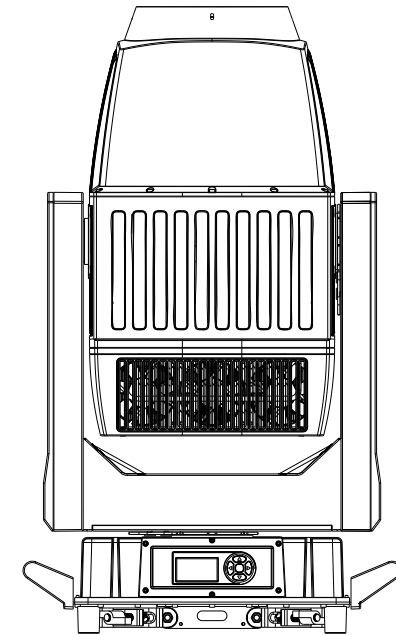


# LIGHT SKY®

广州市升龙灯光设备有限公司  
FLY DRAGON LIGHTING EQUIPMENT CO.,LTD



## LIGHT SKY®

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LIGHT SKY®



## IP2021Profile

### 使用说明书

### USER MANUAL

Please read these user manual carefully before use!  
使用前请仔细阅读本产品使用说明书!

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Congratulations on choosing our company product! We thank you for your custom.

- ◆Please note that this product, as all the others in the rich my company range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.
- ◆Carefully read this user manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.
- ◆My company disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this user manual, which must always accompany the fitting.
- ◆My company reserves the right to modify the characteristics stated in this user manual at any time and without prior notice.

感谢您选用我们公司的产品。

请记住, 这款产品和其他公司的产品一样, 坚持以人为本的设计制造理念, 以产品质量为根本。

我们把客户的利益放在第一位, 尽最大的努力满足客户的要求。

请仔细阅读完这本使用说明书并妥善保管, 以便日后参考。在充分了解产品信息的情况下, 严格遵守使用说明书进行操作, 这样才能确保产品正确安全地安装、使用与服务。

我们公司不承担所有由于个人在安装、使用、维修时没有按照说明书操作而损坏灯具或其他性能的责任。

我们公司保留在任何时间和没有提前通知的情况下修改说明书权利。

## SAFETY INFORMATION / 安全信息



- This lighting fixture is for professional use only - it is not for household use.  
此灯具仅供专业人士使用-不适合家居使用

### ■ Installation 安装

Make sure all parts for fixing the projector are in a good state of repair.  
Make sure the point of anchorage is stable before positioning the projector.  
The safety chain must be properly hooked onto the fitting and secured to the framework.  
When suspending the fixture, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all the devices they support.

确保固定灯具的所有零部件都完好无损。

在固定灯具之前请确保固定物是牢固稳定的。

安全绳索一定要恰当的固定在安全的结构上。

在吊装灯具时，确保支撑结构和所使用的所有配件至少可以保持10倍于他们支持的所有设备的重量。



### ■ Mounting surface and fire protection 安装面与防火

Please do not install the fixture onto combustible surface.

请不要将灯具直接安装在可燃物质的表面上。

Keep all combustible materials at least 20 cm away from the fixture.

保持所有易燃材料远离灯具至少20厘米

Ensure a minimum clearance of 0.2m around the cooling fans and ventilation.

灯具上的风扇或通风处至少在0.2m范围内不能有障碍物。

Do not expose the front glass to sunlight or other strong light source from any angle.

Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.

不要从任何角度将前玻璃暴露在阳光下或其他强光源上。

镜头可以将太阳光线聚焦在灯具里，从而产生潜在的火灾隐患。



ta40°C

### ■ Maximum ambient temperature 最高环境温度

Do not operate the fixture if the ambient temperature (Ta) exceeds 40°C.

如果环境温度 (Ta) 超过40°C请勿操作此灯具。



### ■ Protection against electrical shock 电击防护

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1).

It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

电源供应系统的地线必须有效接地 (标准EN 60598-1)。

另外，建议您使用适当大小的漏电电路断路器，保护灯具电源线以免其间接接地或对地短路。

### ■ Connection to mains supply 电源供应

The double insulation between the LV power supply and the control conductor on the fixture.

Connection to the electricity mains must be carried out by a qualified electrical installer.

Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.

This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

Don't use the power cable when the insulation is damaged.

It must be the manufacturer or distributor or the professional person to change the damaged power cable in order to avoid any dangerous.

灯具上的LV电源和控制导体之间采用的双重绝缘

连接电源的总线必须由有资格的专业技术人员安装。

检测总线频率及电压是否与灯具上的标签上所标注的数值一致，即和灯具设计数值一致。

该标签还给出了输入功率，您需要参考计算电线所能够连接的最大灯具数量，以避免出现过载。

请勿使用绝缘层有损伤的电源线，发现灯具电源线有损伤时，必须由制造商或经销商或一个有专业资格的人员更换，以免发生危险。



### ■ Y type connection Y型连接

If the external cable or cord of the lamp is damaged, the cable shall be replaced by the manufacturer or its service agent or similarly qualified person to avoid danger.

如果此灯具的外部软缆或软线损坏了,该线要由制造商或其服务代理商或有类似资格的人更换,以避免发生危险

tc 80 °C



### ■ Temperature of the external surface 外表面最高温度

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80 °C.

Avoid contact by persons and materials.

Allow the fixture to cool for at least 15 minutes before handling.

在热稳定的状态下,灯具外表面的温度最高点可达80°C。

避免直接接触灯具热表面。

让灯具冷却至少15分钟后在处理灯具(问题)



### ■ Maintenance 维护

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

After switching off, do not remove any p

在开始任何维修工作或清洁灯具之前,必须切断灯具供电电源。



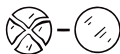
### ■ Light 光源

The light source in this fixture shall be replaced by the manufacturer or its service agent or similar qualification.

Always disconnect from mains before replacing the light.

此灯具内的光源应由制造商或其服务代理商或有类似资格的人来更换

更换光源前,请始终切断电源



### ■ Protection against explosion 预防炸裂

The protection screen, lens or uv screen on the lamp can be damaged to the degree of failure if visible damage, such as a crack or deep mark, should be replaced.

灯具上的保护屏、透镜或紫外线屏如果产生可见的损坏,即损坏到失效程度,如产生裂缝或深痕时,应更换。



### ■ Protection optical radiation 光辐射保护

Never look directly into the light source. You risk injury to your retina, which may induce blindness.

请不要眼睛对看光源,它对眼睛网膜的损害可能会导致失明。

Do not look at LEDs with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.

不要用放大镜、望远镜、双筒望远镜或类似的光学仪器来观察LED光源,这些仪器可以集中输出光。



The products referred to in this manual conform to the European Community Directives to which they are subject:

Low Voltage 2014/35/EU

Electromagnetic Compatibility 2014/30/EU

该产品符合欧洲共同体要求,遵守:

低压2014/35/EU

电磁兼容性2014/30/EU

● **Power supplies available** 电压选配范围:

AC100-240V, 50/60Hz

● **Rated power** 额定功率:

- 1530W PF 0.987 15.3A

● **Power in connector**/电源输入接口:

- IP66 Neutrik power CON in/out (SAC3PX 16A 250V)  
- IP66防水 Neutrik输入输出电源接口(SAC3PX 16A 250V)

● **DMX and RDM data in/out** / DMX和RDM数据输入/输出

- IP66 Locking 3-pin & 5-pin XLR  
- DMX和RDM数据输入/输出: 3芯和5芯防水(IP66)卡依座

● **Light source**/光源:

- white light LED module/白色LED照明模块

● **Light source power**/光源功率: 1200W-1400W

● **Median Lifetime**/平均寿命: 20000h

● **Luminous Flux**/光通量: 86000 lm

● **Light source CCT**/光源色温: 8000 K

● **CCT Light output**/灯具色温: 6500 K

● **CRI**/显色指数:

- Standard version标准: High display version高显版本95.8  
- Optional version选配: Ordinary edition普显版本: 70  
- Enhance CRI color rendering: Can increase to 88 the above  
- 提升CRI显色片: 可提高至88以上

● **OPTICAL SYSTEM**光学系统

- High-precision zoom optical system, ratio: 9.5 : 1

- 高精度变焦光学系统, 变焦倍率: 9.5 : 1

- **Zoom range**缩放角度: 6° - 57°

- **Output lens diameter**/出光口外径: φ186mm

- **Fixture total lumen output**/灯具光通量:

- High display version/高显版本: 25591 lm

- Highlight version/高亮版本: 40000 lm

- **Light output**/光照度:

- High display version/高显版本可达: 13068 lux @10m

- Highlight version/高亮版本可达: 22308 lux @10m

● **Colour Wheel**颜色盘:

- 5 colours + open, Bi-direction rotation and rainbow effect

- 5种颜色+白光, 双向旋转彩虹效果

- Cyan: 0-100%线性调节

- Magenta: 0-100%线性调节

- Yellow: 0-100%线性调节

● **CTO色温**: CCT conversion range 6500K - 3000K  
色温变换范围为6500K-3000K

● **Effect Wheel**效果盘:

- 7 colours effect Wheel, used alone or in combination with Prism wheel, rotating in both directions at variable speed, kaleidoscope effects and rainbow effect.

- 七彩效果盘, 可单独使用或与棱镜盘组合使用, 双向旋转快慢可调, 可万花筒和彩虹效果。

● **Rotating gobo wheel**旋转图案盘:

- Two rotating gobo wheels, 6 rotating Gobos of each wheel, The gobos superposition combination effect is quite excellent.

- 两个旋转图案盘, 每个盘有6个可更换图案+白光, 图案叠加组合效果相当出色。

● **Glass gobos**玻璃图案:

- 12 rotating gobos / 12个旋转图案

- Outside diameter图案片外径: φ31.9 mm

- Image diameter图案片内径:

rotating gobo wheel A: φ25 mm;

rotating gobo wheel B: φ26 mm;

Thickness层厚度: 1.1 mm.

● **Channel** /通道:

- Standard channel: 44CH, 56CH, 详见通道表

● **Protocols**/控制协议:

- DMX-512, RDM, Wireless DMX 512 (optional / 选配) .

● **Framing Shutters System** /切割系统:

- 4 individually positionable blades with 90° rotation of the complete framing

- 4个切割片, 8个方位独立控制, 整个切割框架可旋转90度

● **The aperture**光圈:

- 5-100% linearly adjustable with macro.

- 5-100%线性调节光圈, 带宏功能.

● **Strobe** 频闪: 1-30 times/second/1-30次/秒电子频闪.

● **Dimmer** 调光

- 0-100% linear adjustment, flickerfree management for HD and UHD cameras.

- 0-100%线性调节, 调光无闪烁, 适用于高清和超高清摄像机。

● **Prism** 棱镜

- 4 face prism, multiple prism combination effect, prism macro effect

- 4棱镜, 多棱镜组合效果、棱镜宏观效果

● **Frost effect**/柔光效果

- 1° and 20° two levels of different frost filters to create and improve the wash effect. They can be used independently and overlaid

- 1°和20°新型材料的高亮度雾化片, 可独立使用和叠加使用, 有效提升切入雾化模式的亮度。

● **Focus and Lens** 调焦与镜头

- Motorized zoom and focus/高精电动变焦与对焦

● **X/Y Travel**(X/Y行程):

Pan movement 540°, Tilt movement 270°

● **X/Y Resolution**(X/Y微调): 2.11°/1.05°

● **X/Y Speed**(X/Y速度): Standard and Speed/标准与速度可调

- Automatic Pan / Tilt position correction/Pan/Tilt 可自动纠错与校正

● **Software upgrade** 软件升级

- Insert USB upgrade software. 可插入USB升级软件

● **Display** 显示

- The display panel adopts a 2.0-inch LCD12864 LCD screen

- 显示面板采用2.0寸LCD12864液晶屏

● **Intelligent control**智能管控:

- Display board can record device's using time, show device's temperature, channel data and software version .

- 菜单可记录设备使用时间和发光时间, 显示设备温度、通道数据及软件版本信息

● **Error alarm**错误报警:

- Automatic alarm for fixture failure 灯具故障自动报警

● **IP set** 地址码设置

- RDM two-way data transmission, Remote reset DMX address.

- RDM双向数据传输, 控台可远程重置DMX地址码

● **IP66 protection**/IP66 防护等级

● **Lighting Size** 灯具尺寸: 509x303x840.5MM

● **Box Size** 纸箱尺寸: 950x630x420MM

N.W.净重: 55.0kg, G.W.毛重: 61.50g

● **Flycase Size** 航空箱尺寸(1台装): 735X630X905mm

N.W.净重: 55.0kg, G.W.毛重: 98.0kg

● **HERMAL SPECIFICATION** 工作温度

- Maximum ambient temperature最高环境温度: 40 °C
- Maximum housing temperature最高体表温度点: 80 °C
- Minimum operating temperature最低工作温度: -20 °C

● **MECHANICAL SPECIFICATION** 物理特性

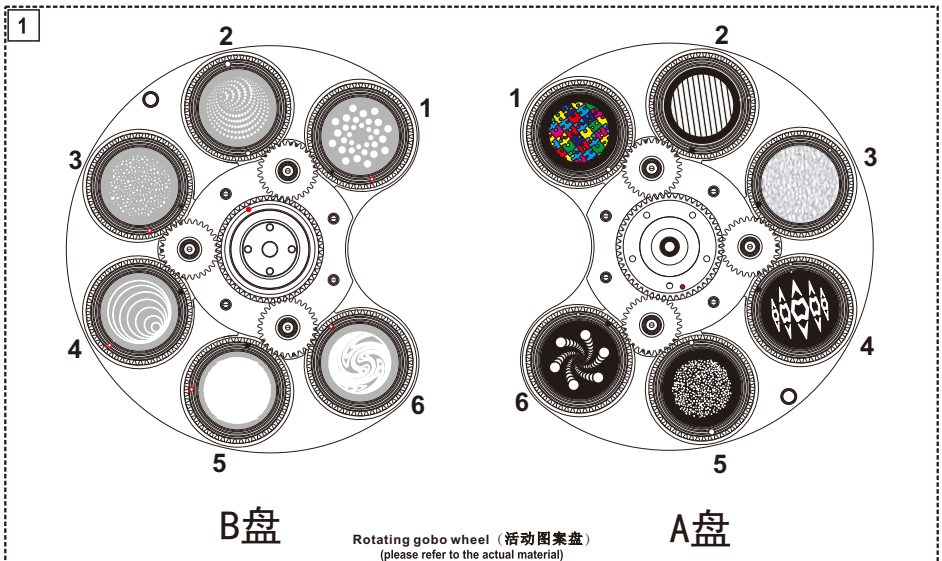
- 一体化可折叠式灯钩设计, 拆装与运输更方便

● **RIGGING** 灯具安装

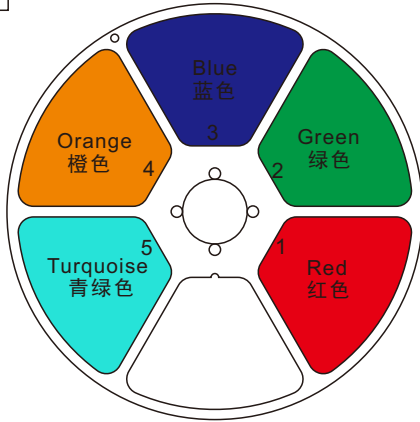
- The fixture can be placed on the floor or hang on a trussing system.
- 灯具可正立放置在平整地板上, 或固定安装在桁架上, 可正立、倒立或侧挂安装。
- Make sure all parts for fixing the projector are in a good state of repair.
- 安装前请检查, 确保固定灯具的所有零部件都完好无损。在固定灯具之前请确保固定物是牢固稳定的。
- Make sure the point of anchorage is stable before positioning the projector.
- 在吊装灯具时, 确保支撑结构和所使用的配件至少可以保持10倍于他们支持的所有设备的重量。
- When suspending the fixture, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all the devices they support.
- The safety rope must be fitted.
- 要求安全绳必须牢固地固定在灯具支架上, 然后连接到底座安全绳固定孔或提手上。

● **APPROVALS** 标准与认证

- The product implementation standard产品执行标准: GB 7000.1-2015 GB7000. 217-2008
- Approved certifications通过认证: CE、RoHs
- The product complies with the following EU directives:
  - Low Voltage Directive 2014/35/EU
  - EMC Directive 2014/30/EU
- 本产品符合以下欧盟指令:
  - 低电压指令2014/35/EU
  - EMC指令2014/30/EU



2

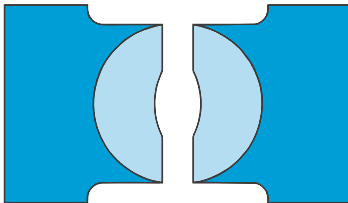


**Color wheel (颜色盘)**  
(please refer to the actual material)



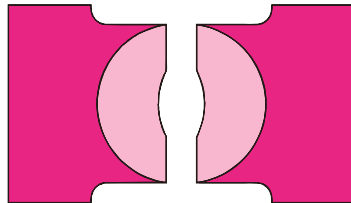
**7 Colour (七彩色片)**  
(please refer to the actual material)

3



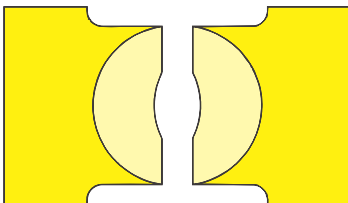
Cyan-A

Cyan-B



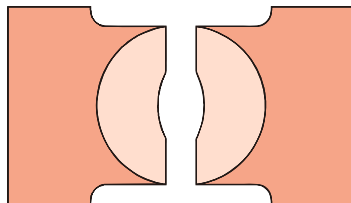
Magenta-A

Magenta-B



Yellow-A

Yellow-B

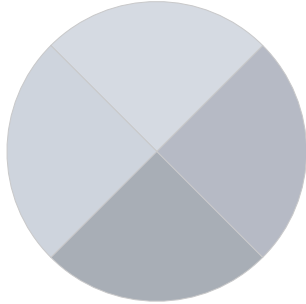


CTO-A

CTO-B

**CMY color mixing system (CMYK混色系统)**

4



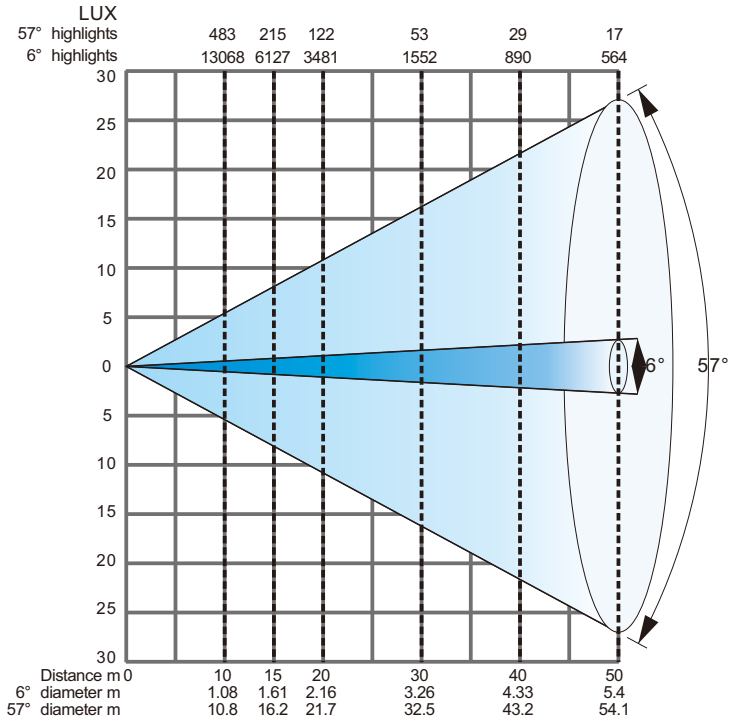
4 face Prism(4面棱镜)

5-1

distance, spot diameter and illumination diagram

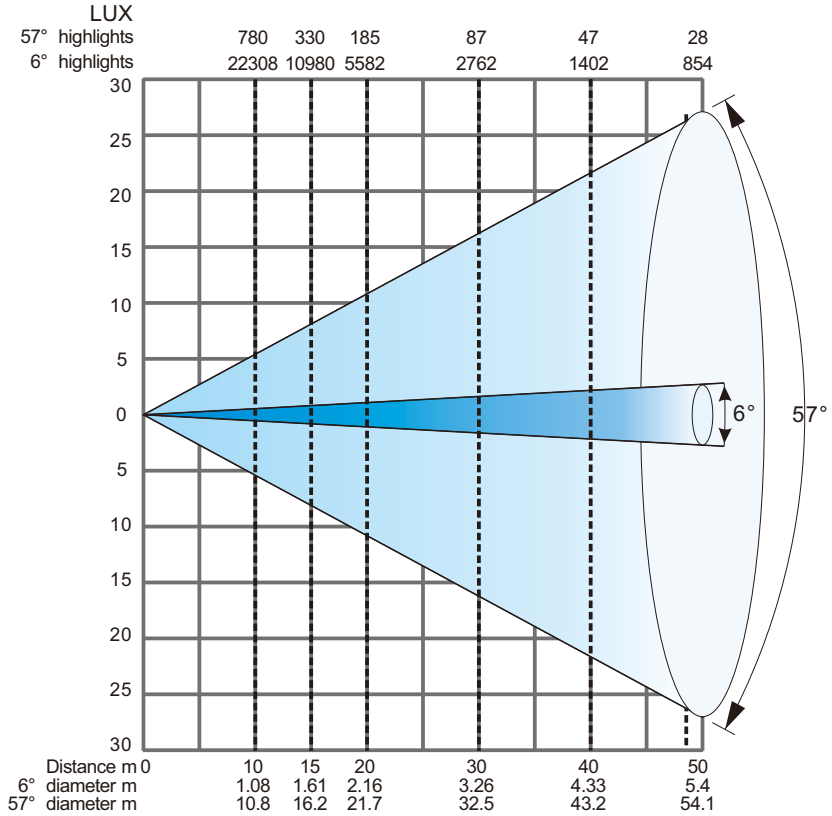
射距、光斑直径与照度关系图

Standard: High display version 高显版本(6° - 57°)

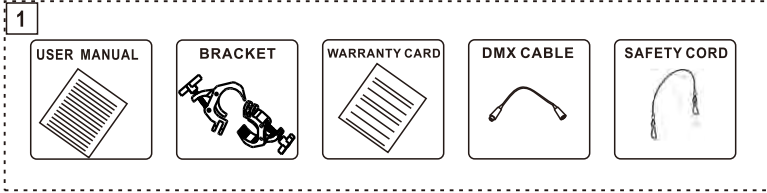




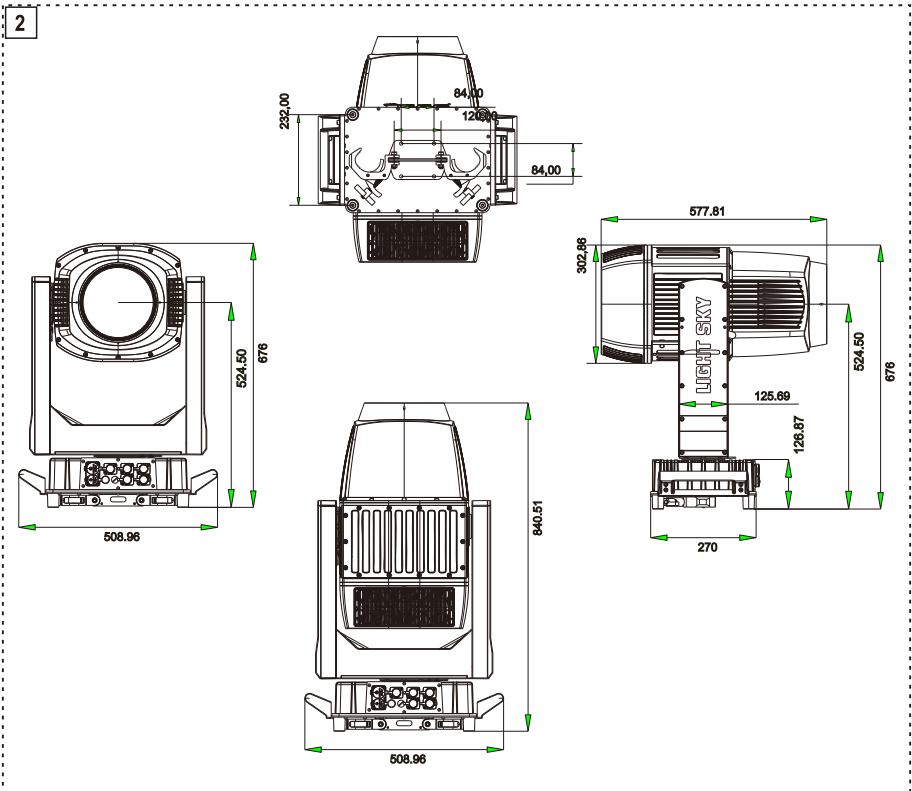
射距、光斑直径与照度关系图  
 distance, spot diameter and illumination diagram  
 Highlight version 高亮版本 (6° - 57°)



## ATTACHMENT AND BODY SIZE / 附件与包装尺寸

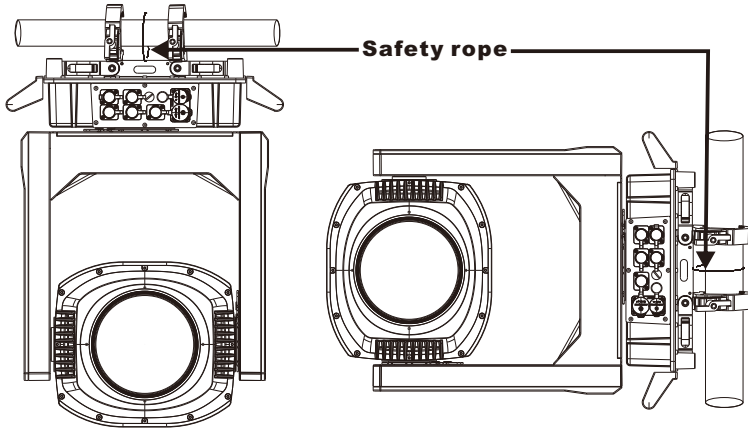


Attachment contents- Fig. 1



Body Size---Fig 2

3



Compact, standard clamp system equipped & easy installation

灯具底座配置有一体化可折叠灯钩，安装更方便，使用更安全

The fixture can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

WARNING: with the exception of when the fixture is positioned on the floor, the safety rope must be fitted.

This must be securely fixed to the support structure of the fixture and then connected to the fixing point at the centre of the base.

灯具可通过橡胶机脚放置在地板上、或安装在桁架、天花板或墙壁上。

警告：除非灯具放置在地板上，否则必须安装安全绳。

要求安全绳必须牢固地固定在灯具支架上，然后连接到底座中心固定点上。

Make sure all parts for fixing the fixture are in a good state of repair.

Make sure the point of anchorage is stable before positioning the fixture.

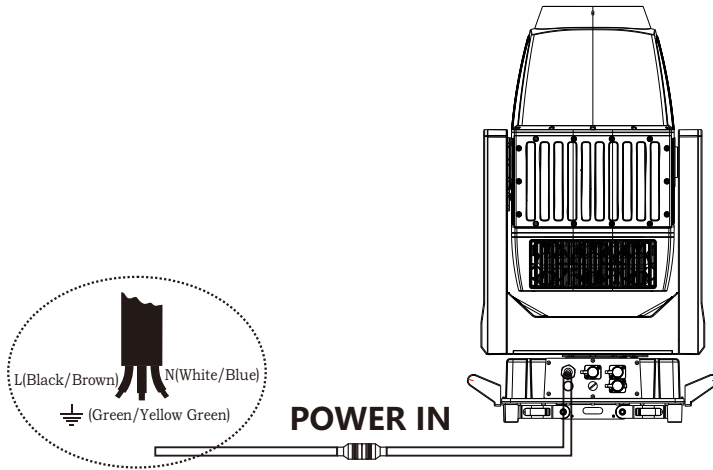
When suspending the fixture, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all the devices they support.

确保固定灯具的所有零部件都完好无损。

在固定灯具之前请确保固定物是牢固稳定的。

在吊装灯具时，确保支撑结构和所使用的所有配件至少可以保持10倍于他们支持的所有设备的重量。



3



Connecting to the mains supply ---Fig 3

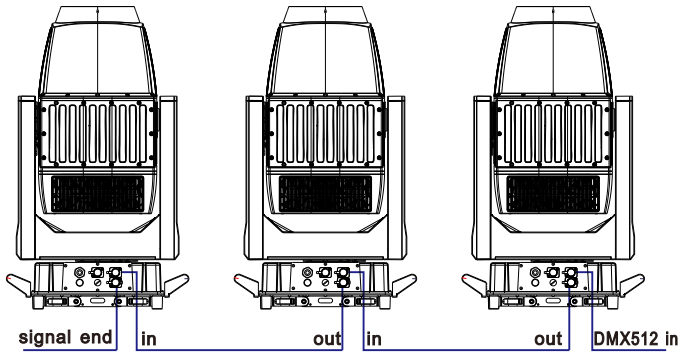
Wire color-coding and power connections:

电源线颜色编号和电源连接如下表:

Conductor	Symbol	Wire Color (EU models)	Wire Color (US models)
live	<b>L</b>	brown	black
neutral	<b>N</b>	blue	white
ground(earth)	 or 	yellow-green	green

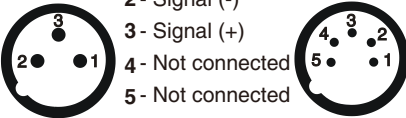
- connection to the electricity mains must be carried out by a qualified electrical installer.
- 连接电源的总线必须由有资格的专业技术人员安装。
- After doing the above operation and making sure all the devices had been installed with natural operate, press the power switch to check whether every -thing is working normally.
- 在完成上述全部操作并确保已安装好之后，才可以上电对灯具进行操作。

5



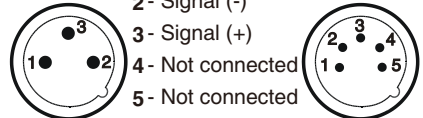
### DMX - output

- 1- Shield
- 2- Signal (-)
- 3- Signal (+)
- 4- Not connected
- 5- Not connected



### DMX-input

- 1- Shield
- 2- Signal (-)
- 3- Signal (+)
- 4- Not connected
- 5- Not connected



### Connecting to the control signal line (DMX) - Fig. 5

◎ Please use the round 3 or 5-pin XLR plugs & sockets offered by menu factory to connect the first projector's output to the second projector's input and connect the second projector's output to the third projector's input. And in the same way for the rest, eventually connect the last projector's output, all the projectors are together.

主灯的输出端与子灯的输入端之间的连接,可以采用由厂商提供的圆柱形3或5芯XLR电缆。将主灯的OUT插座与子灯底座上的IN插座相连,然后再将OUT插座与下一个子灯的IN插座相连,如此类推直到所有子灯都被连接在一起。

◎ The projectors's control signal output or input by using the 3 or 5-pin XLR plug and socket. If need to lengthen the communication cable, please make sure the both side of 3 or 5-pin plug is one to one. (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-cord screened cable  $75\Omega$  resistance with each core is at least a 0.5mm diameter. (**Caution:** All the inside leading wire of 3 or 5-pin XLR plug couldn't touch each other or plinth).

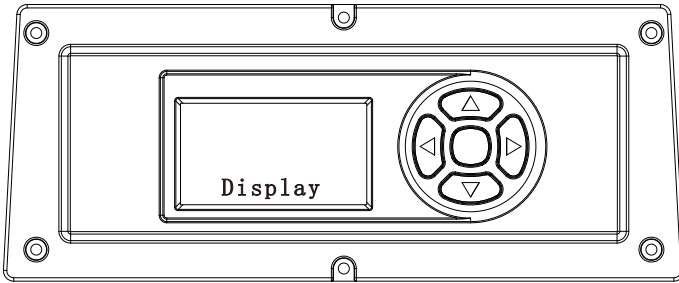
信号线进行接入或接出时,应使用与灯具一并提供的圆柱形3或5芯XLR插头。如果需要延长通讯电缆,在接线时,公母3或5芯XLR插头两端必须一一对应(即1对应1,2对应2,3对应3),否则易导致通讯中断。通讯线为两芯屏蔽线,阻抗特性为 $75\Omega$ 。(注意:每根通讯电缆线的线芯直径至少应为0.5mm,所有的3或5芯XLR的内部导线不应互相接触或接触到插头体。)

◎ Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a  $120\Omega$  1/2W resistor connected across pin 2 and 3. Which is then plugged into the output socket on the last projector in the chain. Refer to the connection.

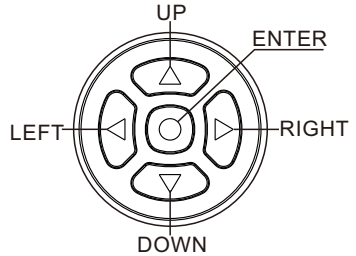
在安装灯具时建议使用DMX信号终端器;它可以避免由电噪声而导致干扰数字控制信号。简单来说,DMX终端器是一个XLR连接器,在其2脚与3脚之间连有一个120欧姆1/2W的电阻,将它连到最后一台灯具的OUT插座上。

## CONTROL PANEL

6



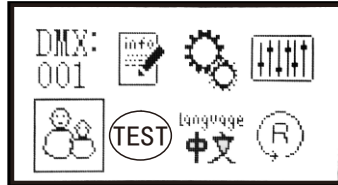
- ▲ 向上箭头: 向上页面或增加
- ▼ 向下箭头: 向下页面或减少
- ◀ 向左箭头: 向左、减少或退出
- ▶ 向右箭头: 向右、增加或退出
- 确认键: 确认OK
- ▶ 退出: 在选择屏幕中



- Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display (please refer to the actual material)

设备上电后，灯具复位自检。  
与此同时，显示屏滚动显示下面的信息。（具体以实物显示为准）

7



DMX: DMX Address  
001 /DMX地址

Information  
/基本信息

Personal  
/个性设置

Manual control  
/手动控制

Service  
/服务选项

TEST  
/灯具测试

Language  
/语言

Reversal  
/屏幕旋转

## MENU SETTING(V1.0) / 菜单设置

主菜单	一级菜单	二级菜单	三级菜单
	Address/地址码:001-1XX		
	DMX/ARTNET /信号优先选择	→ DMX Priority /DMX 优先 ARTNET Priority /ARTNET 优先	
	ArtNet Set/ArtNet 设置	→ IP Address → XXX.XXX.XXX.XXX Mask Address → XXX.XXX.XXX.XXX Net Address → 1-128 Sub Net Address → 0-15 Universe Address → 0-15	
	Return(ESC)/退出		
Information/ 基本信息	Total Time/总运行时间	→ Power:/总上电:****(h) Led ON:/总亮泡:****(h)	
	Led hours/设备时间	→ Total/上电时间:****(h) Led open/亮灯时间:****(h)	
	Temperature /设备温度	→ LED TEM/光源温度: 000.0 Borad TEM/板温度:000.0	
	RDM UID/RDM地址	→ RDM UID 3888:00000000	
	FanSpeed/Voltag /风机速度/电压	→ InFan/尾进风机 00.0V OutFan/尾出风机 00.0V XYFan/XY风机 00.0V ProfFan/切割风机 00.0V LEDFan/散热器风机 00.0V CMYFan/CMY风机 00.0V FocusFan/调焦风机 00.0V PrismFan/棱镜风机 00.0V InFan1/尾进风机1 0000 R(PM) InFan2/尾进风机2 0000 R(PM) InFan3/尾进风机3 0000 R(PM) OutFan1/尾出风机1 0000 R(PM) OutFan2/尾出风机2 0000 R(PM) OutFan3/尾出风机3 0000 R(PM) XYFan/XY风机 0000 R(PM) ProfFan/切割风机 0000 R(PM) LEDFan/散热器风机 0000 R(PM) CMYFan/CMY鼓风机 0000 R(PM) GoboFan/图案风机 0000 R(PM) BottomFan1/底箱风机1 0000 R(PM) BottomFan2/底箱风机2 0000 R(PM)	
	DMX live/设备通道	→ 1. Pan/水平 000-255 2. PanFine/水平 微调 000-255 3. Tilt/垂直 000-255 4. TiltFine/垂直微调 000-255 .....	
	System version /版本信息	→ Display/显示板 XY Board/XY板:V*,** CMY/CMY板: V*,** Gobo/图案板: V*,** Zoom/放大板: V*,** Profile1/切割板1: V*,** Fan/风机板:V*,** Prism/棱镜板: V*,** Profile2/切割板2: V*,**	
	Return(ESC)/退出		
	Channel mode/ 通道模式	→ Standard-IC (44CH/标准模式-IC (44CH) Extended-IC (56CH/扩展模式-IC (56CH)	
	Display lock /界面显示密码	→ OFF/关 ON/开	
	Dimmer Curve /调光曲线	→ Linear/线性 Square (Default)/平方曲线(默认) I-Square/反平方曲线 SCurve/S曲线	
	P/T invert /水平垂直反向	→ Pan invert/水平反向 Tilt invert/垂直反向	→ OFF/关 ON/开 OFF/关 ON/开

主菜单	一级菜单	二级菜单	三级菜单	
Personal/个性设置	Display/显示设置	Language/语言	→ English(英文) Chinese(中文) Open/常亮	
		BackLight/背光	→ Auto close(30s)/自动关(30S)	
		Reversal/屏幕旋转	→ Normal/正常 Rota.180/旋转180度	
		Backlight blink/背光闪烁	→ ON/打开 OFF/关闭	
		Return(ESC)/退出		
	Power mode/功率模式	→ Standard mode/标准模式		
		Silent mode/静音模式		
		Hot mode/高亮模式		
	Led Freq Set/Led频率设置	→ 1000 Hz/1000 赫兹		
		3600 Hz/3600 赫兹 7200 Hz/7200 赫兹 25000 Hz/25000 赫兹		
	Return(ESC)/退出			
	Manual control/手动控制	Channel control/通道控制	→ 1.Pan/水平 000-255 2.PanFine/水平 微调 000-255 3.Tilt/垂直 000-255 4.TiltFine/垂直微调 000-255 .... .... Return(ESC)/退出	
			Reset/复位	→ system reset/系统复位 Pan/Tilt reset/水平垂直复位 Gobo reset/图案系统复位 Color reset/颜色系统复位 Profile reset/切割系统复位 Focus reset/调焦系统复位 Effect reset/效果盘复位 Return(ESC)/退出
Return(ESC)/退出				
Service/服务选项	Error list/当前故障信息			
	Clean error/清除故障信息	→ No/不清除 Yes/清除		
	Calibration/校准	Pan/水平 000-255		
		Tilt/垂直 000-255		
		Cyan/青色 000-255		
		Magenta/洋红色 000-255		
		Yellow/黄色 000-255		
		CT0/降色温 000-255		
		ColorWheel/色盘 000-255		
		Gobo1/图案1 000-255		
		Gobo1 Rot./图案1自转 000-255		
		Gobo2/图案2 000-255		
		Gobo2 Rot./图案2自转 000-255		
		Blade UP1/叶片上1 000-255		
		Blade UP2/叶片上2 000-255		
		Blade DW1/叶片下1 000-255		
		Blade DW2/叶片下2 000-255		
		Blade LF1/叶片左1 000-255		
		Blade LF2/叶片左2 000-255		
		Blade RF1/叶片右1 000-255		
		Blade RF2/叶片右2 000-255		
		FramingRot/切割旋转 000-255		
		Prism/棱镜 000-255		
		Effect/七彩盘 000-255		
		Frost1/雾化1 000-255		
		Frost2/雾化2 000-255		
		Iris/光圈 000-255		
Zoom/放大 000-255				
Foucs/调焦 000-255				
Dimmer/亮度 000-255				



主菜单	一级菜单	二级菜单	三级菜单
	Factory/工厂设置	FosForGobo1/调焦-图案1	
		FosForGobo2/调焦-图案2	
		FosForIris/调焦-光圈	
		Return (ESC)/退出	
		Default/工厂 默认	
		Time clean/时间清除	→ 总时间 → 上电时间 → 亮灯时间
		Developer/开发人员	→ Manual Fan Vol/调节风机电压
			→ Manual OR DMX/手动或DMX
			→ Load font/升级字库
			→ LOGO选择
→ 升级LOGO → 退出			
Firmware update/软件升级			
Return (ESC)/退出			
Return (ESC)/退出			
test/测试	→ Test P/T /测试水平垂直	→ STEP ***/场景 ***	
	→ Test effect/测试头部效果	→ STEP ***/场景 ***	
	→ Test all/整体测试	→ STEP ***/场景 ***	
	return/退出 (ESC)		
Language/ 语言	→ English/英文		
	→ Chinese/中文		
Reversal/屏幕 旋转	→ Normal/正常		
	→ Rota. 180/旋转180度		

## CHANNEL FUNCTION(V1.0)/44CH标准通道

Channel /通道	DMX	Function /功能	Note /备注
1		Pan/ 水平	
	0-255	Pan movement/positioning	
2		Pan fine/ 水平微调	
	0-255	Fine Pan positioning	
3		TILT / 垂直	
	0-255	Tilt movement/positioning	
4		TILT fine / 垂直微调	
	0-255	Fine Tilt movement/positioning	
5		PAN TILT Speed / 水平 垂直速度调节	
	0-255	Pan Tilt movement Speed From Fast To Slow /水平垂直速度调节由	
6		Functions / 功能	
	0 - 10	NO function/无功能	
	11 - 20	All Reset/所有功能复位	
	21 - 30	XY Reset /XY复位	
	31 - 40	Color System Reset / 颜色系统复位	
	41 - 50	Gobo System Reset /图案系统复位	
	51 - 60	Profile System Reset /切割系统复位	
	61 - 70	Focus System Reset /调焦系统复位	
	71 - 80	Silent Mode /静音模式	
	81 - 90	Standard Mode /标准模式	
	91 - 100	Hot Mode /高亮模式	
	101 - 110	NO function /无功能	
	111 - 120	NO function /无功能	
	121 - 130	NO function /无功能	
	131 - 140	NO function /无功能	
	141 - 150	NO function /无功能	
	151 - 160	NO function /无功能	
	161 - 170	NO function /无功能	
171 - 180	Display Back light is always bright/显示背光常亮		
181 - 190	Display Back light is Auto/显示背光自动		
191 - 200	function Open /功能打开		
201 - 255	NO function /无功能		
7		Cyan / 青色	
	0-255	White→full cyan/白光→青	
8		Magenta / 品红	
	0-255	White → full magenta/白光 → 品红	
9		Yellow / 黄色	
	0-255	White→ full yellow/白光→黄	
10		CTO / 降色温	
	0-255	Color Temperature from Deep to Light / 色温由高到低	
11		Colour wheel / 色盘	
	0 - 89	0 - 360°	
	90 - 104	OPEN	
	105 - 119	COLOR1	
	120 - 134	COLOR2	
	135 - 149	COLOR3	
	150 - 164	COLOR4	
	165 - 179	COLOR5	
	180 - 214	Forwards Color rotation from slow to fast/顺时针自转, 慢到快	
	215 - 249	Backwards Color rotation from fast to slow/逆时针自转, 快到慢	
	250 - 255	随机颜色	
12		Gobo1 / 图案1	
	0 - 9	Open	
	10-19	GOBO1	
	20 - 29	GOBO2	
	30 - 39	GOBO3	
	40 - 49	GOBO4	
	50 - 59	GOBO5	
	60 - 69	GOBO5	
	70 - 79	Gobo 1 shake slow to fast/ GOBO1 抖动,慢到快	
	80 - 89	Gobo 2 shake slow to fast/GOBO2 抖动,慢到快	

Channel / 通道	DMX	Function / 功能	Note / 备注
	90 - 99	Gobo 3 shake slow to fast/GOBO3 抖动,慢到快	
	100 - 109	Gobo 4 shake slow to fast/GOBO4 抖动,慢到快	
	110 - 119	Gobo 5 shake slow to fast/GOBO5 抖动,慢到快	
	120 - 129	Gobo 6 shake slow to fast/GOBO6 抖动,慢到快	
	130 - 139	OPEN/大圆	
	140 - 194	Forwards gobo rotation from slow to fast/顺时针自转, 慢到快	
	195 - 249	Backwards gobo rotation from fast to slow/逆时针自转, 快到慢	
	250 - 255	Random Gobo/随机图案	
13		Gobo1 Rotation / 图案1旋转	
	0 - 127	0° - 360°	
	128 - 187	Forwards gobo rotation from fast to slow/顺时针自转, 快到慢	
	188 - 195	Gobo rotation stop/旋转停止	
	196 - 255	Backwards gobo rotation from slow to fast/逆时针自转, 慢到快	
14		Gobo2 / 图案2	
	0 - 9	Open	
	10-19	GOBO1	
	20 - 29	GOBO2	
	30 - 39	GOBO3	
	40 - 49	GOBO4	
	50 - 59	GOBO5	
	60 - 69	GOBO6	
	70 - 79	Gobo 1 shake slow to fast/ GOBO1 抖动,慢到快	
	80 - 89	Gobo 2 shake slow to fast/GOBO2 抖动,慢到快	
	90 - 99	Gobo 3 shake slow to fast/GOBO3 抖动,慢到快	
	100 - 109	Gobo 4 shake slow to fast/GOBO4 抖动,慢到快	
	110 - 119	Gobo 5 shake slow to fast/GOBO5 抖动,慢到快	
	120 - 129	Gobo 6 shake slow to fast/GOBO6 抖动,慢到快	
	130 - 139	OPEN/大圆	
	140 - 194	Forwards gobo rotation from slow to fast/顺时针自转, 慢到快	
	195 - 249	Backwards gobo rotation from fast to slow/逆时针自转, 快到慢	
	250 - 255	Random Gobo/随机图案	
15		Gobo2 Rotation / 图案2旋转	
	0 - 127	0° - 360°	
	128 - 187	Forwards gobo rotation from fast to slow/顺时针自转, 快到慢	
	188 - 195	Gobo rotation stop/旋转停止	
	196 - 255	Backwards gobo rotation from slow to fast/逆时针自转, 慢到快	
16		Blade UP1 / 叶片上1	
17		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade UP2 / 叶片上2	
18		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade DW1 / 叶片下1	
19		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade DW2 / 叶片下2	
20		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade LF1 / 叶片左1	
21		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade LF2 / 叶片左2	
22		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade RF1 / 叶片右1	
23		Blade Out→In/切割片从打开过渡到切入	
	0 - 255	Blade RF2 / 叶片右2	
24		Blade Out→In/切割片从打开过渡到切入	
		Framing Rotation / 切割旋转	
	0 - 255	0° - 120°	
		Framing Macro / 切割宏	
	0 - 10	No function/无	
	11 - 20	Square/正方形	
	21 - 30	rectangle/长方形	

Channel / 通道	DMX	Function / 功能	Note / 备注
25	31 -- 40	Isosceles triangle/等腰三角形	
	41 -- 50	trapezoidal/梯形	
	51 -- 60	The Fan(Facing Up)/扇形 朝上	
	61 -- 70	parallelogram/平行四边形	
	71 --80	Right Angle trapezoid/直角梯形	
	81 --90	The Fan(Down)/扇形 朝上扇形 朝下	
	91 --100	triangle/直角三角形	
	101--110	prismatic/棱形	
	111--120	The stripes/横条	
	121--130	bar/竖条	
	131--140	Upper left quadrant/左上扇形	
	141--150	semicircle (Up) /上半圆	
	151--160	Upper right quadrant/右上扇形	
	161--170	Right semicircle/右半圆	
	171--180	Right lower quadrant/右下扇形	
	181--190	Semicircle (Down) /下半圆	
	191--200	The lower left quadrant/左下扇形	
201--255	Left Semicircle/左半圆		
26		Framing Macro Zoom / 切割宏缩放	
	0 - 255	Framing Macro Zoom/切割宏缩放	
27		Prism / 棱镜	
	0 - 10	Prism Out/棱镜关闭	
	11 - 255	Prism In/棱镜切入	
28		Prism Rotation/ 棱镜自转	
	0	No Function /不在使用范围	
	1--63	0--360° /角度线性调节	
	64-127	Forwards rotation from fast to slow/顺时针自转, 快到慢	
	128-191	Backwards rotation from slow to fast/逆时针自转, 慢到快	
	192-207	from slow to fast 90° Swing/由慢到快, 90° 来回旋转	
	208-223	from slow to fast 180° Swing/由慢到快, 180°来回旋转	
	224-239	from slow to fast 270° Swing/由慢到快, 270°来回旋转	
240-255	from slow to fast 360° Swing/由慢到快, 360°来回旋转		
29		Effect /效果盘	
	0 - 10	Effect Out/效果盘移出	
	11 - 255	Effect In/效果盘切入	
30		Effect Rotation/ 效果盘自转	
	0 - 127	0° - 360°	
	128 - 187	Forwards rotation from fast to slow/顺时针自转, 快到慢	
	188 - 195	STOP	
	196 - 255	Backwards rotation from fast to slow/逆时针自转, 慢到快	
31		No Function /无功能	
	0-255	No Function /无功能	
32		Frost1 / 雾化1	
	0 - 127	Frost From Min To Max /最小雾化到最大雾化	
	128 - 159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160 - 191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
	192 - 255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	
33		Frost2 / 雾化2	
	0 - 127	Frost From Min To Max /最小雾化到最大雾化	
	128 - 159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160 - 191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
	192 - 255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	

Channel / 通道	DMX	Function / 功能	Note / 备注
34		Iris / 光圈	
	0 - 127	From Max To Min/最大光圈到最小光圈	
	128 - 159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160 - 191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
35	192 - 255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	
		Zoom / 缩放	
36	0 - 255	WIDE BEAM→NARROW BEAM/从宽光束过渡到窄光束	
		ZoomFine / 缩放微调	
37	0 - 255	Fine Zoom positioning /放大微调	
		Focus / 调焦	
38	0 - 255	Infinity→near/远到近	
		Focus Fine / 调焦微调	
39	0 - 255	Fine Focus positioning /调焦微动	
		Autofocus Distance / 自动距离	
	0 - 9	NO function	
	10 - 19	5M	
	20 - 29	10M	
	30 - 39	15M	
	40 - 49	20M	
	50 - 59	30M	
60 - 255	40M		
40		Autofocus Adjustment / 自动微调	
	0-255	Auto Focus Fine/自动微调	
41		Strobe / 频闪	
	0-9	No Function/无功能	
	10-49	Opening pulses in sequences from fast to slow /由快到慢, 快开慢关	
	50-89	Closing pulses in sequences from slow to fast 由快到慢, 快关慢开	
	90-119	No Function/无功能	
	120 - 179	Random strobe.slow → fast/随机频闪, 由慢到快	
42	180-255	Strobe.slow → fast/频闪, 由慢到快	
		Dimmer / 亮度	
43	0 - 255	Dimmer from Dark To Bright/调光由暗变亮	
		Dimmer Fine/ 亮度微调	
44	0 - 255	Dimmer Fine/调光微动	
		Gobo Macro /图案宏功能	
	0-255	Gobo Macro Function/图案 宏功能	

## CHANNEL FUNCTION(V1.0)/56CH扩展通道

Channel / 通道	DMX	Function / 功能	Note / 备注
1		Pan/ 水平	
	0-255	Pan movement/positioning	
2		Pan fine/ 水平微调	
	0-255	Fine Pan positioning	
3		TILT / 垂直	
	0-255	Tilt movement/positioning	
4		TILT fine / 垂直微调	
	0-255	Fine Tilt movement/positioning	
5		PAN TILT Speed / 水平 垂直速度调节	
	0-255	Pan Tilt movement Speed From Fast To Slow / 水平垂直速度调节由快到慢	
6		Functions / 功能	
	0 - 10	NO function/无功能	
	11 - 20	All Reset/所有功能复位	
	21 - 30	XY Reset /XY复位	
	31 - 40	Color System Reset / 颜色系统复位	
	41 - 50	Gobo System Reset / 图案系统复位	
	51 - 60	Profile System Reset / 切割系统复位	
	61 - 70	Focus System Reset / 调焦系统复位	
	71 - 80	Silent Mode / 静音模式	
	81 - 90	Standard Mode / 标准模式	
	91 - 100	Hot Mode / 高亮模式	
	101 - 110	NO function / 无功能	
	111 - 120	NO function / 无功能	
	121 - 130	NO function / 无功能	
	131 - 140	NO function / 无功能	
	141 - 150	NO function / 无功能	
	151 - 160	NO function / 无功能	
	161 - 170	NO function / 无功能	
	171 - 180	Display Back light is always bright/显示背光亮	
	181 - 190	Display Back light is Auto/显示背光自动	
191 - 200	function Open /功能打开		
201 - 255	NO function /无功能		
7		Cyan / 青色	
	0-255	White→full cyan/白光→青	
8		Cyan Fine/ 青色微调	
	0-255	Cyan Fine movement/positioning/青色微调	
9		Magenta / 品红	
	0-255	White → full magenta/白光 → 品红	
10		Magenta Fine / 品红 微调	
	0-255	Magenta Fine movement/positioning/品红微调	
11		Yellow / 黄色	
	0-255	White→ full yellow/白光→黄	
12		Yellow Fine / 黄色微调	
	0-255	Yellow Fine movement/positioning/黄色微调	
13		CTO / 降色温	
	0-255	Color Temperature from Deep to mall/色温由高到低	
14		CTO Fine / 降色温微调	
	0-255	CTO Fine movement/positioning/降色温微调	
15		Colour wheel / 色盘	
	0 - 89	0 - 360°	
	90 - 104	OPEN	
	105 - 119	COLOR1	
	120 - 134	COLOR2	
	135 - 149	COLOR3	
	150 - 164	COLOR4	
	165 - 179	COLOR5	
	180 - 214	Forwards Color rotation from slow to fast/顺时针自转, 慢到快	
	215 - 249	Backwards Color rotation from fast to slow/逆时针自转, 快到慢	
	250 - 255	随机颜色	
		Gobo1 / 图案1	
	0 - 9	Open	
	10-19	GOB01	
	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	

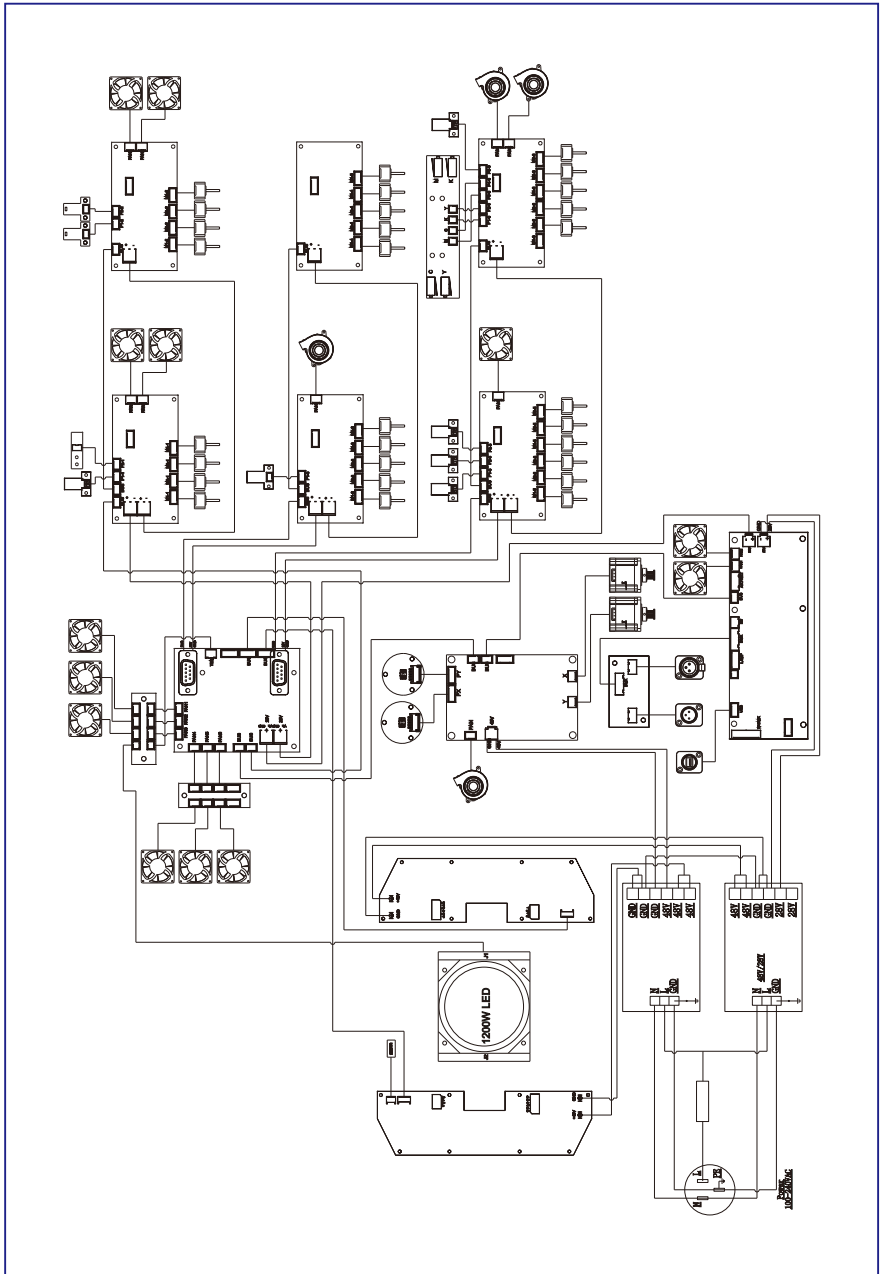
Channel / 通道	DMX	Function / 功能	Note / 备注
16	50-59	G0B05	
	60-69	G0B06	
	70-79	Gobo 1 shake slow to fast/ G0B01 抖动, 慢到快	
	80-89	Gobo 2 shake slow to fast/G0B02 抖动, 慢到快	
	90-99	Gobo 3 shake slow to fast/G0B03 抖动, 慢到快	
	100-109	Gobo 4 shake slow to fast/G0B04 抖动, 慢到快	
	110-119	Gobo 5 shake slow to fast/G0B05 抖动, 慢到快	
	120-129	Gobo 6 shake slow to fast/G0B06 抖动, 慢到快	
	130-139	OPEN/大圆	
	140-194	Forwards gobo rotation from slow to fast/顺时针自转, 慢到快	
	195-249	Backwards gobo rotation from fast to slow/逆时针自转, 快到慢	
250-255	Random Gobo/随机图案		
17		Gobo1 Rotation / 图案1旋转	
	0-127	0° - 360°	
	128-187	Forwards gobo rotation from fast to slow/顺时针自转, 快到慢	
	188-195	Gobo rotation stop/旋转停止	
	196-255	Backwards gobo rotation from slow to fast/逆时针自转, 慢到快	
18		Gobo2 / 图案2	
	0-9	Open	
	10-19	G0B01	
	20-29	G0B02	
	30-39	G0B03	
	40-49	G0B04	
	50-59	G0B05	
	60-69	G0B06	
	70-79	Gobo 1 shake slow to fast/ G0B01 抖动, 慢到快	
	80-89	Gobo 2 shake slow to fast/G0B02 抖动, 慢到快	
	90-99	Gobo 3 shake slow to fast/G0B03 抖动, 慢到快	
	100-109	Gobo 4 shake slow to fast/G0B04 抖动, 慢到快	
	110-119	Gobo 5 shake slow to fast/G0B05 抖动, 慢到快	
	120-129	Gobo 6 shake slow to fast/G0B06 抖动, 慢到快	
	130-139	OPEN/大圆	
	140-194	Forwards gobo rotation from slow to fast/顺时针自转, 慢到快	
	195-249	Backwards gobo rotation from fast to slow/逆时针自转, 快到慢	
250-255	Random Gobo/随机图案		
19		Gobo2 Rotation / 图案2旋转	
	0-127	0° - 360°	
	128-187	Forwards gobo rotation from fast to slow/顺时针自转, 快到慢	
	188-195	Gobo rotation stop/旋转停止	
	196-255	Backwards gobo rotation from slow to fast/逆时针自转, 慢到快	
20		Blade UP1 / 叶片上1	
	0-255	Blade Out→In/切割片从打开过渡到切入	
21		Blade UP1 Fine / 叶片上1微调	
	0-255	Fine Blade positioning /切割片微调	
22		Blade UP2 / 叶片上2	
	0-255	Blade Out→In/切割片从打开过渡到切入	
23		Blade UP2 Fine/ 叶片上2微调	
	0-255	Fine Blade positioning /切割片微调	
24		Blade DW1 / 叶片下1	
	0-255	Blade Out→In/切割片从打开过渡到切入	
25		Blade DW1 Fine/ 叶片下1微调	
	0-255	Fine Blade positioning /切割片微调	
26		Blade DW2 / 叶片下2	
	0-255	Blade Out→In/切割片从打开过渡到切入	
27		Blade DW2 Fine / 叶片下2微调	
	0-255	Fine Blade positioning /切割片微调	
28		Blade LF1 / 叶片左1	
	0-255	Blade Out→In/切割片从打开过渡到切入	
29		Blade LF1 Fine / 叶片左1微调	
	0-255	Fine Blade positioning /切割片微调	
30		Blade LF2 / 叶片左2	
	0-255	Blade Out→In/切割片从打开过渡到切入	
31		Blade LF2 Fine/ 叶片左2微调	

Channel /通道	DMX	Function /功能	Note /备注
	0-255	Fine Blade positioning /切割片微动	
32		Blade RF1 / 叶片右1	
	0-255	Blade Out→In/切割片从打开过渡到切入	
33		Blade RF1 Fine/ 叶片右1微调	
	0-255	Fine Blade positioning /切割片微动	
34		Blade RF2 / 叶片右2	
	0-255	Blade Out→In/切割片从打开过渡到切入	
35		Blade RF2 Fine/ 叶片右2微调	
	0-255	Fine Blade positioning /切割片微动	
36		Framing Rotation / 切割旋转	
	0-255	0° - 90°	
37		Framing Macro / 切割宏	
	0-10	No function/无	
	11-20	Square/正方形	
	21-30	rectangle/长方形	
	31-40	Isosceles triangle/等腰三角形	
	41-50	trapezoidal/梯形	
	51-60	The Fan(Facing Up)/扇形 朝上	
	61-70	parallelogram/平行四边形	
	71-80	Right Angle trapezoid/直角梯形	
	81-90	The Fan(Down)/扇形 朝上扇形 朝下	
	91-100	triangle/直角三角形	
	101-110	prismatic/棱形	
	111-120	The stripes/横条	
	121-130	bar/竖条	
	131-140	Upper left quadrant/左上扇形	
	141-150	semicircle (Up) /上半圆	
	151-160	Upper right quadrant/右上扇形	
	161-170	Right semicircle/右半圆	
	171-180	Right lower quadrant/右下扇形	
	181-190	Semicircle (Down) /下半圆	
191-200	The lower left quadrant/左下扇形		
201-255	Left Semicircle/左半圆		
38		Framing Macro Zoom / 切割宏缩放	
	0-255	Framing Macro Zoom/切割宏缩放	
39		Prism / 棱镜	
	0-10	Prism Out/棱镜关闭	
	11-255	Prism In/棱镜切入	
40		Prism Rotation/ 棱镜自转	
	0	No Function /不在使用范围	
	1-63	0-360° /角度线性调节	
	64-127	Forwards rotation from fast to slow/顺时针自转, 快到慢	
	128-191	Backwards rotation from slow to fast/逆时针自转, 慢到快	
	192-207	from slow to fast 90° Swing/由慢到快, 90° 来回旋转	
	208-223	from slow to fast 180° Swing/由慢到快, 180° 来回旋转	
	224-239	from slow to fast 270° Swing/由慢到快, 270° 来回旋转	
240-255	from slow to fast 360° Swing/由慢到快, 360° 来回旋转		
41		Effect /效果盘	
	0-10	Effect Out/效果盘移出	
	11-255	Effect In/效果盘切入	
42		Effect Rotation/ 效果盘自转	
	0-127	0° - 360°	
	128-187	Forwards rotation from fast to slow/顺时针自转, 快到慢	
	188-195	STOP	
	196-255	Backwards rotation from fast to slow/逆时针自转, 慢到快	
43		No Function/无功能	
	0-255	No Function /无功能	
44		Frost1 / 雾化1	
	0-127	Frost From Min To Max /最小雾化到最大雾化	
	128-159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160-191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
	192-255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	
		Frost2 / 雾化2	



Channel / 通道	DMX	Function / 功能	Note / 备注
45	0 - 127	Frost From Min To Max / 最小雾化到最大雾化	
	128 - 159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160 - 191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
	192 - 255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	
46		Iris / 光圈	
	0 - 127	From Max To Min/最大光圈到最小光圈	
	128 - 159	Slow In Fast Out from slow to fast/慢进快出 从慢到快	
	160 - 191	Fast In Slow Out from slow to fast/快进慢出 从慢到快	
	192 - 255	Slow In Slow Out from slow to fast/慢进慢出 从慢到快	
47		Zoom / 缩放	
	0 - 255	WIDE BEAM→NARROW BEAM/从宽光束过渡到窄光束	
48		ZoomFine / 缩放微调	
	0 - 255	Fine Zoom positioning / 放大微调	
49		Focus / 调焦	
	0 - 255	Infinity→near/远到近	
50		Focus Fine / 调焦微调	
	0 - 255	Fine Focus positioning / 调焦微动	
			Autofocus Distance / 自动距离
51	0 - 9	No function	
	10 - 19	5M	
	20 - 29	10M	
	30 - 39	15M	
	40 - 49	20M	
	50 - 59	30M	
	60 - 255	40M	
52		Autofocus Adjustment / 自动微调	
	0-255	Auto Focus Fine/自动微调	
53		Strobe / 频闪	
	0-9	No Function/无功能	
	10-49	Opening pulses in sequences from fast to slow / 由快到慢, 快开慢关	
	50-89	Closing pulses in sequences from slow to fast 由快到慢, 快关慢开	
	90-119	No Function/无功能	
	120 - 179	Random strobe,slow → fast/随机频闪, 由慢到快	
	180-255	Strobe,slow → fast/频闪, 由慢到快	
54		Dimmer / 亮度	
	0 - 255	Dimmer from Dark To Bright/调光由暗变亮	
55		Dimmer Fine/ 亮度微调	
	0 - 255	Dimmer Fine/调光微动	
56		Gobo Macro / 图案宏功能	
	0-255	Gobo Macro Function/图案 宏功能	

CIRCUIT CONNECTING DIAGRAM/电器连接图



**CLEANING AND MAINTENANCES/清洁与保养**

- 1. In order to ensure the fixture could work normally. It should be kept clean always .

The lens should also be regularly cleaned to maintain an optimum light output.

Do not use any type of solvent on lens. It will damage the fixture.

确保灯具能够正常稳定的运行，应该保持灯具的清洁，对于镜头也应定期清理，以保证最佳的光线效果。在清洁时注意不要使用任何溶解清洁剂，以免对灯具造成损害。

- 2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.

The fixture power ON time is best not over 48 hours, or it would generate lamp protection procedure.

建议：灯具持续使用时建议每次不要超过4小时，否则会大缩短灯具的使用寿命，可采用轮休息法解决上述问题。建议灯具连续通电时间不要超过48小时。

- 3. Please disconnect the power supply when begin to maintenance take down the fixture.

Please let the parts cool down 10 minute at least then begin to install.

灯具在进行维护拆卸之前，一定要断开电源的连接，不能带电操作。

- 4. Please inspect the lens or other moving parts timing and keep them clear and static.

If find anything damaged or looseness must change a lamp or fix the lamp in order to avoid the accident.

灯具的调焦镜头或转动件必须定期检查，使其保持清洁和它的稳定性，如果出现明显的损坏或松动，必须及时对其进行更换或加固，以防发生意外事故。

Please check the machanical parts is jamging. After cleaning, please add some temperature -durable juice.

检查调焦系统的机械部分是否卡住，去尘埃后添加防冻和耐温润滑油。

- 5. The fixture use the strong cool system. It is easy for the dirty to be collected. Please do clear the hot-sak one time two week at least.

灯具产品采用风机制冷，容易积尘，请每两周至少清洁一次，尤其是散热进出风口。

- 6. After you use the fixture, please check the intake place whether there are some wastepaper, please clean it up, or the windmill will break down and causing fire.

灯具在有彩纸表演后，要检查进出风口处是否卡有或吸入纸屑，并清除赶紧，否则易损坏风机或引发火警隐患

**CAUTION!注意!**

**Disconnect from mains before starting maintenance operation.**

**在进行保养维护之前请断开电源!**

## TROUBLESHOOTING/疑难处理

It is recommended some solution for some normal trouble shooting. Any inextricability problems should always be handling by the professional person. Disconnect the power supply before maintenance the fixture.

### ■ LED off / LED不亮:

- ◎ Please check if install the suitable voltage  
检查是否安装了与灯具相匹配的电压;
- ◎ Please check whether the led will reach the end of their life can explode; please replace a same description led.  
检查灯具供电电源连接处或控制开关是否接触不良;
- ◎ Please check if the power supply is enough.  
检查电力供应是否不足;
- ◎ Please check whether the DMX 512 controller pass the "turn on" order.  
检查DMX512控制器是否发送了指令。

### ■ The fixture couldn't accept the control order:

灯具不接受控制器的指令:

- ◎ Please check the start code address and the function option are correct.  
检查灯具数字启动地址数值和功能选项是否正确;
- ◎ Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.  
检查通讯控制线路的连接情况是否正确、通讯线路过长或已经中断;
- ◎ Please check the control system is not valid, check the signal amplifier of chain connected is valid. 检查控制设备是否失效, 检查串连接入的信号放大器是否失效;
- ◎ Please check whether the communicate cable is too long or the other equipment is mutually conjugate. 检查通讯线路是否过长或有其它设备相互干扰;
- ◎ Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.  
优化布线, 缩短控制信号线的长度, 高压与低压线路分开布线;
- ◎ Add the signal amplify isolator. 添加信号放大隔离器;
- ◎ Signal cable is used the excellent screening doublet (Resistance 75 OHM)  
信号线采用优质屏蔽双绞线(阻抗特性为75欧姆);
- ◎ The end of the light end and the end resistance.  
在灯具末端连接信号终端电阻。

### ■ The fixture can't move/灯具不能启动:

- ◎ Please check if the power supply is suitable for the light voltage data.  
检查供电电源参数是否与灯具相符;
- ◎ Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.  
检查灯具在长途运输过程中因挤压变形、内部零件震动、潮湿等原因, 而导致接触不良或脱落。
- ◎ Please check the if the inside lead wire and the connector is loose.  
请检查灯具内部导线积接插件是否脱落、松动。
- ◎ Please check the electric parts(such as the transformer,PCB board,contrller) is short-circuit or burn down.  
检查灯具电子元器件(如电子变压器、PCB板、电机控制板等)是否有松动、短路和烧坏现象。

- The light beam dark, not inhomogeneous. 光束显得暗淡不均匀。
  - ◎ when the light source is to the usage life, the light source is not enough, please change a new one for the same description.  
光源可能已经达到使用寿命, 发光不足, 更换同规格的光源。
  - ◎ Please check the reflector parts is dirty. Keep them clear.  
检查光学部分是否堆积有灰尘, 清洗干净。
  - ◎ Please measure if the power supply is enough.  
测量电力是否供应不足;
  - ◎ Enter the menu "service options" to choose "calibration" to enter the "Color" and "Gobo" adjustment, the center can be modulated.  
进入菜单“服务选项”选择“校准”进入颜色和图案调节, 可调至中心。
  
- The fixture shadow is fogging. 投射出来的影像模糊。
  - ◎ Please check the data on the DMX 512 controller is suitable for the electric focus.  
检查电子对焦系统对应的DMX512控制器通道数值是否合适现在的投射距离。
  - ◎ Please check the mechanical parts is jamming. After cleaning, please add some temperature -durable grease.  
检查调焦系统的机械部分是否卡住, 去尘埃后添加防冻和耐高温润滑油。
  
- Part of the fixture couldn't respond to the controlling order:  
灯具部分功能不能接受控制器指令:
  - ◎ Please check the order is correct to the moving .  
检查控制设备是否发送了对这些功能的正确动作指令;
  - ◎ Please check the mechanical part is deformation or loose.  
检查这些功能对应的机械部分, 是否松动变形;
  - ◎ Please check the function to the motor socket is loose or drive chip is burn down;  
检查这些功能对应的电机插座是否有松动或相应驱动芯片已烧坏;
  - ◎ Please check the wire of the motor is cut at zig point;  
检查这些功能对应的电机电线在转弯处是否折断;
  - ◎ Please check these function to the motor is damaged.  
检查这些功能对应的电机是否损坏。

## DUTY EXONERATIVE AND COPYRIGHT PROTECTION

- The light source belongs to consumption products that is not guarantee to keep it in good repair.  
灯泡属于消耗产品,不在保修范围内。
- ny products broken that didn't according to the instruction is not guarantee to keep it in good repair.  
未按照本说明书操作而导致灯具损坏,生产商不承担任何责任。
- The commentary for all the instruction belongs to the supplier in final  
本说明书上所有信息的最终解释权归生产厂家。
- No authorize can't copy.  
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the right to change the data without any advise.  
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