LIGHT SKY®

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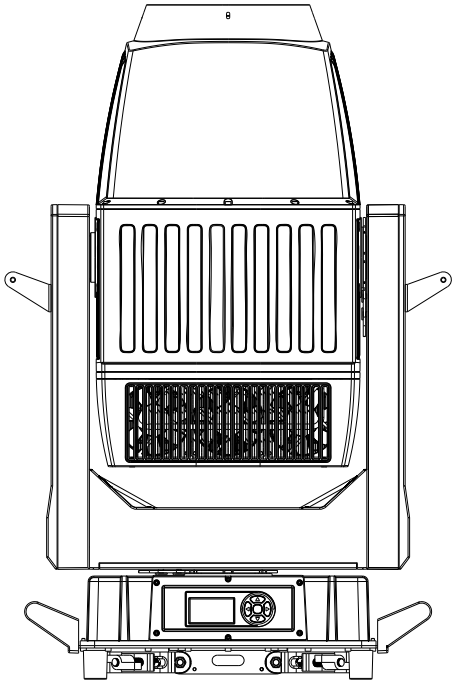
FLY DRAGON LIGHTING EQUIPMENT CO.,LTD



SHARK PROFILE

USER MANUAL

Please read these user manual carefully before use!

Contents

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.

SAFETY INFORMATION

■This lighting fixture is for professional use only - it is not for household use.

■Installation

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 prgperly 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.

■Mounting surface and fire protection

Please do not install the fixture onto combustible surface.

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

Ensure a minimum clearance of 0. 2m around the cooling fans and ventilation.

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.

■Maximum ambient temperature

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

■Protection against electrical shock

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.

■Connection to mains supply

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.

■**Y type connection**

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.

tc 80 ℃

■**Temperature of the external surface**

The maximun temperature that can be reached on the external surface of the fitting, in a thermally steady state,is 80℃。

Avoid contact bypersons and materials.

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

■**Maintenance**

Before starting any maintenance work or cleaning the luminaire, the power supply to the luminaire must be disconnected.

■**Light**

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.

■**Protection against explosion**

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。

■**Protection optical radiation**

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

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

CE

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

TECHNICAL INFORMATION

●ELECTRICAL SPECIFICATIONS AND CONNECTIONS

- **Power supplies available** ： AC100-240V，50/60Hz
- **Rated power**： 1530W（110V：maximum current 15.3A；220V：maximum current 7.65A）
- **Power factor**：PF 0.985
- **Power connector**：PG power
- **DMX and RDM data in/out** ： 3-pin XLR seat (5-pin XLR seat is optional)

●LIGHT SOURCE

- **Light source**：1200W LED light engine；
- **Median Lifetime**：20000h
- **Luminous Flux**：86000 lm
- **Light source CCT**：8000 K

●LAMPS

- **Fixture total lumen output**: Reachable 50700 lm ;
- **CCT Light output**: 6800 K;
- **CRI**:>70
- **CRI color developing film**: can be increased to above 88;

●OPTICAL SYSTEM

- **Output lens Diameter**: φ186mm
- **Zoom Angle** ：6°～ 50°(Zoom ratio 8.3 ：1）
- **Light Output**:Reachable:29000 lux@10m

(The illumination can reach 18300 lux@10m after cutting into the display finger)

●DYNAMIC EFFECT

- **Prism** ： 1 quadrangular prism that can be rotated in both directions
- **Atomization** ： Two high-transmittance atomizing sheets (light atomization, heavy atomization) that can be cut in and superimposed respectively, can effectively improve the brightness of the cut-in atomization mode.
- **The Aperture** ：5-100% linearly adjustable with macro.
- **Framing Shutters System** ：4 cutting blades, 8 positions are independently controlled, and the entire cutting frame can be rotated 90 degrees.
- **Rotating Gobo Wheel**： Double rotating pattern discs, each disc has 6 quick-change glass patterns, the pattern is made of high temperature resistant glass, and the pattern superposition and combination effect is excellent.
- **Gobos Size:** Outside diameter φ31.9 mm
- **Image diameter:** rotating gobo wheel A: φ24 mm; rotating gobo wheel B: φ24 mm.
- **Effect Wheel**: Colorful effect disc, can be used alone or in combination with prism disc, the speed of bidirectional rotation can be adjusted, and kaleidoscope and rainbow effects can be used.

- **Colour Wheel**: 1 color wheel, 5 colors + white light
- **Cyan**: 0–100% Linear adjustment
- **Magenta**: 0–100% Linear adjustment
- **Yellow**: 0–100% Linear adjustment
- **CTO**: 3000K~6500K
- **Focus And Lens** : High-precision electric zoom and focus
- **Strobe** :1-30 times/second adjustable electronic pulse strobe and random strobe.
- **Dimmer** : 0-100% linear adjustment, dimming without flicker

●CONTROL AND PROGRAMMING

- RDM two-way data transmission,Remote reset DMX address
- **Display : LCD screen**
- **Intelligent control**：Display board can record device's using time , show device's temperature, channel data and software version
- **Error Alarm**：Automatic alarm for fixture failure
- **Software Upgrade** ： Insert USB upgrade software.
- **Protocols** ： DMX-512, RDM
- **Channe** ： 44CH, 56CH. See channel table for details
- **IP RATE**：**IP66**

●MOVEMENT

- **X/Y Travel**：Pan movement 540°, Tilt movement 270°
- **X/Y Resolution**：16 bit precision scan
- **X/Y Speed**：Standard and speed adjustable
- **Automatic Pan / Tilt position correction**

●THERMAL SPECIFICATION

- Maximum ambient temperature: 40 °C
- Maximum surface temperature: 80 °C
- Minimum operating temperature: 0 °C

●APPROVALS

- T**he product implementation standard**: GB 7000.1-2015 GB7000. 217-2008
- **Approved certifications**: CE、RoHs
- **The product complies with the following EU directives:**

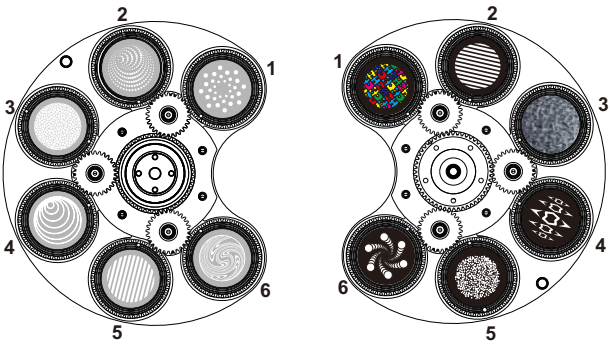
  Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU

●MECHANICAL SPECIFICATION

- Integrated foldable lamp hook design, easy to disassemble and transport.
- **Shell material**:

  The lamp adopts all-aluminum alloy shell, anti-oxidation treatment, high salt spray protection level
- **Lighting Size** ： 509×303×844mm
- **Box Size** ： 950×630×420mm N.W.：55.0kg , G.W.：61.5kg
- **Flycase Size** (1 set)：960X640X615mm N.W.：55.0kg , G.W.：88.0kg

1

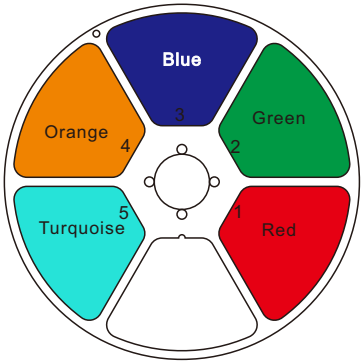


B Disc

Rotating gobo wheel
(please refer to the actual material)

A Disc

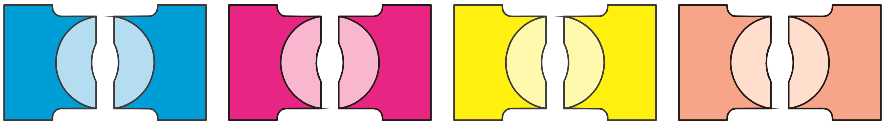
2



Color wheel
(please refer to the actual material)

7 Colour
(please refer to the actual material)

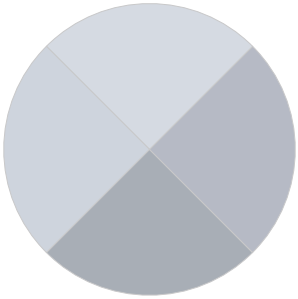
3



Cyan-A Cyan-B Magenta-A Magenta-B Yellow-A Yellow-B CTO-A CTO-B

CMY color mixing system

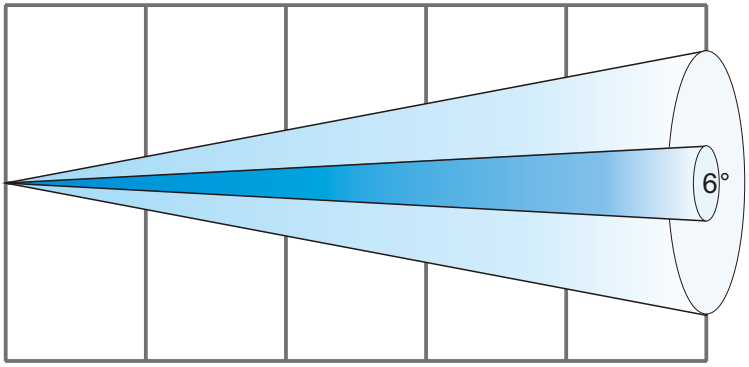
4



4 face Prism

5

illumination diagram



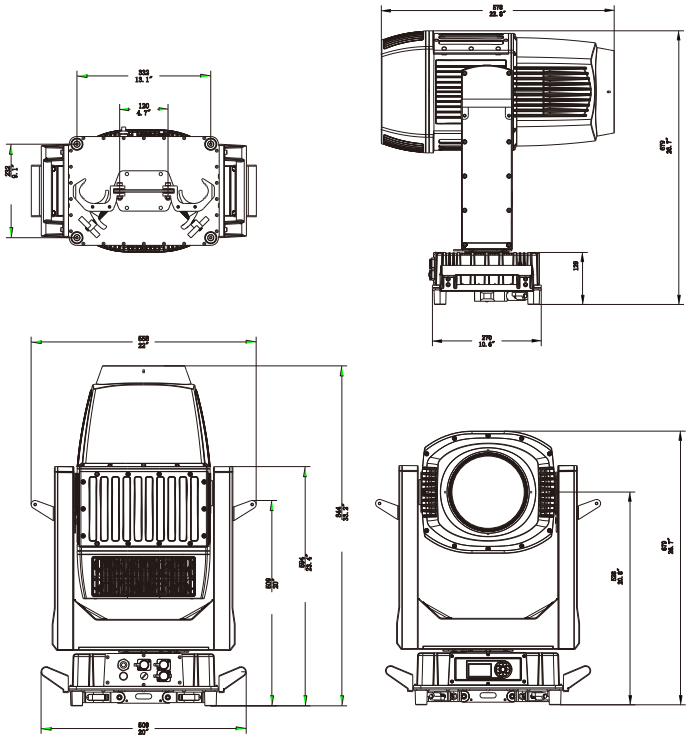
6° Lux	29000	12667	7125	3167	1140
Diameter(m)	1.07	1.605	2.14	3.21	5.35
50° Lux	850	378	213	94	34
Diameter(m)	9.32	13.98	18.64	27.96	46.6

ATTACHMENT AND BODY SIZE

1

Attachment contents- Fig. 1

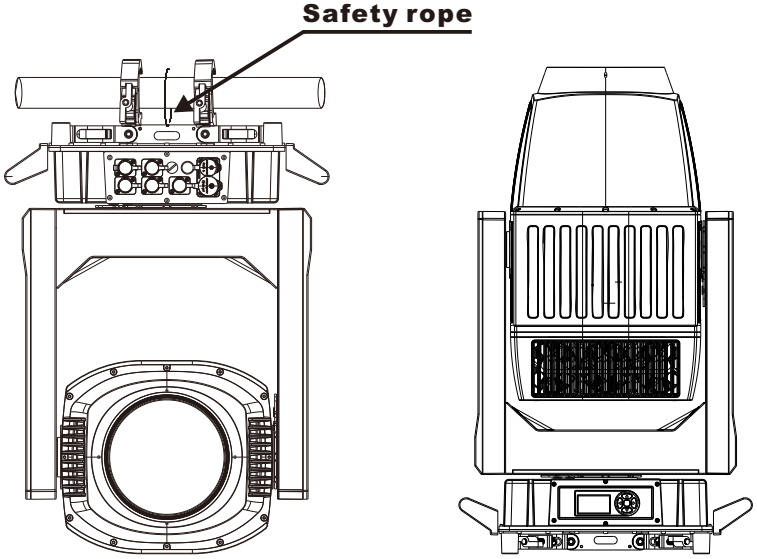
2



Body Size---Fig 2

INSTALLATION AND CONNECTING

3



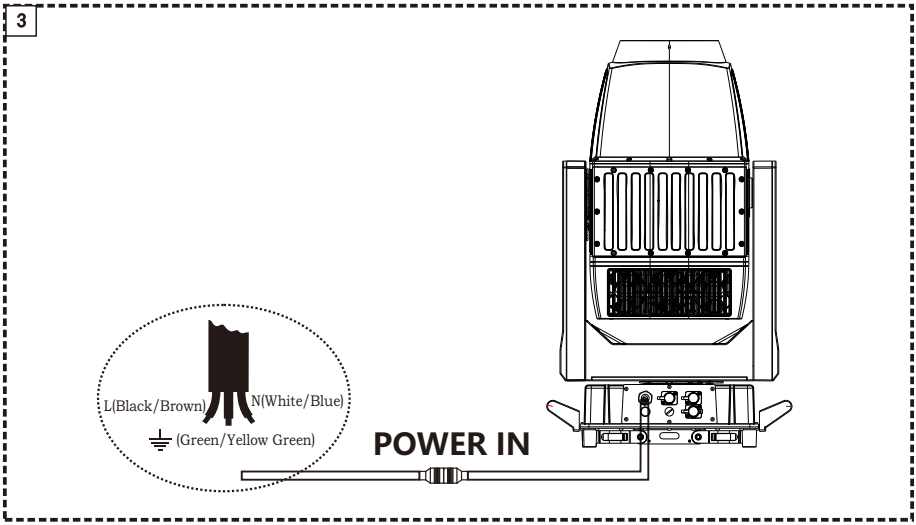
Compact,standard clamp system equipped & easy installation

Lamps can be placed on the floor through rubber feet, or installed on trusses and ceilings.
Warning: a safety rope must be installed unless the lamp is placed on the floor.
It is required that the safety rope must be firmly fixed on the lamp support, and then connected to the central fixing point of the base.

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.



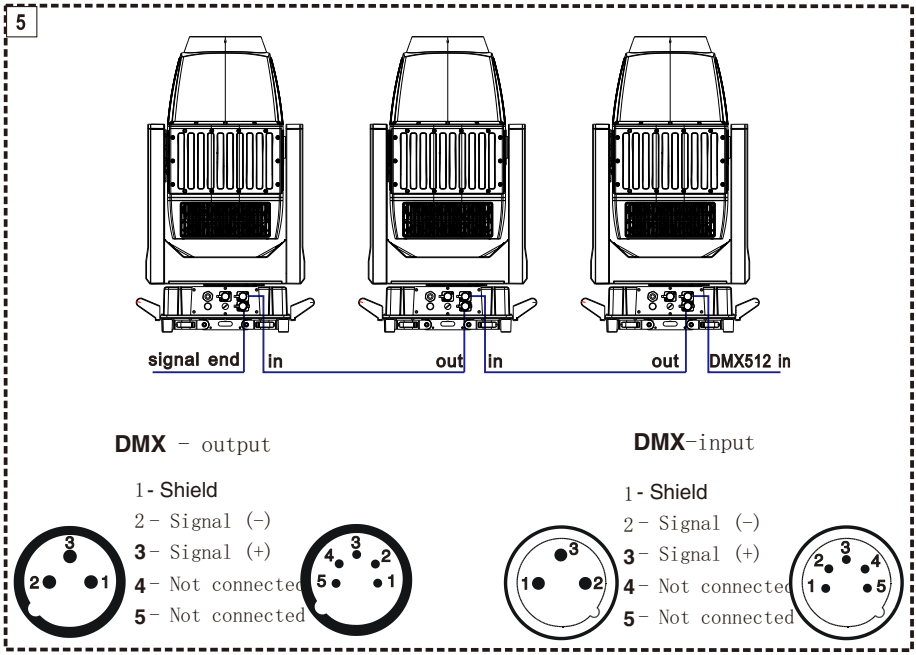
Connecting to the mains suppply ---Fig 3

Wire color-coding and power connections:

Conductor	Symbol	Wire Color (EU models)	Wire Color (US models)
live	**L**	brown	black
neutral	**N**	blue	white
ground(earth)	⏚ or ⏚	yellow-green	green

- connection to the eiectricty mains must be carried out by a qualified electrical installer.

- 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.



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

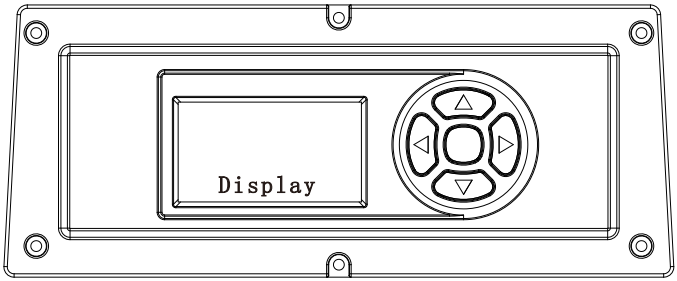
- Please use the round 3 or 5-pin XLR plugs &sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third projector's input. And in the same way for the rest,eventually connect the last projector's output,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

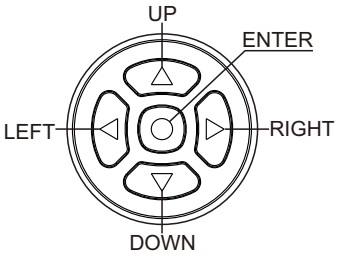
- The projectors's control signal output or input by using the 3 or 5-pin XLR pug and socket.If need to lengthen the communication cable,please make sure the both side of 3 or 5-pin plug is one to one (one to one,two to two,three to three).Otherwise, the communication cable will be interrupted.The communicate cable is 2-cord screened cable 75Ω 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).

- Recommend to use the DMX signal terminator for the installation to avoid the electronic noise dama -ge the digital control signal.Simply speaking, DMX terminator is an XLR connector with a 120Ω 1/2W resistor connected across pin 2 and 3.Which is then plugged into the output socket on the last projec -tor in the hain.Refer to the connection.

CONTROL PANEL

6

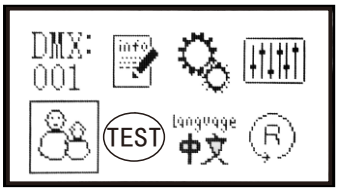




Up arrowhead : page up
Down arrowhead : page down
Left arrowhead : reduce
Right arrowhead : increase
Enter : OK function
Exit : in the choice screen

● 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)

7



DMX: 001 **DMX Address** **Information** **Personal** **Manual control**

Service TEST **TEST** **Language** **Reversal**

MENU SETTING(V1.0)

Menu		I Main		II Main		III Main
DMX Address		Address :001-4XX				
		DMX/ARTNET	→	DMX Priority		
				ARTNET Priority		
		ArtNet Set	→	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)				
Information	→	Total Time	→	Power: :****(h)		
				Led ON: :****(h)		
		Led hours	→	Total :****(h)		
				Led open :****(h)		
		Temperature	→	LED TEM : 000.0		
				Borad TEM :000.0		
		RDM UID	→	RDM UID 3888:00000000		
		FanSpeed/Voltag	→	InFan 00.0V		
				OutFan 00.0V		
				XYFan 00 0V		
				ProFFan 00.0V		
				LEDFan 00.0V		
				CMYFan 00.0V		
				FocusFan 00.0V		
				PrismFan 00.0V		
				InFan1 0000 R(PM)		
				InFan2 0000 R(PM)		
				InFan3 0000 R(PM)		
				OutFan1 0000 R(PM)		
				OutFan2 0000 R(PM)		
				OutFan3 0000 R(PM)		
				XYFan 0000 R(PM)		
				ProFFan 0000 R(PM)		
				LEDFan 0000 R(PM)		
				CMYFan 0000 R(PM)		
				GoboFan 0000 R(PM)		
				BottomFan1 0000 R(PM)		
				BottomFan2 0000 R(PM)		
		DMX live	→	1.Pan 000-255		
				2.PanFine 000-255		
				3.Tilt 000-255		
				4.TiltFine 000-255		
				....		
				....		
		System version	→	Display		
				XY Board:V*.**		
				CMY V*.**		
				Gobo : V*.**		
				Zoom : V*.**		
				Profile1 : V*.**		
				Fan :V*.**		
				Prism : V*.**		
				Profile2 2 : V*.**		
		Return(ESC)				
		Channel mod	→	Standard-HC(44CH)		
				Extended-HC(56CH)		
		Display lock	→	OFF		
				ON		
		Dimmer Curve	→	Linear		
				Square(Default)		
				I-Square		
				SCurve		
		P/T invert	→	Pan invert	→	OFF
						ON
			→	Tilt invert	→	OFF
						ON

Menu		I Main		II Main		III Main
Personal	→	Display	→	Language	→	English
						Chinese
				BackLight	→	Open
						Auto close(30s)
				Reversal	→	Normal
						Rota.180
				Backlight blink	→	ON
						OFF
				Return(ESC)		
		Power mode	→	Standard mode		
				Silent mode		
				Hot mode		
		Led Preq Set	→	1000 Hz		
				3600 Hz		
				7200 Hz		
				25000 Hz		
		Return(ESC)				
Manual control	→	Channel control	→	1.Pan 000-255		
				2.PanFine 000-255		
				3.Tilt 000-255		
				4.TiltFine 000-255		
				....		
				....		
				Return(ESC)		
		Reset	→	system reset		
				Pan/Tilt reset		
				Gobo reset		
				Color reset		
				Profile reset		
				Focus reset		
				Effect reset		
				Return(ESC)		
		Return(ESC)				
Service	→	Error list				
		Clean error	→	No		
				Yes		
		Calibration	→	Pan 000-255		
				Tilt 000-255		
				Cyan 000-255		
				Magenta 000-255		
				Yellow 000-255		
				CTO 00-255 0		
				ColorWheel 000-255		
				Gobo1 000-255		
				Gobo1 Rot. 000-255		
				Gobo2 000-255		
				Gobo2 Rot. 000-255		
				Blade UP1 000-255		
				Blade UP2 000-255		
				Blade DW1 000-255		
				Blade DW2 000-255		
				Blade LF1 000-255		
				Blade LF2 000-255		
				Blade RF1 000-255		
				Blade RF2 000-255		
				FramingRot 000-255		
				Prism 000-255		
				Effect 000-255		
				Frost1 000-255		
				Frost2 000-255		
				Iris 000-255		
				Zoom 000-255		
				Foucs 000-255		
				Dimmer 000-255		

Menu		I Main		II Main		III Main
				FosForGobo1		
				FosForGobo2		
				FosForIris		
				Return(ESC)		
		Factory	→	Defualt		
				Time clean	→	
				Developer	→	Manual Fan Vol
					→	Manual OR DMX
					→	Load font
					→	LOGO
					→	LOGO
					→	Return(ESC)
				Firmware update		
				Return(ESC)		
		Return(ESC)				
test	→	Test P/T	→	STEP ***		
		Test effect	→	STEP ***		
		Test all	→	STEP ***		
		return				
Language	→	English				
		Chinese				
Reversal	→	Normal				
		Rota.180				

CHANNEL FUNCTION(V1.0)/44CH

Channel	DMX	Function	Note
1		Pan	
	0-255	Pan movement/positioning	
2		Pan fin	
	0-255	Fine Pan positioning	
3		TILT	
	0-255	Tilt movement/positioning	
4		TILT fine	
	0-255	Fine Tilt movement/positioning	
5		PAN TILT Speed	
	0-255	Pan Tilt movement Speed From Fast To Slow	
6		Functions	
	0 - 10	NO function	
	11 -- 20	All Reset	
	21 -- 30	XY Reset	
	31 -- 40	Color System Reset	
	41 -- 50	Gobo System Reset	
	51 -- 60	Profile System Reset	
	61 -- 70	Focus System Reset	
	71 -- 80	Slient Mode	
	81 -- 90	Standard Mode	
	91 -- 100	Hot Mode	
	101 -- 110	NO function	
	111 -- 120	NO function	
	121 -- 130	NO function	
	131 -- 140	NO function	
	141 -- 150	NO function	
	151 -- 160	NO function	
	161 -- 170	NO function	
	171 -- 180	Display Back light is always bright	
	181 -- 190	Display Back light is Auto	
	191 -- 200	Function Open	
	201 -- 255	NO function	
7		Cyan	
	0--255	White→full cyan	
8		Magenta	
	0--255	White → full magenta	
9		Yellow	
	0--255	White→ full yellow	
10		CTO	
	0--255	Color Temperature from Deep to Light	
11		Colour wheel	
	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	
	215 - 249	Backwards Color rotation from fast to slow	
	250 - 255		
12		Gobo1	
	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	
	80 - 89	Gobo 2 shake slow to fast/GOBO2	

Channel	DMX	Function	Note
	100 - 109	Gobo 4 shake slow to fast/GOBO4	
	110 - 119	Gobo 5 shake slow to fast/GOBO5	
	120 - 129	Gobo 6 shake slow to fast/GOBO6	
	130 - 139	OPEN	
	140 - 194	Forwards gobo rotation from slow to fast	
	195 - 249	Backwards gobo rotation from fast to slow	
	250 - 255	Random Gobo	
		Gobo1 Rotation	
	0 - 127	0° - 360°	
13	128 - 187	Forwards gobo rotation from fast to slow	
	188 - 195	Gobo rotation stop	
	196 - 255	Backwards gobo rotation from slow to fast	
		Gobo2	
	0 - 9	Open	
	10-19	GOBO1	
	20 - 29	GOBO2	
	30 - 39	GOBO3	
	40 - 49	GOBO4	
	50 - 59	GOBO5	
	60 - 69	GOBO6	
14	70 - 79	Gobo 1 shake slow to fast/ GOBO1	
	80 - 89	Gobo 2 shake slow to fast/GOBO2	
	90 - 99	Gobo 3 shake slow to fast/GOBO3	
	100 - 109	Gobo 4 shake slow to fast/GOBO4	
	110 - 119	Gobo 5 shake slow to fast/GOBO5	
	120 - 129	Gobo 6 shake slow to fast/GOBO6	
	130 - 139	OPEN	
	140 - 194	Forwards gobo rotation from slow to fast	
	195 - 249	Backwards gobo rotation from fast to slow	
	250 - 255	Random Gobo	
		Gobo2 Rotation	
	0 - 127	0° - 360°	
15	128 - 187	Forwards gobo rotation from fast to slow	
	188 - 195	Gobo rotation stop	
	196 - 255	Backwards gobo rotation from slow to fast	
16		Blade UP1	
	0 - 255	Blade Out→In	
17		Blade UP2	
	0 - 255	Blade Out→In	
18		Blade DW1	
	0 - 255	Blade Out→In	
19		Blade DW2	
	0 - 255	Blade Out→In	
20		Blade LF1	
	0 - 255	Blade Out→In	
21		Blade LF2	
	0 - 255	Blade Out→In	
22		Blade RF1	
	0 - 255	Blade Out→In	
23		Blade RF2	
	0 - 255	Blade Out→In	
24		Framing Rotation	
	0 - 255	0° - 120°	
		Framing Macro	
	0 -- 10	No function	
	11 -- 20	Square	
	21 -- 30	rectangle	

Channel	DMX	Function	Note
25	31 -- 40	Isosceles triangle	
	41 -- 50	trapezoidal	
	51 -- 60	The Fan(Facing Up)	
	61 -- 70	parallelogram	
	71 --80	Right Angle trapezoid	
	81 --90	The Fan(Down)	
	91 --100	triangle	
	101--110	prismatic	
	111--120	The stripes	
	121--130	bar	
	131--140	Upper left quadrant	
	141--150	semicircle (Up)	
	151--160	Upper right quadrant	
	161--170	Right semicircle	
	171--180	Right lower quadrant	
	181--190	Semicircle (Down)	
	191--200	The lower left quadrant	
	201--255	Left Semicircle	
26		Framing Macro Zoom	
	0 - 255	Framing Macro Zoom	
27		Prism	
	0 - 10	Prism Out	
	11 - 255	Prism In	
28		Prism Rotation	
	0	No Function	
	1--63	0--360°	
	64-127	Forwards rotation from fast to slow	
	128-191	Backwards rotation from slow to fast	
	192-207	from slow to fast 90° Swing	
	208-223	from slow to fast 180° Swing	
	224-239	from slow to fast 270° Swing	
	240-255	from slow to fast 360° Swing	
29		Effect	
	0 - 10	Effect Out	
	11 - 255	Effect In	
30		Effect Rotation	
	0 - 127	0° - 360°	
	128 - 187	Forwards rotation from fast to slow	
	188 - 195	STOP	
	196 - 255	Backwards rotation from fast to slow	
31		CRI	
	0-9	CRI Out	
	10-255	CRI In	
32		Frost1	
	0 - 127	Frost From Min To Max	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
33		Frost2	
	0 - 127	Frost From Min To Max	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	

Channel	DMX	Function	Note
34		Iris	
	0 - 127	From Max To Min	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
35		Zoom	
	0 - 255	WIDE BEAM→NARROW BEAM	
36		ZoomFine	
	0 - 255	Fine Zoom positioning	
37		Focus	
	0 - 255	Infinity→near	
38		Focus Fine	
	0 - 255	Fine Focus positioning	
39		Autofocus Distance	
	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	
	0-255	Auto Focus Fine	
41		Strobe	
	0-9	No Function	
	10-49	Opening pulses in sequences from fast to slow	
	50-89	Closing pulses in sequences from slow to fast	
	90-119	No Function	
	120 - 179	Random strobe,slow → fast	
	180-255	Strobe,slow → fast	
42		Dimmer	
	0 - 255	Dimmer from Dark To Bright	
43		Dimmer Fine	
	0 - 255	Dimmer Fine	
44		Gobo Macro	
	0-255	Gobo Macro Function	

CHANNEL FUNCTION(V1.0)/56CH

Channel	DMX	Function	Note
1		Pan	
	0-255	Pan movement/positioning	
2		Pan fine	
	0-255	Fine Pan positioning	
3		TILT	
	0-255	Tilt movement/positioning	
4		TILT fine	
	0-255	Fine Tilt movement/positioning	
5		PAN TILT Speed	
	0-255	Pan Tilt movement Speed From Fast To Slow	
6		Functions	
	0 - 10	NO function	
	11 – 20	All Reset	
	21 – 30	XY Reset	
	31 – 40	Color System Reset	
	41 – 50	Gobo System Reset	
	51 – 60	Profile System Reset	
	61 – 70	Focus System Reset	
	71 – 80	Slient Mode	
	81 – 90	Standard Mode	
	91 – 100	Hot Mode	
	101 – 110	NO function	
	111 – 120	NO function	
	121 – 130	NO function	
	131 – 140	NO function	
	141 – 150	NO function	
	151 – 160	NO function	
	161 – 170	NO function	
	171 – 180	Display Back light is always bright	
	181 – 190	Display Back light is Auto	
	191 -- 200	Function Open	
	201 -- 255	NO function	
7		Cyan	
	0--255	White→full cyan	
8		Cyan Fine	
	0--255	Cyan Fine movement/positioning	
9		Magenta	
	0--255	White → full magenta	
10		Magenta Fine	
	0--255	Magenta Fine movement/positioning	
11		Yellow	
	0--255	White→ full yellow	
12		Yellow Fine	
	0--255	Yellow Fine movement/positioning	
13		CTO	
	0--255	Color Temperature from Deep to mall	
14		CTO Fine	
	0--255	CTO Fine movement/positioning	
15		Colour wheel	
	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	
	215 - 249	Backwards Color rotation from fast to slow	
	250 - 255		
		Gobo1	
	0 - 9	Open	
	10-19	GOBO1	
	20 - 29	GOBO2	
	30 - 39	GOBO3	
	40 - 49	GOBO4	

Channel	DMX	Function	Note
16	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast	
	80 - 89	Gobo 2 shake slow to fast	
	90 - 99	Gobo 3 shake slow to fast	
	100 - 109	Gobo 4 shake slow to fast	
	110 - 119	Gobo 5 shake slow to fast	
	120 - 129	Gobo 6 shake slow to fast	
	130 - 139	OPEN	
	140 - 194	Forwards gobo rotation from slow to fast	
	195 - 249	Backwards gobo rotation from fast to slow	
	250 - 255	Random Gobo	
17		Gobo1 Rotation	
	0 - 127	0° - 360°	
	128 - 187	Forwards gobo rotation from fast to slow	
	188 - 195	Gobo rotation stop	
	196 - 255	Backwards gobo rotation from slow to fast	
18		Gobo2	
	0 - 9	Open	
	10-19	GOB01	
	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	
	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast	
	80 - 89	Gobo 2 shake slow to fast	
	90 - 99	Gobo 3 shake slow to fast	
	100 - 109	Gobo 4 shake slow to fast	
	110 - 119	Gobo 5 shake slow to fast	
	120 - 129	Gobo 6 shake slow to fast	
	130 - 139	OPEN	
	140 - 194	Forwards gobo rotation from slow to fast	
	195 - 249	Backwards gobo rotation from fast to slow	
	250 - 255	Random Gobo	
19		Gobo2 Rotation	
	0 - 127	0° - 360°	
	128 - 187	Forwards gobo rotation from fast to slow	
	188 - 195	Gobo rotation stop	
	196 - 255	Backwards gobo rotation from slow to fast	
20		Blade UP1	
	0 - 255	Blade Out→In	
21		Blade UP1 Fine	
	0 - 255	Fine Blade positioning	
22		Blade UP2	
	0 - 255	Blade Out→In	
23		Blade UP2 Fine	
	0 - 255	Fine Blade positioning	
24		Blade DW1	
	0 - 255	Blade Out→In	
25		Blade DW1 Fine	
	0 - 255	Fine Blade positioning	
26		Blade DW2	
	0 - 255	Blade Out→In	
27		Blade DW2 Fine	
	0 - 255	Fine Blade positioning	
28		Blade LF1	
	0 - 255	Blade Out→In	
29		Blade LF1 Fine	
	0 - 255	Fine Blade positioning	
30		Blade LF2	
	0 - 255	Blade Out→In	
31		Blade LF2 Fine	

Channel	DMX	Function	Note
	0 - 255	Fine Blade positioning	
32		Blade RF1	
	0 - 255	Blade Out→In	
33		Blade RF1 Fine	
	0 - 255	Fine Blade positioning	
34		Blade RF2	
	0 - 255	Blade Out→In	
35		Blade RF2 Fine	
	0 - 255	Fine Blade positioning	
36		Framing Rotation	
	0 - 255	0° - 90°	
37		Framing Macro	
	0 -- 10	No function	
	11 -- 20	Square	
	21 -- 30	rectangle	
	31 -- 40	Isosceles triangle	
	41 -- 50	trapezoidal	
	51 -- 60	The Fan(Facing Up)	
	61 -- 70	parallelogram	
	71 --80	Right Angle trapezoid	
	81 --90	The Fan(Down)	
	91 --100	triangle	
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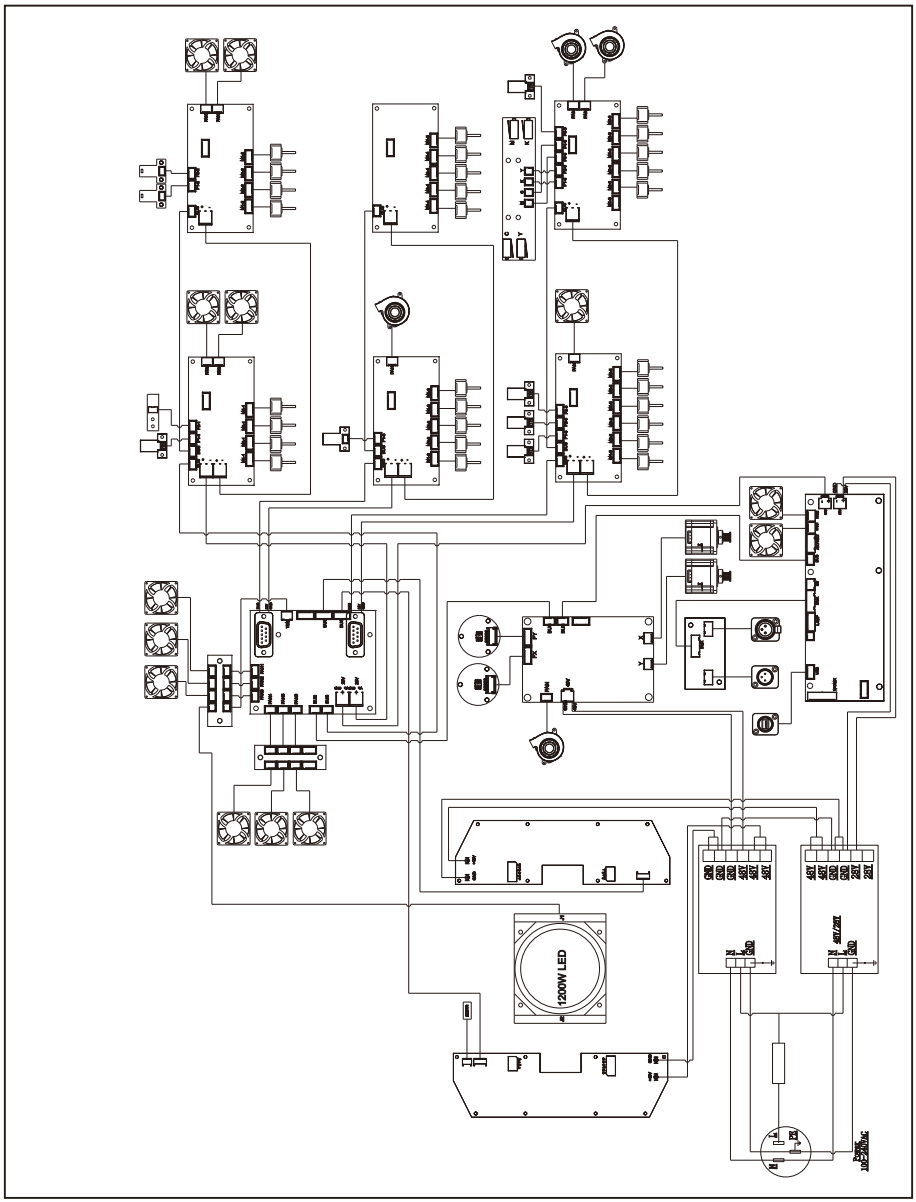
	111--120	The stripes	
	121--130	bar	
	131--140	Upper left quadrant	
	141--150	semicircle (Up)	
	151--160	Upper right quadrant	
	161--170	Right semicircle	
	171--180	Right lower quadrant	
	181--190	Semicircle (Down)	
	191--200	The lower left quadrant	
	201--255	Left Semicircle	
38		Framing Macro Zoom	
	0 - 255	Framing Macro Zoom	
39		Prism	
	0 - 10	Prism Out	
	11 - 255	Prism In	
40		Prism Rotation	
	0	No Function	
	1--63	0--360°	
	64-127	Forwards rotation from fast to slow	
	128-191	Backwards rotation from slow to fast	
	192-207	from slow to fast 90° Swing	
	208-223	from slow to fast 180° Swing	
	224-239	from slow to fast 270° Swing	
	240-255	from slow to fast 360° Swing	
41		Effect	
	0 - 10	Effect Out	
	11 - 255	Effect In	
42		Effect Rotation	
	0 - 127	0° - 360°	
	128 - 187	Forwards rotation from fast to slow	
	188 - 195	STOP	
	196 - 255	Backwards rotation from fast to slow	
43		No Function	
	0-255	No Function	
44		Frost1	
	0 - 127	Frost From Min To Max	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
		Frost2	

Channel	DMX	Function	Note
45	0 - 127	Frost From Min To Max	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
46		Iris	
	0 - 127	From Max To Min	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
47		Zoom	
	0 - 255	WIDE BEAM→NARROW BEAM	
48		ZoomFine	
	0 - 255	Fine Zoom positioning	
49		Focus	
	0 - 255	Infinity→near	
50		Focus Fine	
	0 - 255	Fine Focus positioning	
51		Autofocus Distance	
	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	
	0-255	Auto Focus Fine	
53		Strobe	
	0-9	No Function	
	10-49	Opening pulses in sequences from fast to slow	
	50-89	Closing pulses in sequences from slow to fast	
	90-119	No Function	
	120 - 179	Random strobe, slow → fast	
	180-255	Strobe, slow → fast	
54		Dimmer	
	0 - 255	Dimmer from Dark To Bright	
55		Dimmer Fine	
	0 - 255	Dimmer Fine	
56		Gobo Macro	
	0-255	Gobo Macro Function	

CIRCUIT CONNECTING DIAGRAM



CLEANING AND MAINTENANCES

■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.

■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.

■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.

■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.

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

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

■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.

CAUTION!!!

Disconnect from mains before starting maintenance operation.

TROUBESHOOTING

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 ：

◎ Please check if install the suitable voltage

◎ Please check whether the led will reach the end of their life can explode; please replace a same description led.

◎ Please check if the power supply is enough.

◎ Please check whether the DMX 512 controller pass the "turn on" order.

■The fixture couldn't accept the control order:

◎ Please check the start code address and the function option are correct.

◎ Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.

◎ Please check the control system is not valid, check the signal amplifier of chain connected is valid.

◎ Please check whether the communicate cable is too long or the other equipment is mutually conjugate.

◎ Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.

◎ Add the signal amplify isolator.

◎ Signal cable is used the excellent screening doublet (Resistance 75 OHM）

◎ The end of the light end and the end resistance.

■The fixture can't move:

◎ Please check if the power supply is suitable for the light voltage data.

◎ Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.

◎ Please check the if the iniside lead wire and the connector is loose.

◎ Please check the electric parts(such as the transformer,PCB board,contrller) is short-circuit or burn down.

■ The light beam dark, not inhomogeneou.

◎ when the light suore is to the usage life, the light suore is not enough, please change a new one for the same description.

◎ Please check the reflector parts is dirty.Keep them clear.

◎ Please measure if the power supply is enough.

◎ Enter the menu "service options" to choose "calibration" to enter the "Color" and "Gobo" adjustment, the center can be modulated.

■ The fixture shadow is fogging。

◎ Please check the data on the DMX 512 controller is suitable for the electric focus.

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

■ Part of the fixture couldn't responsled to the controlling order:

◎Please check the order is correct to the moving .

◎Please check the mechanicalpart is deformation or loose.

◎Please check the function to the motor soshet is loose or drive chip is burn down;

◎Please check the wire of the motor is cut at zig piont;

◎Please check these function to the motor is damaged.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

■ The light source belongs to consumption products that is not guarantee to keep it in good repair.

■ ny products broken that didn't according to the instruction is not guarantee to keep it in good repair.

■ The commentary for all the instruction belongs to the supplier in final

■ No authorize can't copy.

■ The information in this manual may be changed in the future,the company reserve the right to change the data without any advise.