12	scanner k	0~31	default
		32~223	6K~29K
		224~255	30K
CH13	color	0~31	default
		32~255	RED-ORANGE-YELLOW-LIME-REEM-CYAN-BLUE-PURPLE-PINK-RED-WHITE
CH14	display speed	0~15	100%
		16~31	pause
		32~255	25%~200%

### 5-2、 Automatic play mode

In LCD display by UP, DOWN keys to select "Auto Play", then the laser light Auto Play choreographed patterns, fast-paced, medium-paced, slow-paced, animation effect, four different modes to choose.

### 5-3、 Music automatic play mode

In LCD display by UP,DOWN keys to select"music automatic play mode",then Voice activated by the built-in microphone,and lighting built-in fast paced, medium-paced, slow paced, animation effect four modes, select any effect of the music transformation color and pattern.

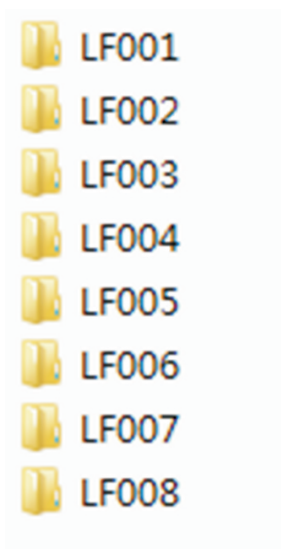
#### 5-4、 SD card play mode

1).This system can read SD card 8 peaces has been fixed folders, each folder can be read 48 pattern files, a pattern file format support (.ild) format files. Through UP, DOWN keys to select pattern file, if the loop is set to ON, that is looping the entire SD folder (select a single file name is invalid), To select a single file name displays the required return loop that is set to OFF . Through UP, DOWN keys to select the trigger pattern file playback mode, ON as a music trigger, OFF auto-play.

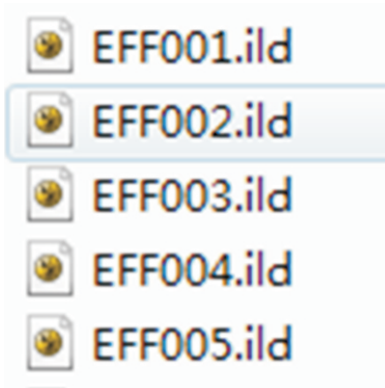
2).when SD card insert to the light through UP, DOWN keys to select SD card mode, or using controller channel operation, you can play SD card files . in SD card mode by UP, DOWN keys to select folders and files to find files you need, or use controller to the operation to find the files you need, when the light select SD card mode (ONE is a single file loop, FILE is single folder all files loop, ALL is all SD card file loop playback) three modes.

#### SD card file prepare:

1).SD card root directory create a new folder, which only supports eight file as show, naming rules as show below:



2).Pleas put the folder into a standard (.ild) file, (Note: The file name can be customized name, recommend number or letter named ,file-name can not more than 32 letters), as show below:



3).Folder playback order & folder content playback sequence operation is as follows:

! a single folder files play, play will order by file copy to SD in order to play, first copy first. If you want to change the play order only according to you need to order a copy again.

! the entire SD card file playback, playback will be fixed by the serial number to play (from the LF001~LF008 loop playback) sequence is also in order to copy .

SD card folder corresponding to English/Chinese name		
Folder	英文名(EN)	中文名(CH)
LF001	Animals	动物
LF002	Abstracts 1	简单几何
LF003	Abstracts 2	抽象几何
LF004	Music+Dancers	音乐&跳舞
LF005	People+Characters	人物&特性
LF006	Themes	主题
LF007	Logos+Text	Logo&文本
LF008	Shows	表演

### **5-5、 master-slave mode**

Master---In LCD display by UP,DOWN keys to select "system set" menu master as ON. Then light as master.

Slaver----- in LCD display by “UP ,DOWN” keys to select”system set” menu master as OFF( default off),press BACK key ,then select “DMX address” menu DMX address as 001. Then the light as slaver.

### **5-6、 ILDA control mode**

If use DB25 ILDA single cable link laser software or laser light, laser light will be priority selection ILDA single . No need any set. If use RJ45 internet cable link, need use Lightful ILDA 1 for 4 controller box then in LCD display press UP,DOWN select” system set” menu ILDA switch as ON, Then can link it.(default

## **Sixth、 Safety warning and maintain**

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### **6 - 1 Safety warning:**

- 1、 The product must be installed by a qualified professional. Please do not open the equipment.
- 2、 The fans and air-vents should not be jammed by other equipment or decorate materials.
- 3、 Avoid looking directly in the light source.

### **6 - 2 Maintain:**

- 1、 Please read the user manual in detail before operating the equipment Please call the technician in case the machine broken down.
- 2、 Keep the equipment away from water or moisture.
- 3、 Make sure the power is off and the equipment is not connected to the mains power supply before opening the unit or carrying and any maintenance.
- 4、 If there has been any damaged caused to the laser diode by the user

## Seventh、 Specification

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- 1、 Power Input: AC100~240V,50/60Hz
- 2、 Power Consumption:  <250W,  <450W,  <650W
- 3、 Laser:  Single,  RGB
- 4、 Laser modulation:  TTL,  Analog
- 5、 Scanner:  ILDA20Kppc  
 ILDA25Kppc  
 ILDA30Kppc  
 ILDA40Kppc
- 6、 DMX channel mode: 13CH/25CH/14CH(SD card)
- 7、 Control mode: Sound control/Automatic/Master-Slave  
DMX512/SD card(14)/ILDA

Product common breakdown comparative chart	
Breakdown cause	Major breakdown analysis and solution
The fixture no work	<ol style="list-style-type: none"> <li>1. Check the power cable whether to connect the fixture, whether the fuse does burn out.</li> <li>2. Check the input voltage whether to assign the voltage match with the fixture.</li> </ol>
No sound control	<ol style="list-style-type: none"> <li>1. Check the address code or the display whether establishes according to the instruction booklet is the voice control pattern.</li> <li>2. Check the potentiometer possibly moves is smallest, attempt to adjust the potentiometer.</li> </ol>
The fixture can bright normally, but it not controlled by controller	<ol style="list-style-type: none"> <li>1. Please check the fixtures' DIP outset address setting whether correctly.</li> <li>2. Please check the XLR signal cable whether be damage.</li> </ol>
Master-slave mode, The master mode is normal, but slave mode is not normal	<ol style="list-style-type: none"> <li>1. Please conformed only one for the master and the master without DMX be connected, and to set master as sound control or auto pattern.</li> <li>2. If the Master-slave setting is right but still have problem, please check the XLR connect cable.</li> </ol>
The button malfunction, does not work.	<ol style="list-style-type: none"> <li>1. Check the buttons whether to have some button not to have the normal reset.</li> </ol>
The fixtures' brightness obvious dim	<ol style="list-style-type: none"> <li>1. Check the LED tubes or the laser already whether to be service life.</li> <li>2. Check the internal and external optical system whether to be clean.</li> </ol>



