

Guangzhou Jin Ming Yuan stage lighting equipment Co., Ltd.

LED300W 3in1 Moving Head Beam Light



Instruction manual

(Please read the instructions carefully before use)

Precautions and installation

● Maintenance

- This lamp should be kept dry and avoid working in damp environment.
- The intermittent use will effectively prolong the service life of this luminaire.
- In order to obtain good ventilation effect and lighting effect, pay attention to frequent cleaning of fans and fan nets and lenses.
- Please do not use the organic solvents such as alcohol to wipe the shell of the lamp to avoid damage.

Statement

This product has good performance and complete package when it is released from factory. All users shall strictly observe the warning and operation instructions stated above. Any damage caused by misuse is not within the warranty of the company, and the failures and problems caused by neglecting the operating manual are not in the responsibility of the distributor.

This manual is subject to technical changes without prior notice.

● Notice of product

- **In order to ensure the service life of the product, the product should not be placed in damp or leaking places, and can not work in the environment with a temperature above 60 degrees.**
- **Do not place this product in loose or vibrant places.**
- **To avoid danger of electric shock, please repair the product for professional maintenance.**
- **When the bulb is used, the supply voltage should not exceed 10%. If the voltage is too high, the life of the bulb will be shortened. If the voltage is too low, the light color of the bulb will be affected.**

- **After power failure, it will take 20 minutes to fully cool the lamp before it can be energized again.**
- **In order to ensure the normal use of this product, please read the instructions carefully.**

1. Product parameters:

LED 300W pattern head light

Light source: 300W LED imported high brightness white light module

Power: 600W

Power: AC90-240V 50-60Hz

Color temperature: 6800K

Lamp life: 50000 hours

Spot angle: 4 degree - 38 degrees

Control channel: 16/24 channel

Control mode: DMX512, master-slave, sound control, self walk

X/Y scan: level: 540 degrees, vertical: 270 degrees

Color: a color disc, 7 color plates + pure white light, a seven color color, can make rainbow effect.

Pattern: two pattern plate with an effect pattern plate, rotating pattern disc 7 pluggable rotating glass pattern with 3D pattern effect, fixed pattern plate 7 patterns plus white light,

Dimming: 0-100% linear dimming,

Strobe: synchronous pulse stroboscopic, random pulse stroboscopic

Prism disc: 3 prism,

Display: color LCD display, display in Chinese and English, reversible display.

High efficiency heat pipe cooling system, no risk of lamp damage.

2. Signal line connection (DMX)

Use the RS-485 cable that meets the specifications: shielding, 120ohm characteristic impedance, 22-24 AWG, low capacitance reactance. Do not use microphone cables or cables with different characteristics. Terminals must be connected with 3 or 5 pin XLR type male / female connectors. A 120ohm impedance matching resistor (minimum 1 / 4 W) must be inserted between terminals 2 and 3 of the terminal plug.

Important note: lines can not be contacted or contacted with metal shells.

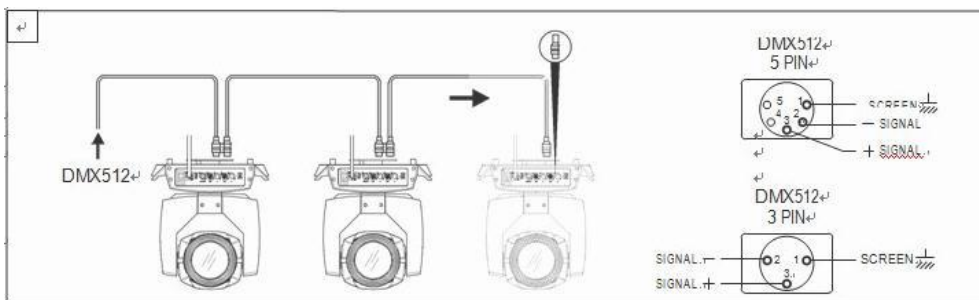


Figure 1 DMX signal line connection diagram

3. Installation of lamps and lanterns

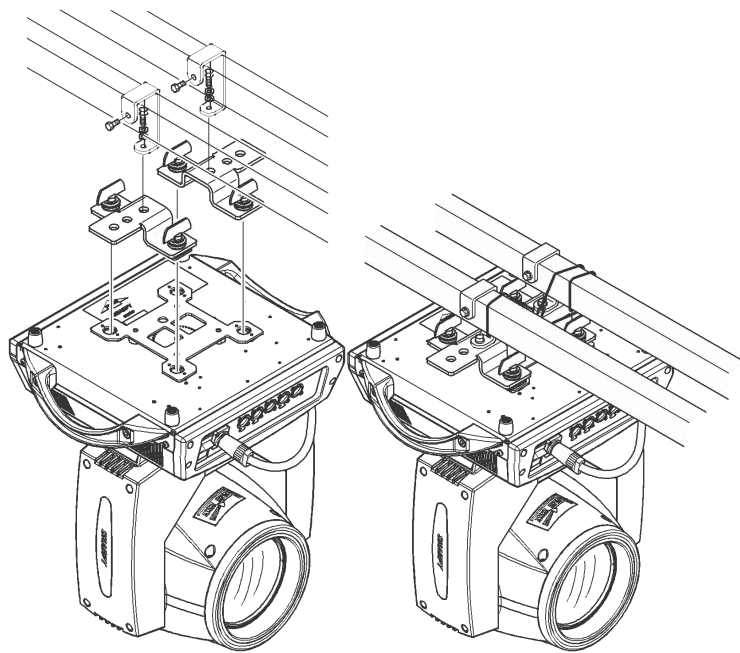
The lamps can be placed horizontally, slant and upside down. It is necessary to pay attention to the installation method when it is slant and upside down.

As shown in Figure 2, before positioning the lamp, to ensure the stability of the installation location, when the reverse hanger is installed, the lamp must be ensured not to fall down on the support frame, and the safety rope needs to be hung through the

support frame and the lantern handle to ensure safety and prevent the falling and sliding of the lamps.

When the luminaire is installed and tested, pedestrians are prohibited from passing through it. Regular checks are made on whether the safety ropes are worn out and whether the hook screws are loose.

If the hanging installation is not stable, resulting in all the consequences of the fall of lamps, I do not assume any responsibility.



4. Display board menu operation instructions

1	DMX Address	001-512		DMX 地址设置	001-512	
2	Sys set	DMX Mode	Simple mode 20CH	灯具设置	通道	简易通道模式 20 CH
			Standard mode 24CH			标准通道模式 24 CH
		Pan Inverse	No		水平反转	水平不反转
			OFF			水平反转
		Tilt Inverse	No		垂直反转	垂直不反转
			OFF			垂直反转

		Run mode	DMX
			Auto
		Backlight	60S
			Always
		Save	
		Exit	
3	Manual	Pan	0-255
		Pan Fine	0-255
		Tilt	0-255
		Tilt Fine	0-255
		Pan Tilt Speed	0-255
		function	0-255
		Shutter	0-255
		Dimmer	0-255
		Color	0-255
		Color Fine	0-255
		Static Gobol	0-255
		Static Gobo2	0-255
		Gobo 3	0-255
		Prism	0-255
		Prism Rot	0-255
		Focus	0-255
		Focus Fine	0-255
		Zoom	0-255
		Frost	0-255
		7Colors	0-255
		Exit	
4	Infor		
5	Factory	Passwords 158	
6	Reset	Reset pan&Tilt	
		Reset Effect	
		Reset All	
		EXIT	
7	Display	Language	Chinese
			English
		Disolay flip	YES
			NO
		touch calibration	
		EXIT	

		运行模式	DMX
			自动
		显示模式	60 秒
			常亮
		保存	
		退出	
3	手动设置	水平	0-255
		水平微调	0-255
		垂直	0-255
		垂直微调	0-255
		水平垂直速度	0-255
		功能	0-255
		Stroboscopic	0-255
		调光	0-255
		颜色	0-255
		颜色微调	0-255
		固图 1	0-255
		固图 2	0-255
		旋转图案	0-255
		棱镜盘 1	0-255
		棱镜 1 自转	0-255
		调焦	0-255
		调焦微调	0-255
		enlarge	0-255
		雾化	0-255
		七彩	0-255
		退出	
	灯具信息		
	工厂设置	密码 158	
	灯具复位	水平垂直复位	
		效果复位	
		全部复位	
		退出	
	显示设置	语言设置	中文
			英文
		显示翻转	是
			否
		触摸校准	
		退出	

5. Channel parameters

标准模式 (24通道)	精简模式 (20通道)	DMX 值	通道功能	
Standard mode	Simple mode	DMX Value	Function	
1	1	0-255	Pan	X 轴
2	2	0-255	Pan Low	X 轴微调
3	3	0-255	Tilt	Y 轴
4	4	0-255	Tilt Low	Y 轴微调
5	5	0-255	P/T Speed	X Y 轴调速
6	6		Macro function	宏功能
		0-19	Empty	空
		20-24	Empty	空
		25-29	Empty	空
		30-99	Empty	空
		100-120	Empty	空
		130-150	X Y axis reset	X Y 轴复位
		160-180	Effect reduction	效果复位
		190-210	Reset of lamps and lanterns	灯具复位

		220-240	Empty	空
		241-255	Empty	空
7	7		Shutter	频闪
		0-3	Closed	闭光
		4-103	SLOW - FAST	频闪由慢到快
		104-107	Open	开光
		108-207	FAST STROBE-SLOW STROBE	脉冲频闪由慢到快
		208-212	Open	开光
		213-251	RANDOM SLOW - FAST	随机频闪, 频率由慢到快
		252-255	Open	开光
8	8		Dimmer	调光
		0-255	Linear Dimmer	线性调光
9	9		Macro Colour	颜色宏
		0-9	white	白光
		10-19	Colour 1	颜色 1
		20-29	Colour 2	颜色 2

		30-39	Colour 3	颜色 3
		40-49	Colour 4	颜色 4
		50-59	Colour 5	颜色 5
		60-69	Colour 6	颜色 6
		70-79	Colour 7	颜色 7
		80-89	Colour 8	颜色 8
		90-99	Colour 9	颜色 9
		100-109	Colour 10	颜色 10
		110-119	Colour 11	颜色 11
		120-129	Colour 12	颜色 12
		130-139	Colour 13	颜色 13
		140-149	Colour 14	颜色 14
		150-159	Colour 15	颜色 15
		160-169	Colour 16	颜色 16
		170-255	FAST ROTATION – SLOW ROTATION	顺时针流水慢到快
10	*		Color Fine	颜色微调

		0-255	Linear	线性
11	10		Gobo 1	固图
		0-9	white	白光
		10-19	Gobo1	图案 1
		20-29	Gobo2	图案 2
		30-39	Gobo3	图案 3
		40-49	Gobo4	图案 4
		50-59	Gobo5	图案 5
		60-69	Gobo6	图案 6
		70-79	Gobo7	图案 7
		80-89	Gobo8	图案 8
		90-112	FAST ROTATION - SLOW ROTATION	顺时针流水快到慢
		113-120	STOP	停止
		121-143	SLOW ROTATION - FAST ROTATION	逆时针流水慢到快
		144-157	Gobo 1 Jitter	图案 1 抖动
		158-171	Gobo 2 Jitter	图案 2 抖动

		172-185	Gobo 3 Jitter	图案 3 抖动
		186-199	Gobo 4 Jitter	图案 4 抖动
		200-213	Gobo 5 Jitter	图案 5 抖动
		214-227	Gobo 6 Jitter	图案 6 抖动
		228-241	Gobo 7 Jitter	图案 7 抖动
		242-255	Gobo 8 Jitter	图案 8 抖动
			EFF Gobo	效果图案盘
12	11	0-4	white	白光
		5-84	Gobo1-Gobo3	线性
		85-89	white	白光
		90-119	Gobo 1 Jitter	图案 1 抖动
		120-149	Gobo 2 Jitter	图案 2 抖动
		150-179	Gobo 3 Jitter	图案 3 抖动
		180-214	FAST ROTATION - SLOW ROTATION	顺时针流水快到慢
		215-220	STOP	停止
		221-255	SLOW ROTATION - FAST ROTATION	逆时针流水慢到快

13	12		Gobo 2	旋转图案
		0-9	white	白光
		10-19	Gobo 1	图案 1
		20-29	Gobo 2	图案 2
		30-39	Gobo 3	图案 3
		40-49	Gobo 4	图案 4
		50-59	Gobo 5	图案 5
		60-69	Gobo 6	图案 6
		70-79	Gobo 7	图案 7
		80-129	FAST ROTATION - SLOW ROTATION	顺时针流水快到慢
		130-135	STOP	停止
		136-185	SLOW ROTATION - FAST ROTATION	逆时针流水慢到快
		186-195	Gobo 1 Jitter	图案 1 抖动
		196-205	Gobo 2 Jitter	图案 2 抖动
		206-215	Gobo 3 Jitter	图案 3 抖动
		216-225	Gobo 4 Jitter	图案 4 抖动

		226-235	Gobo 5 Jitter	图案 5 抖动
		236-245	Gobo 6 Jitter	图案 6 抖动
		246-255	Gobo 7 Jitter	图案 7 抖动
14	13		Gobo2/Rot	图案自转
		0-63	Rotation	索引定位
		64-126	FAST ROTATION - SLOW ROTATION	逆时针由快到慢流水
		127-128	STOP	停止
		129-191	SLOW ROTATION - FAST ROTATION	顺时针由慢到快流水
		192-193	STOP	停止
		194-255	SLOW ROTATION /FAST ROTATION	正反转由慢到快
15	*	0-255	Gobo2/Rot Fine	图案 2 自转微调
16	14		Prism	棱镜
		0-127	Reserve	无棱镜
		128-255	prism1	棱镜
17	15		Prism-1 Rot	棱镜自转
		0-63	Rotation	索引

		64-126	FAST ROTATION - SLOW ROTATION	逆时针由快到慢流水
		127-128	STOP	停止
		129-191	SLOW ROTATION - FAST ROTATION	顺时针由慢到快流水
		192-193	STOP	停止
		194-255	SLOW ROTATION - FAST ROTATION	正反转由慢到快
18	*		Prism Rotation Fine	棱镜盘自转微调
		0-255	Linear	线性
19	16		Iris	光圈
		0-134	Linear	线性
		135-164	FAST ROTATION - SLOW ROTATION	快开慢关
		165-194	SLOW ROTATION - FAST ROTATION	快关慢开
		195-224	EFF1	雨滴效果
		225-255	EFF2	随机雨滴
20	17		Frost	雾化
		0-127	white	白光
		128-255	Frost	雾化

21	18		7 Colour	七彩
		0-255	7 Colour	七彩, 线性
22	19		Foucs	调焦
		0-255	Foucs	调焦, 线性
23	*		Foucs Fine	调焦微调
		0-255	Foucs Fine	调焦微调, 线性
24	20		Zoom	放大
		0-127	Reserve	无放大
		128-255	Zoom	放大

● 6. Common failures and attention to use

● 1. common troubleshooting

● The lamps and lanterns contain specialized components such as PCB, high voltage power and so on. For your safety and product life, non professionals should not disassemble the lamps and accessories without authorization.

● 1. light bulbs are not bright

● Possible cause: the bulb is not completely cooled or the bulb reaches its life.

- **Because of abnormal operation, the light bulb is not completely cooled, the lamp body should be cooled for more than 10 minutes, so that the interior of the lamp is fully restored to normal, and then the power supply can be restarted again.**
- **To check whether the bulb reaches service life, new bulbs should be replaced.**
- **Check whether the line of bulb and lamp is leak, fall off or contact poorly.**
- **Change the new lighting device.**
- **The 2. beams are dim**
- **Possible reasons: light bulbs are used for a long time or the light path is not clean.**
- **To check whether the bulb reaches service life, new bulbs should be replaced.**
- **Check whether the optical components or light bulbs are clean, and whether there is dust on the light bulbs and other optical devices, it is necessary to regularly clean and maintain the light bulb and the components in the lamps and lanterns.**

- **3. pattern projection blur**
- **Check whether the value of the electronic focus channel is suitable for the projection distance now.**
- **4. the lamps and lanterns work intermittently**
- **The reason is: the internal line is protected.**
- **Check whether the fan operates normally or whether it is dirty or not, causing the interior temperature of the luminaire to rise.**
- **Check whether the internal temperature control switch is closed.**
- **Check whether the bulb is in service life and replace the new bulb.**
- **5. control table is not controlled after normal reset**
- **Possible reasons: signal line failure or lamp parameter settings are abnormal.**
- **Check the initial address code and check the connection of the DMX signal line (whether the signal wire and cable are intact, and whether the connection is loose).**
- **Add signal amplifier, plus 120 ohmic terminal**

resistance;

- **6. light fixtures can not start**
- **The reason is that the power supply line is bad.**
- **Check whether the fuse on the power input socket is fusible and replace the insurance.**
- **Lamps cause poor contact in long distance transportation due to vibration.**
- **Check the input power supply, computer board and other plug - in devices.**

1. use of attention

- Check whether the local power supply meets the rated voltage requirements of the product, and the leakage protector and overcurrent protector meet the load requirements.
- Please do not use insulated conductor which has been damaged.
- The lamps and lanterns use strong wind refrigeration, easy to accumulate dust, it must be cleaned once a month, especially the heat dissipation tuyere, otherwise the dust will be blocked, resulting in bad heat dissipation and abnormal luminaires.
- When fixing the luminaire, the fastening screws must be fastened and equipped with safety cables and checked regularly.
- In the installation and positioning of the lamps and lanterns, any point on the surface of the lamp and any easy to burn explosive, keep the minimum distance of 10 meters and the distance of 2.5 meters from the illuminant, please do not install the lamp directly on the surface of the combustible material.
- The continuous working time of lamps and lanterns should not be more than 10 hours, the interval of continuous starting lamps should not be less than 10 minutes, otherwise it will not be triggered normally because of the protection of the light bulb.
- The closing time of using on-off valve should not exceed 5 minutes. If you need to shut down the light for a long time, you should use the console (light control channel) to turn off the light bulb.
- In order to ensure that many lamps and lanterns comply with the effect of the scene better, the lamps should not always be in the unfinished scene, that is, start the next scene action, it is best not more than 3 minutes to ensure that multiple lamps can run synchronously.
- During the process of use, if lamps and lanterns are abnormal, they should stop using lamps in time to prevent other faults.

