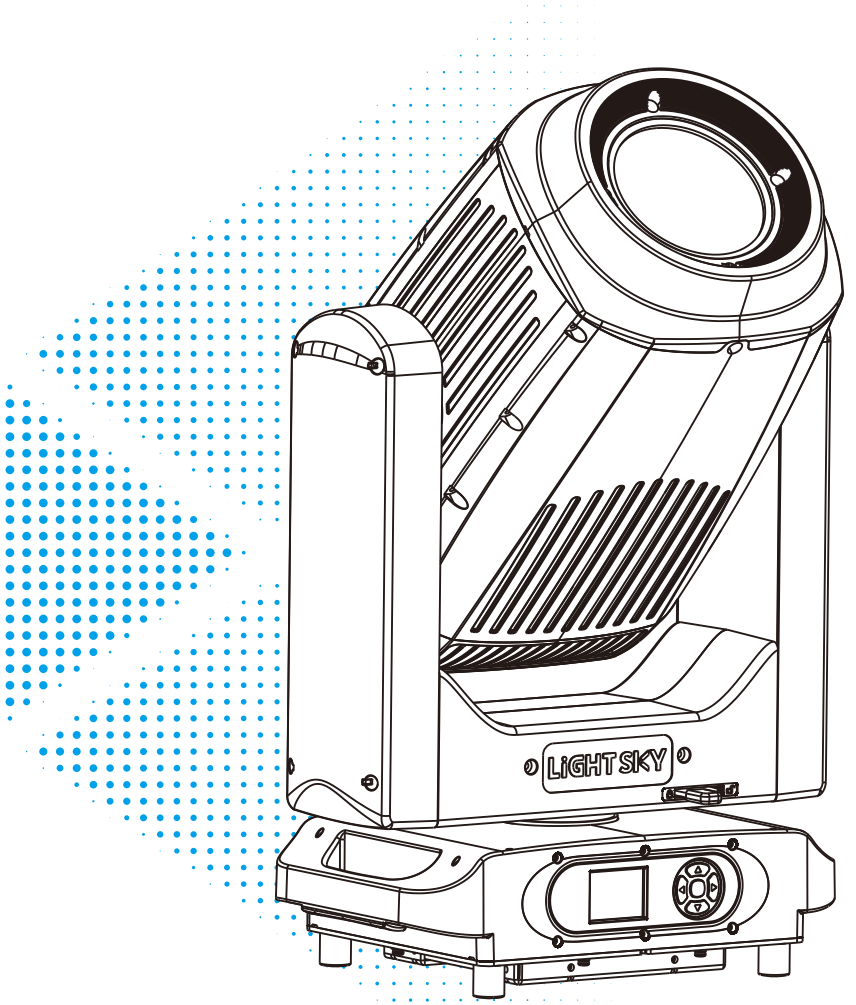
LiGHT SKY

www.lightsky.com.cn



AURORA TIDE

User Manual

Please read the instruction carefully before use

Fly Dragon Lighting Equipment Co., Ltd.

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LiGHT SKY Wechat

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

- Please keep in mind that this product, like other products of the company, adheres to the concept of people-oriented design and manufacture, and takes product quality as the foundation.
- We put the interests of customers first, and do our best to meet customer requirements.
- Please read this instruction manual carefully and keep it for future reference. In the case of fully understanding the product information, strictly abide by theUse the instruction manual to ensure that the product is installed, used and serviced correctly and safely.
- Our company is not responsible for any damage to lamps or other performance due to personal failure to follow the instructions during installation, use and maintenance.responsibility.
- Our company reserves the right to modify the manual at any time and without prior notice.

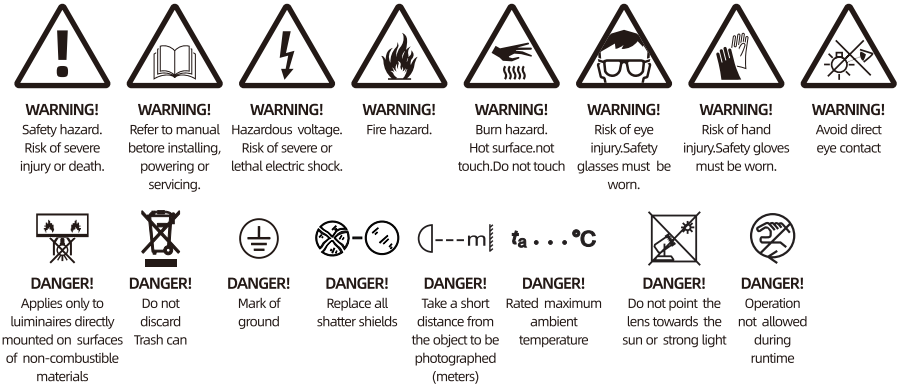
1.Safety Instructions

WARNING

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this manual.

The following symbols are used to identify important safety information on the product and in this manual:



Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

— Unpack and check carefully to ensure that there is no transportation damage before using the unit.

— Do install and operate by qualified operator.

— The light source in this luminaire should be replaced by the manufacturer or its service agent or a similarly qualified person, always cut off the power supply before replacing he light source.

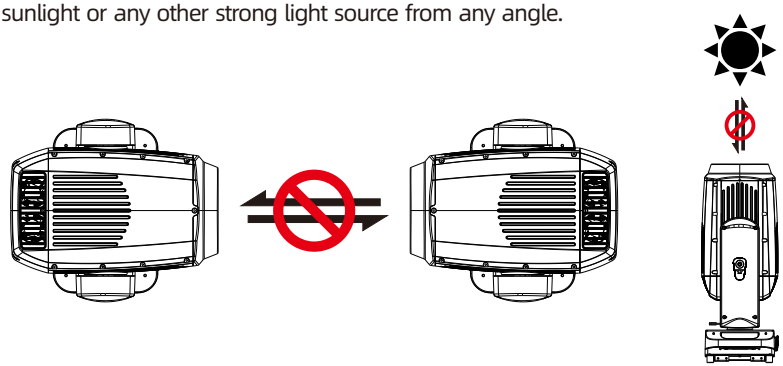
— Do not allow children to operate the fixture.

— Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.

— The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.

— Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.

— Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
— It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
— Minimum ambient temperature Ta: -10°C. Maximum ambient temperature Ta: 45°C.
— Do not operate this product at a lower or higher temperature.
— Do not connect the device to any dimmer pack.
— When the lamp is running, do not place combustible objects next to it. The shortest distance between the device and inflammable and explosive objects or materials is 1 m.
— Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
— Unit's surface temperature may reach up to 65°C. Do not touch the housing bare-handed during its operation.
— Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
— Do not operate in a dirty or dusty environment. Do clean the fixture regularly.
— Do not touch any wire during operation as there might be a hazard of electric shock.
— Avoid entanglement of the power cord with other wires.
— The distance between the luminaire and the irradiated surface shall be greater than 3 meters.
— Do not shine light directly into another fixture's lens. Intense beam can damage internal components.
— Direct sunlight or any other strong light beam penetrating the front lens of the luminaire can cause severe internal damage. During unpacking, installation, operation, and xtended idle periods outdoors, it is prohibited to expose the front lens of the luminaire to beams of direct sunlight or any other strong light source from any angle.



— In the event of serious operating problem, stop using the unit immediately.
— Never turn on and off the unit time after time.
— The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

— Do not open the housing as there are no user serviceable parts inside.
— Do not attempt to operate this unit if it becomes damaged. Do not attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
— Disconnect this product from its power source before servicing.
— Do use the original packaging if the device is to be transported.
— Avoid direct eye exposure to the light source while the product is on.
— Do not operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

Installation:

The luminaire must be securely fastened to the quick-lock hook with screws to prevent vibration or slipping during operation. The supporting structure must be able to withstand 6 times the weight of the luminaire. Additionally, a safety cable must be installed that can endure 30 free-fall drops from 300mm without failure. Installation should only be performed by qualified professionals, and the luminaire must be mounted in an area inaccessible to unauthorized personnel or away from pedestrian traffic.

2.Technical Specifications

OPTICS

- Light source: 350W white LED module
- Field angle: 4.1°-42° (Standard mode), 2.1°-20° (Beam mode)
- Optical lens: ϕ115mm
- Color temperature: 7000K ± 250K
- Color rendering index: Ra≥71 (cut in index ≥ 90)
- Illuminance: 18792 lx@10m
- Luminous flux: 15000 lm
- Light source expected lifespan: 50000 h

(*LED source life depends on several factors, including but not limited to:environmental conditions, control dimming, power supply and voltage, switchingcycle, fixture mode, etc.)

COLOR

- CMY infinite color mixing
- CTO Color Temperature Linear Adjustment (2500K-7000K)
- Multi color effect film
- 8 color chips+white light+1 CRI, capable of achieving bidirectional color rainbow, dual color step gradient (linear movement), bidirectional rotation of color wheel, random color mode.

PATTERN

- Rotating gobo wheel: 8 types of glass gobos + open, gobo outer diameter 17.0mm, inner diameter 13.0mm, pluggable and replaceable. Supports rotation, flow, and shake effects.
- 1 fixed gobo wheel: 8 types of gobos + open, supports flow and shake effects.
- Effect wheel: Supports bidirectional flow effects with linear speed adjustment.

EFFECT

- Prism: 4 prisms+6 rows of mirrors, rotatable in both directions.
- Soft light effect: light atomization+heavy atomization, adjustable independent soft light effect.
- Electronic dimming, 0-100% linear dimming, uniform light spot.
- Electronic strobe speed is 1-25 times/second.
- LED refresh rate: 1000Hz~25KHz

CONTROL AND PROGRAMMING

- Control channel: 30CH、42CH、39CH, Please refer to the channel table for details.
- Protocol: Standard DMX512 protocol, RDM protocol, Art-Net protocol, sCAN protocol.
- Data connection: Three core or five core signal input/output
- Display: LCD screen

SOFTWARE

- Upgrade software through DMX interface
- Intelligent temperature control ensures LED lifespan
- Silent fan, three working modes (high brightness/standard/silent)

X/Y AXIS MOTION ANGLE

- X-axis: 540 ° (8-bit/16bit precision scanning)
- Y-axis: 270 ° (8-bit/16bit precision scanning)
- Reset function with automatic error correction
- Fixed lock: horizontal/vertical lock

POWER SUPPLY AND POWER

- Input voltage: AC 100-240V 50/60Hz
- Maximum power: 524W
- Power factor: 0.96
- Maximum current of the lamp: 5.24A/100V; 2.38A/220V

DIMENSIONS & WEIGHT

- Product size: 365 × 232 × 600mm
- N.W.: 22.1kg
- Carton packaging (Default): 710 × 450 × 315mm
- G.W.: 27.1kg

OTHER

- Protection level: IP66
- Working environment: -10 ℃ ~ 45 ℃
- Maximum surface temperature of lamp body: 65 ℃

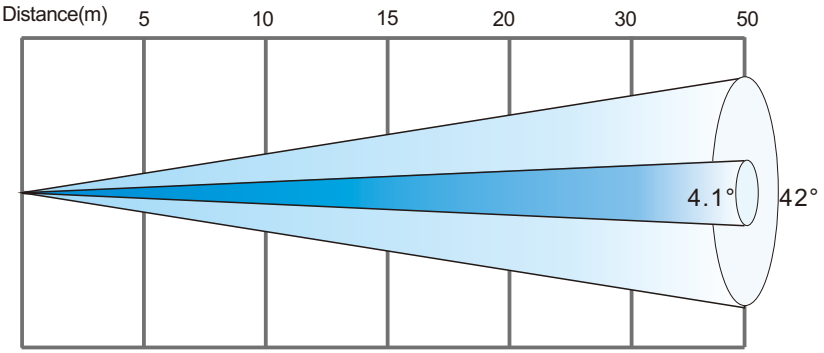
OPTIONAL ACCESSORIES / PACKAGING

- Flycase Size(2 units)： 660×500×825mm
- G.W.: 80.7kg

APPROVALS

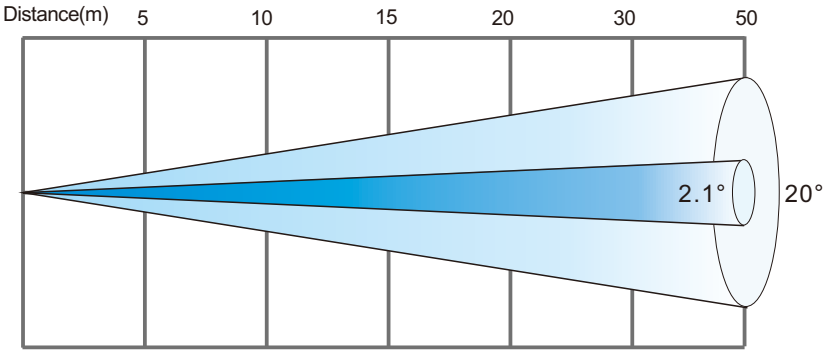
- The product implementation standard: IEC 60598-1、IEC 60598-2-17
- Approved certifications: CE、RoHs
- The product complies with the following EU directives:
  Low Voltage Directive 2014/35/EU. EMC Directive 2014/30/EU

Illumination Diagram



4.1° lx	75168	18792	8352	4698	2088	752
Diameter(m)	0.36	0.72	1.08	1.44	2.16	3.6
42° lx	180	456	203	114	51	18
Diameter(m)	3.9	7.8	11.7	15.6	23.4	39

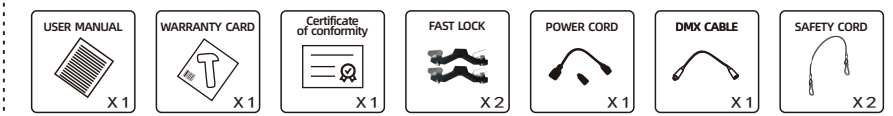
Illumination Diagram (Beam Mode)



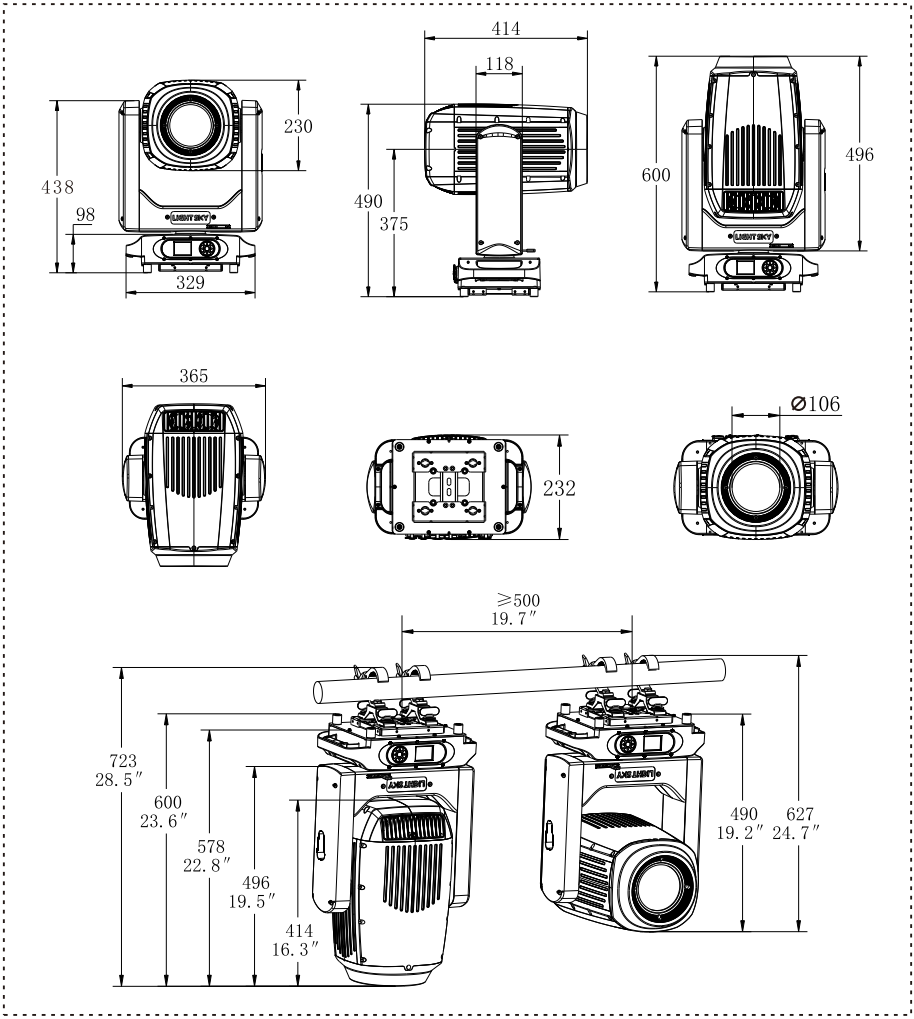
2.1° lx	90000	22500	10000	5625	2500	900
Diameter(m)	0.19	0.37	0.55	0.74	1.11	1.85
20° lx	2200	550	244	138	61	22
Diameter(m)	0.9	1.8	2.7	3.6	5.4	9

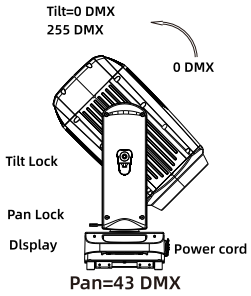
2.1.Attachment And Size

Attachment contents-Fig.1

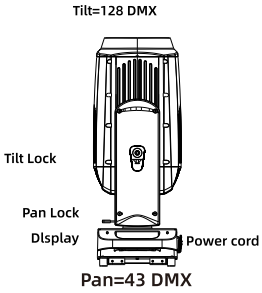


Size-Fig.2(Unit:mm)

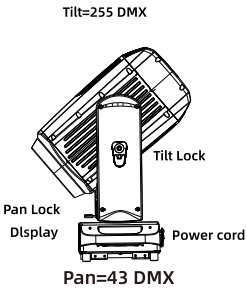




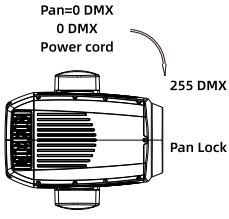
Pan=43 DMX



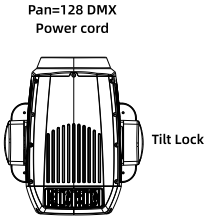
Pan=43 DMX



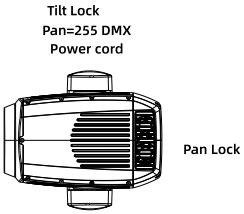
Pan=43 DMX



Display
TILT=43 DMX



Display
TILT=43 DMX



Display
TILT=43 DMX

3.Color/Gobo/Prism

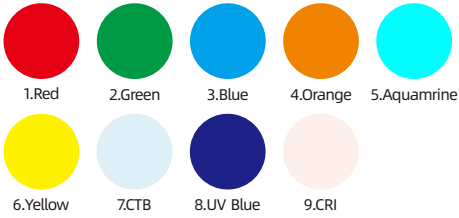
CMY-color wheel



CMY+CTO

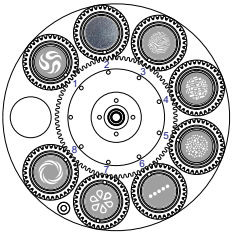


Multicolor film



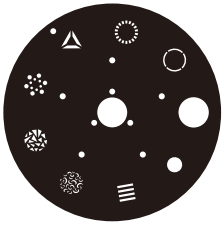
color

Pattern



Rotating gobo whee



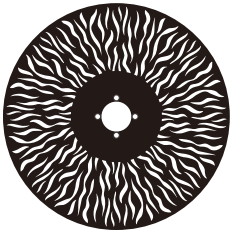


Fixed gobo wheel



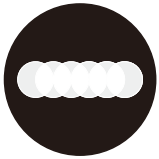
DANGER! Attention: When installing GOBO chips, it is necessary to strictly follow the order of the pictures and not change the original order and direction of the GOBO chips at will.Please disconnect the power supply when installing/replacing the rotating pattern piece!

Effect



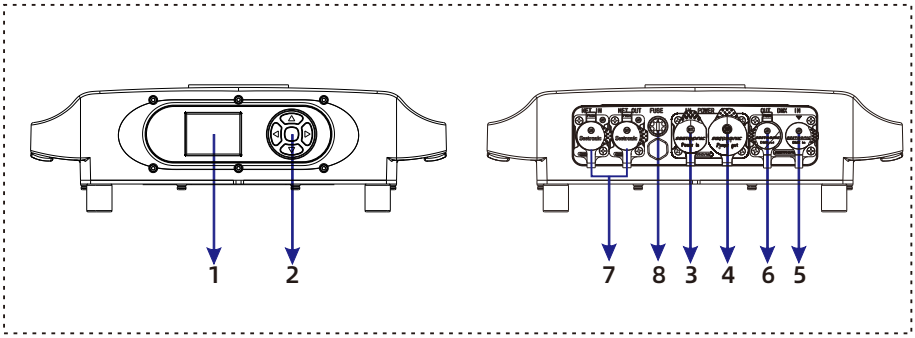


4 Prism



6-Row Prism

4.Control Panel



1.Display: To show the various menus and the selected function.

2.Button:

●	OK confirmation key
▲	UP
▼	DOWN
◀	To the left
▶	To the right

3.Power input: Connect the power supply.

4.Power output: Connect the lamp power output adapter.

5.DMX input: Used for DMX512 connection, use 3 core or 5 core XLR signal cable toconnect console and lamps,And input DMX signal.

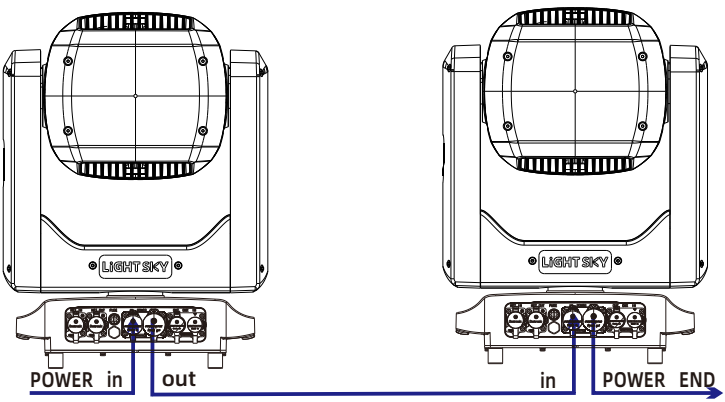
6.DMX output: Used for DMX512 connection, use 3 core or 5 core XLR signal cable toconnect console and lamps,And output DMX signal.

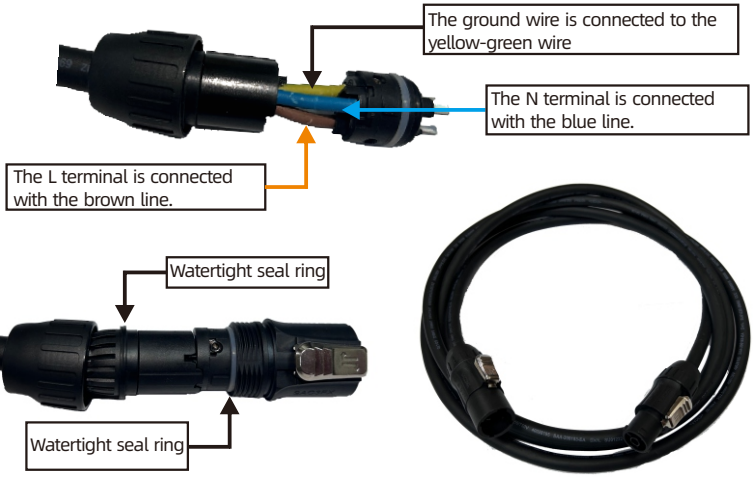
7.Art-net/USB: The information of the lamp can be transmitted to the main controllerthrough the network cable, and the lamp can be controlled through RJ45. USB optional.

8.Fuse holder: Used for the bottom box battery pack power supply display board when not powered on.(Note: In the case of air transportation, the lighting fixtures will require disassembly of fuses for shipment, and they must be installed by themselves upon receipt.)

5.Connection and control

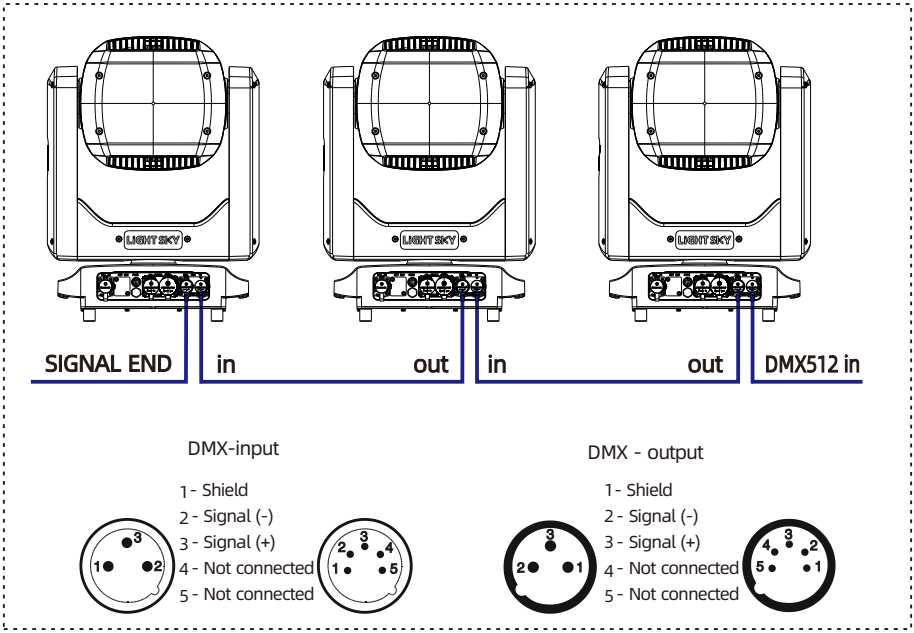
5.1.Power supply connection





- The bus connecting the power supply must be installed by a qualified professional technician.
- After completing all the above operations and ensuring that it is installed, you can power on the lamp to operate.

5.2.DMX 512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 Ω 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

6.How To Set The Unit

6.1.Main Function

Main menu	I menu	II menu	III menu	Note
DMX Setting	Address	1-512		
	Channel	30CH (Default) /42CH/39CH		
	State	Black (Default)		
		Hold		
	Input Mode	DMX (Default)		Art-Net can only be selected when there is an Art-Net module available
		ARTNET		
		sACN		
	Dmx Address Lock	OFF		
		ON (Default)		
Information	Time	Total Power Time		
		Power Time		
		Total Light Time		
		Light time		
	Temperature	LED Temp.		
	Fan Information	LED FanVol		
		LED Fan1Sp		
		LED Fan2Sp		
		LED Fan5Sp		
		LED Fan6Sp		
		Gobo FanVol		
		Gobo Fan1Sp		
		Focus Fan1Vol		
		Focus Fan2Vol		
		Focus Fan1Sp		
		Focus Fan2Sp		
		Focus Fan5Sp		
		Base FanVol		
		Base Fan1Sp		
	Fixture Status	1.MCU(XY) ***		
		2.MCU(LED) ***		
		3.MCU(CMY) ***		
		4.MCU(GOBO) ***		
		5.MCU(ZOOM) ***		
		6.Pan ***		
		7.Tilt ***		
		8.Cyan ***		
		9.Magenta ***		
		10.Yellow ***		
		11.Cto ***		
		12.Color ***		
		13.FixGobo ***		
		14.Gobo ***		
		15.GoboRot ***		
		16.Zoom ***		
		17.Focus ***		
		18.LED Fan1 ***		
		19.LED Fan2 ***		
		20.LED Fan5 ***		
		21.LED Fan6 ***		
		22.Gobo Fan1 ***		
		23.Focus Fan1 ***		
		24.Focus Fan2 ***		
		25.Focus Fan5 ***		
		26.Base Fan1 ***		
	RDM UID	3888：xxxxxxxx		
	DMX Live	DMX		
	Software	1.Display Ver. Vxxx		
		2.XY Ver. Vxxx		
		3.LED Ver. Vxxx		
		4.CMY Ver. Vxxx		
		5.GOBO Ver. Vxxx		
		6.ZOOM Ver. Vxxx		
	Serial Number	Serial Number		
		Dimmer Curve	Linear	
			Square (Default)	
			I-Square	
			S-Curve	

Main menu	I menu	II menu	III menu	Note
Personality	Dimmer&Fan Setting	Dimmer Freq	600HZ	
			1200HZ	
			2000HZ	
			4000HZ	
			6000HZ (Default)	
			25000HZ	
		Dimmer Speed	Fast (Default)	
			Slow	
		Fan Mode	HighOutput	
			Standard (Default)	
			Silent	
	PanTilt Setting	Pan Invert	OFF (Default)	
			ON	
		Tilt Invert	OFF (Default)	
			ON	
		P/T Rectify	OFF	
			ON (Default)	
		P/T Mode	Normal (Default)	
			Fast	
			Precise	
		P/T Smooth	OFF (Default)	
			ON	
	Display Setting	Language	EN (Default)	
			ZH	
		Dis. Backlight	OFF (Default)	
			ON	
		Dis. Direction	Forward (Default)	
			Reverse	
		Dis. Blink	OFF	
			ON (Default)	
	Other Setting	CMY Mode	Standard (Default)	
			Theater	
		FX Auto Focus	OFF	
			ON (Default)	
	Ethernet Setting	IP Address	***.***.***.***	This menu can only be displayed when the Art-Net module is connected
		Mask Address	***.***.***.***	
		Universe Address	0-32767	
		sACN Universe Address	1-63999	
		DHCP	OFF (Default)	
			ON	
		Ethernet To DMX	OFF (Default)	
			ON	
Manual	Channel control	1.Pan ***		
	Reset	PanTilt		
		CMY Module		
		Gobo Module		
		Zoom Module		
		All		
Service	Calibration	1.Pan ***		
		2.Tilt ***		
		3.Cyan ***		
		4.Magenta ***		
		5.Yellow ***		
		6.Cto ***		
		7.Color ***		
		8.FixGobo ***		
		9.Gobo ***		
		10.GoboRot ***		
		11.Animation ***		
		12.AnimationRot ***		
		13.Prism1 ***		
		14.Prism Rot1 ***		
		15.Prism2 ***		
		16.Prism Rot2 ***		
		17.Frost1 ***		
		18.Frost2 ***		

Main menu	I menu	II menu	III menu	Note
		19.Zoom ***		
		20.Focus ***		
		21.GoboFocus ***		
		22.AnimationFocus ***		
		23.Dimmer ***		
	Factory Reset	NO / YES	Password : 1111	
	Reset Timers	1.Total Power Time	NO / YES	
		2.Total Light Time	NO / YES	
		1.Power Time	NO / YES	
		2.Light Time	NO / YES	
	Developer			
	Firmware update			
Language				
Test	Test PanTilt			
	Test Head Module			
	Test All			
Display Rotate				

6.2.Address Setting

Enter MENU, select the DMA setting function, select the address code setting, press the OK button to confirm, and the current DMX address will be displayed in the On screen display. Use the up/down buttons to select addresses 001-512, press the OK button to save the current address code, and return to the previous menu level.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
30 Channel	1	31	61	91
42 Channel	1	43	85	127
39 Channel	1	40	79	118

6.3.DMX 512 Configuration

Please control the fixture by referring to the configurations below

30 Channel	42 Channel	DMX	Function	Note
1	1	0--255	**Pan**	Angle: 0-540°
2	2	0--255	**Pan Fine**	Maximal Speed: 2.61S
3	3	0--255	**Tilt**	Angle: 0-270°
4	4	0--255	**Tilt Fine**	Maximal Speed: 1.85S
5	5	0--255	**Speed pan/tilt**	
6	6		**Strobe**	
		0-10	Strobe closed	
		11-20	Strobe open	
		21-117	Linear strobe,slow → fast	1-25HZ
		118-127	Strobe open	
		128-181	Random strobe,Slow → Fast	1-25HZ
		182-192	Strobe open	
		193-245	Pluse strobe,slow → fast	0.5-12HZ
		246-255	Strobe open	
7	7	0-255	**Dimmer**	
8	8	0-255	**Dimmer Fine**	
9	9	0-255	**Zoom**	
/	10	0-255	**ZoomFine**	
10	11	0-255	**Focus**	
/	12	0-255	**FocusFine**	
/	13		**AutoFocus**	
		0-9	NO function	
		10-19	7M	
		20-29	10M	
		30-39	15M	
		40-49	20M	
		50-59	25M	
		60-69	30M	
		70-79	40M	
		80-255	50M	
/	14	0-255	**AutoFocusFine**	
11	15		**ColorWheel**	
		0-13	White	
		14-19	White+ Red	
		20-25	Red	
		26-31	Red+ Green	
		32-37	Green	
		38-43	Green+ Blue	
		44-49	Blue	
		50-55	Blue+ Orange	
		56-61	Orange	
		62-67	Orange + Aqua	
		68-73	Aqua	
		74-79	Aqua + Yellow	
		80-85	Yellow	
		86-91	Yellow + CTB	
		92-97	CTB	
		98-103	CTB+UV Blue	
		104-109	UV Blue	
		110-115	UV Blue + CRI	
		116-121	CRI	
		122-127	CRI+White	
		128-190	CW, Fast→Slow Rotation	Speed: 125->0 RPM
		191-192	Stop	
		193-255	CCW, Slow→Fast Rotation	Speed: 0->125 RPM
/	16	0-255	**ColorWheel Fine**	

30 Channel	42 Channel	DMX	Function	Note
12	**17**	0-255	**Cyan**	
/	**18**	0-255	**Cyan Fine**	
13	**19**	0-255	**Magenta**	
/	**20**	0-255	**Magenta Fine**	
14	**21**	0-255	**Yellow**	
/	**22**	0-255	**Yellow Fine**	
15	**23**	0-255	**CTO**	
/	**24**	0-255	**CTO Fine**	
16	**25**		**RotgoboWheel**	
		0-7	Open	
		8-14	RotGobo1	
		15-21	RotGobo 2	
		22-28	RotGobo 3	
		29-35	RotGobo 4	
		36-42	RotGobo 5	
		43-49	RotGobo 6	
		50-56	RotGobo 7	
		57-63	RotGobo 8	
		64-71	RotGobo1shake,slowto fast	Speed: 0.2->10 HZ
		72-79	RotGobo2shake,slowto fast	Speed: 0.2->10 HZ
		80-87	RotGobo3shake,slowto fast	Speed: 0.2->10 HZ
		88-95	RotGobo4shake,slowto fast	Speed: 0.2->10 HZ
		96-103	RotGobo5shake,slowto fast	Speed: 0.2->10 HZ
		104-111	RotGobo6shake,slowto fast	Speed: 0.2->10 HZ
		112-119	RotGobo7shake,slowto fast	Speed: 0.2->10 HZ
		120-127	RotGobo8shake,slowto fast	Speed: 0.2->10 HZ
		128-187	RotGoboWheel CW fast to slow	Speed: 120->0 RPM
		188-189	Stop	
		190-249	RotGoboWheel CCW slow to fast	Speed: 0->120 RPM
		250-255	Auto random gobo selection from fast to slow	
17	**26**		**GoboRot**	
		0-127	GoboRot indexing 0°- 360°	
		128-190	RotGobo CW fast to slow	
		191-192	Stop	
		193-255	RotGobo CCW slow to fast	
/	**27**	0-255	**GoboRot Fine**	
18	**28**		**FixgoboWheel**	
		0-7	Open	
		8-14	FixGobo 1	
		15-21	FixGobo 2	
		22-28	FixGobo 3	
		29-35	FixGobo 4	
		36-42	FixGobo 5	
		43-49	FixGobo 6	
		50-56	FixGobo 7	
		57-63	FixGobo 8	
		64-71	FixGobo1shake,slowto fast	Speed: 0.2->10 HZ
		72-79	FixGobo2shake,slowto fast	Speed: 0.2->10 HZ

30 Channel	42 Channel	DMX	Function	Note
		80-87	FixGobo3shake,slowto fast	Speed: 0.2->10 HZ
		88-95	FixGobo4shake,slowto fast	Speed: 0.2->10 HZ
		96 -103	FixGobo5shake,slowto fast	Speed: 0.2->10 HZ
		104-111	FixGobo6shake,slowto fast	Speed: 0.2->10 HZ
		112-119	FixGobo7shake,slowto fast	Speed: 0.2->10 HZ
		120-127	FixGobo8shake,slowto fast	Speed: 0.2->10 HZ
		128-187	FixGoboWheel CW fast to slow	Speed: 120->0 RPM
		188-189	Stop	
		190-249	FixGoboWheel CCW slow to fast	Speed: 0->120 RPM
		250-255	Auto random gobo selection from fast to slow	
19	29		**Animation**	
		0-19	Open	
		20-127	Proportional indexing	
		128-255	Animation	
20	30		**AnimationRot**	
		0-127	AnimationRot indexing 0°	Angle: 0-360°
		128-190	AnimationRot CW fast to slow	Speed: 125->0 RPM
		191-192	Stop	
		193-255	AnimationRot CCW slow to fast	Speed: 0->125 RPM
21	31		**Color Animation**	
		0	Open	
		1-127	Proportional indexing	
		128-255	from slow to fast Swing	
22	32		**Prism1**	
		0-3	Prism out	
		4-255	Prism In	
23	33		**PrismRot1**	
		0-127	Prism indexing	Angle: 0-360°
		128-189	Forwards prism rotation from fast to slow	Speed: 62.5->0 RPM
		190-193	Stop	
		194-255	Backwards prism rotation from slow to fast	Speed: 0->62.5 RPM
/	34	0-255	**PrismRot1 Fine**	
24	35		**Prism2**	
		0-3	Prism out	
		4-255	Prism In	
25	36		**PrismRot2**	
		0-127	Prism indexing	Angle: 0-360°
		128-189	Forwards prism rotation from fast to slow	Speed: 62.5->0 RPM
		190-193	Stop	
		194-255	Backwards prism rotation from slow to fast	Speed: 0->62.5 RPM
/	37	0-255	**PrismRot2 Fine**	
26	38		**Frost1**	
		0-255	Frost indexing	
27	39		**Frost2**	
		0-255	Frost indexing	
28	40		**Beam Mode**	
		0-127	Spot Mode	
		128-255	Beam Mode	
			Function(Hold 3s)	
		0-5	No function	
		6-10	Fan HighOutput mode	
		11-15	Fan Standard mode	
		16-20	Fan Silent mode	
		21-25	Dis.Blink off	
		26-30	Dis.Blink on	
		31-35	CMY Mode:Standard	
		36-40	CMY Mode:Theater	

30 Channel	42 Channel	DMX	Function	Note
		41-45	Pan/Tilt Mode Standard	
		46-50	Pan/Tilt Mode Fast	
		51-55	Pan/Tilt Mode Precise	
		56-60	Pan/Tilt Smooth on	
		61-65	Pan/Tilt Smooth off	
		66-70	Pan invert on	
		71-75	Pan invert off	
29	**41**	76-80	Tilt invert on	
		81-85	Tilt invert off	
		86-90	LED frequency 600Hz	
		91-95	LED frequency 1.2kHz	
		96-100	LED frequency 2kHz	
		101-105	LED frequency 4kHz	
		106-110	LED frequency 6kHz	
		111-115	LED frequency 25kHz	
		116-120	Dimmer curve linear	
		121-125	Dimmer curve square	
		126-130	Dimmer curve inv-square	
		131-135	Dimmer curve "S"	
		136-140	Dimmer fast	
		141-145	Dimmer slow	
		146-150	No function	
		151-155	No function	
		156-160	FX Auto Focus off	
		161-165	FX Auto Focus on	
		166-170	No function	
		171-175	No function	
		176-180	Dis. Backlight off	
		181-185	Dis. Backlight on	
		186-255	No function	
			Reset(Hold 3s)	
		0-10	No function	
		11-20	Reset Pan&Tilt	
		21-30	Reset CMY Module	
		31-40	Reset Gobo Module	
30	**42**	41-50	Reset Zoom Module	
		51-60	No function	
		61-70	No function	
		71-80	No function	
		81-90	No function	
		91-100	No function	
		101-255	Reset All	

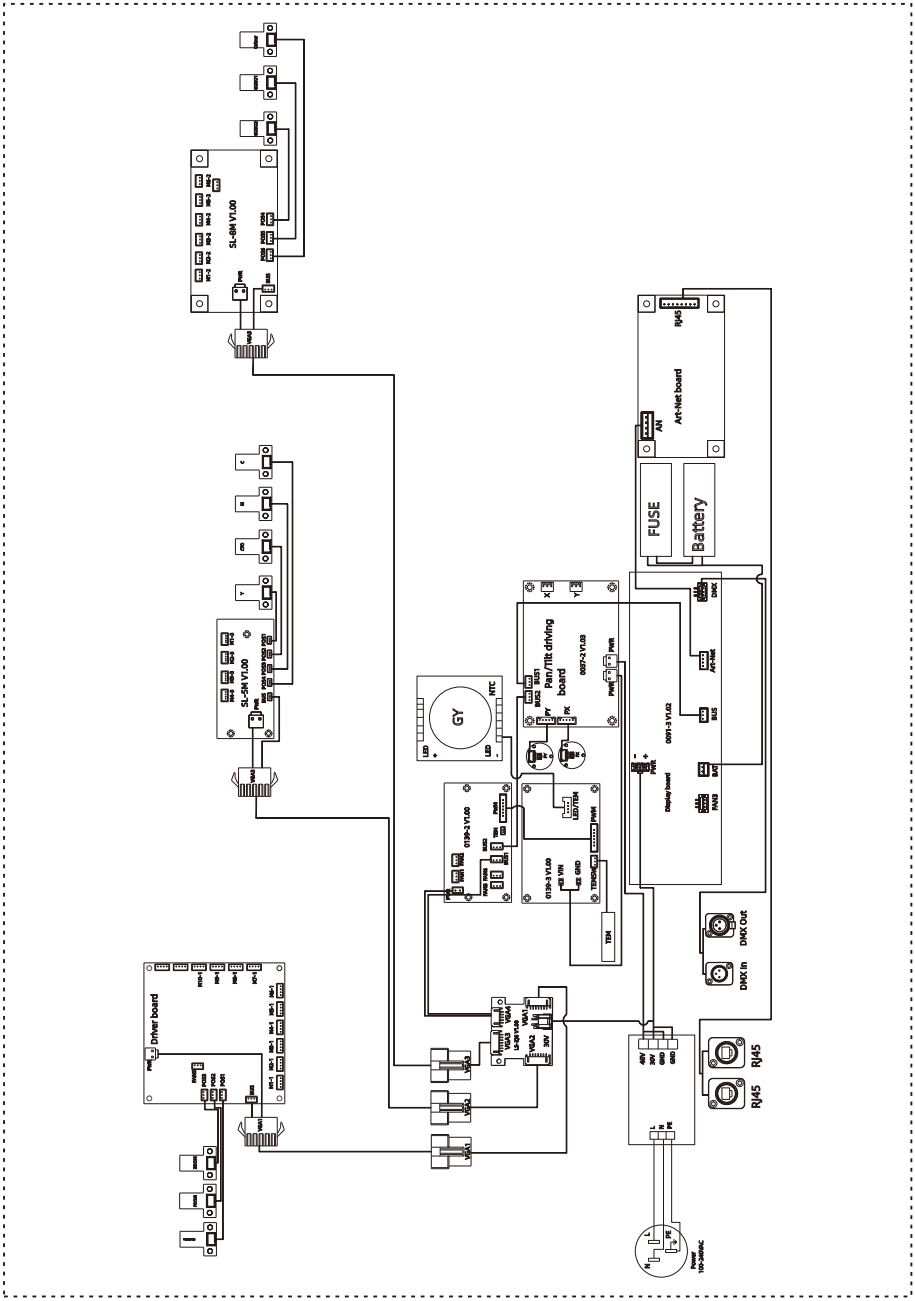
39 Channel	DMX	Function	Note
1	0--255	**Pan**	Angle：0-540°
2	0--255	**Pan Fine**	Maximal Speed：2.61S
3	0--255	**Tilt**	Angle：0-270°
4	0--255	**Tilt Fine**	Maximal Speed：1.85S
5	0-255	**Reserved**	
6	0--255	**Speed pan/tilt**	
7		**Reset(Hold 3s)**	
	0-9	No function	
	10-11	No function	
	12-13	No function	
	14-19	No function	
	20-21	Display Backlight On	
	22-23	Display Backlight Off	
	24-27	No function	
	28-29	Dimmer curve square	
	30-31	Dimmer curve linear	
	32-33	Fan Standard mode	
	34-35	Fan HighOutput mode	
	36-37	Fan Silent mode	
	38-39	No function	
	40-41	No function	
	42-43	No function	
	44-45	No function	
	46-47	No function	
	48-49	No function	
	50-51	No function	
	52-53	No function	
	54-55	No function	
	56-57	No function	
	58-59	No function	
	60-61	No function	
	62-63	No function	
	64-65	No function	
	66-67	No function	
	68-129	No function	
	130-131	Reset All	
	132-133	Reset Pan&Tilt	
	134-135	Reset CMY Module	
	136-137	Reset Gobo Module	
	138-139	Reset Zoom Module	
	140-219	No function	
	220-221	No function	
	222-223	No function	
	224-225	No function	
	226-233	No function	
	234-235	No function	
	236-237	No function	
	238-239	No function	
	240	No function	
	241-255	No function	
8		**Function(Hold 3s)**	
	0-4	No function	
	5-9	LED frequency 600Hz	
	10-14	LED frequency 1.2kHz	
	15-19	LED frequency 2kHz	
	20-24	LED frequency 4kHz	
	25-29	LED frequency 6kHz	
	30-255	LED frequency 25kHz	
9	0-255	**Reserved**	
10	0-255	**Reserved**	
		ColorWheel	
	0	White	
	1-129	Continual positioning	

39 Channel	DMX	Function	Note
11	130-134	Red	
	135-138	Green	
	139-143	Blue	
	144-147	Orange	
	148-152	Aqua	
	153-157	Yellow	
	158-161	CTB	
	162-166	UV Blue	
	167-171	CRI	
	172-176	No function	
	177-180	No function	
	181-185	No function	
	186-189	No function	
	190-215	CW，Fast→Slow Rotation	Speed：125->0 RPM
	216-217	Stop	
	218-243	CCW，Slow→Fast Rotation	Speed：0->125 RPM
	244-249	random colour selection	
	250-255	Auto random colour selection from fast to slow	
12	0-255	**ColorWheel Fine**	
13	0-255	**Cyan**	
14	0-255	**Magenta**	
15	0-255	**Yellow**	
16	0-255	**CTO**	
17	0-255	**Reserved**	
18	0-255	**Reserved**	
19		**CMY & Colour wheel time**	
	0	Function is off (0=default)	
	1 - 255	Time of CMY and col. wheel movement (0.1sec-->25.5sec.)	
20		**Zoom & Focus & Frost & Prism time**	
	0	Function is off (0=default)	
	1 - 255	Time of zoom/ focus /frostmovement (0.1 sec-->25.5 sec.)	
	1-50	Time of prism movement (0.1 sec-->5 sec.)	
21		**FixgoboWheel**	
	0-1	Open	
	2-8	FixGobo 1	
	9-15	FixGobo 2	
	16-22	FixGobo 3	
	23-29	FixGobo 4	
	30-36	FixGobo 5	
	37-43	FixGobo 6	
	44-50	FixGobo 7	
	51-57	FixGobo 8	
	58-64	Open	
	65-71	Open	
	72-78	Open	
	79-89	FixGobo1shake,slow to fast	
	90-100	FixGobo2shake,slow to fast	
	101-111	FixGobo3shake,slow to fast	
	112-122	FixGobo4shake,slow to fast	
	123-133	FixGobo5shake,slow to fast	
	134-144	FixGobo6shake,slow to fast	
	145-155	FixGobo7shake,slow to fast	
	156-166	FixGobo8shake,slow to fast	
	167-177	Open	
	178-188	Open	
	189-199	Open	
	200-201	Open	
	202-222	FixGoboWheel CW fast to slow	
	223-243	FixGoboWheel CCW slow to fast	
	244-249	No function	
	250-255	Auto random gobo selection from fast to slow	
		RotgoboWheel	
		Index - set indexing on channel 24	

39 Channel	DMX	Function	Note
22	0-4	Open	
	5-7	RotGobo1	
	8-10	RotGobo 2	
	11-13	RotGobo 3	
	14-16	RotGobo 4	
	17-19	RotGobo 5	
	20-22	RotGobo 6	
	23-25	RotGobo 7	
	26-28	RotGobo 8	
	29-31	Open	
		Rotation - set rotation on channel 24	
	32-34	RotGobo1	
	35-37	RotGobo 2	
	38-40	RotGobo 3	
	41-43	RotGobo 4	
	44-46	RotGobo 5	
	47-49	RotGobo 6	
	50-52	RotGobo 7	
	53-55	RotGobo 8	
	56-59	Open	
		Shaking gobo from slow to fast	
		Index - set indexing on channel 24	
	60-66	Open	
	67-73	RotGobo1	
	74-80	RotGobo 2	
	81-87	RotGobo 3	
	88-94	RotGobo 4	
	95-101	RotGobo 5	
	102-108	RotGobo 6	
	109-115	RotGobo 7	
	116-122	RotGobo 8	
	123-129	Open	
	130	Open	
		Shaking gobo from slow to fast	
		Rotation - set rotation on channel 24	
	131-137	Open	
	138-144	RotGobo1	
	145-151	RotGobo 2	
	152-158	RotGobo 3	
	159-165	RotGobo 4	
	166-172	RotGobo 5	
	173-179	RotGobo 6	
	180-186	RotGobo 7	
	187-193	RotGobo 8	
	194-200	Open	
	201	Open	
	202 - 222	Forwards gobo wheel rotation from fast to slow	
	223 - 243	Backwards gobo wheel rotation from slow to fast	
	244 - 249	No function	
	250-255	Auto random gobo selection from fast to slow	
23	0-255	Reserved	
24		GoboRot	
		Gobo indexing - set position on channel	
	0 - 255	Gobo indexing	
		Gobo rotation - set position on channel	
	0	GoboRot indexing	
	1-127	RotGobo CW fast to slow	
	128	Stop	
	129-255	RotGobo CCW slow to fast	
25	0-255	GoboRot Fine	
		Prism1	
	0-3	Prism out	

39 Channel	DMX	Function	Note
26		Index - set indexing on channel PrismRot1	
	4-15	Prism In	
		Rotation - set rotation on channel PrismRot1	
	16-255	Prism In	
27		**PrismRot1**	
		Prism indexing	
	0-255	Prism indexing	
		Prism rotation	
	0	Prism indexing	
	1-127	Forwards prism rotation from fast to slow	
	128	Stop	
	129-255	Backwards prism rotation from slow to fast	
28		**Prism2**	
	0-3	Prism out	
		Index - set indexing on channel PrismRot2	
	4-15	Prism In	
		Rotation - set rotation on channel PrismRot2	
	16-255	Prism In	
29		**PrismRot2**	
		Prism indexing	
	0-255	Prism indexing	
		Prism rotation	
	0	Prism indexing	
	1-127	Forwards prism rotation from fast to slow	
	128	Stop	
	129-255	Backwards prism rotation from slow to fast	
30	0-255	**Reserved**	
31	0-255	**Reserved**	
32		**Frost**	
	0	Frost Out	
	1-50	Frost1 indexing	
	51-53	Frost1 In	
	54-63	Frost1 Pulse closing from slow to fast	
	64-73	Frost1 Pulse opening from fast to slow	
	74-83	Frost1 Ramping from fast to slow	
	84-86	Frost Out	
	87-136	Frost2 indexing	
	137-139	Frost2 In	
	140-149	Frost2 Pulse closing from slow to fast	
	150-159	Frost2 Pulse opening from fast to slow	
	160-169	Frost2 Ramping from fast to slow	
	170-172	Frost Out	
	173-222	Frost1 In 2 indexing	
	223-225	Frost1/2 In	
	226-235	Frost1In 2 Pulse closing from slow to fast	
	236-245	Frost1In 2 Pulse opening from fast to slow	
	246-255	Frost1In 2 Ramping from fast to slow	
33	0-255	**Zoom**	
34	0-255	**ZoomFine**	
35	0-255	**Focus**	
36	0-255	**FocusFine**	
37		**Strobe**	
	0-31	Closed	
	32-63	Open	
	64-95	Slow-Fast Strobe	1-25HZ
	96-127	Open	
	128-143	Plus-Fast Close	1-25HZ
	144-159	Plus-Fast Open	
	160-191	Open	
	192-223	Random Slow-Fast Strobe	
	224-255	Open	
38	0-255	**Dimmer**	
39	0-255	**Dimmer Fine**	

7.Electrical Connection Diagram



8.Troubleshooting

The following are common faults of lamps and corresponding solutions. Faults that cannot be repaired by yourself should be handled by professionally qualified personnel. Disconnect the power supply to the lamp during maintenance!

● The light source is not bright
- Check that a suitable light source is installed for the luminaire.
- Check whether the power supply connection of the lamp or the control switch is in poor contact.
- Check whether the light source has reached the end of its service life or is damaged, and replace it with a high-quality light source of the same specification.
- Measure whether the power supply is insufficient.
- Check whether the light source has not cooled down completely due to abnormal operation. Let the lamp cool down for more than 15 minutes to allow the light source to cool down. After returning to the normal start-up range, turn the power on again and it can be used normally.
- Check whether the DMX512 controller sends a command to turn on the light source.
- Check whether the light source and trigger circuit are disconnected or defective.
- Check whether the wiring terminals on the internal trigger are in poor contact and tighten the plug.
- Check the "Fan Speed and Voltage" in the "Basic Information" menu to see if the speed of FAN1/FAN2/FAN3 is above 500RPN. If it is below 500RPM, the light source will not light up. Replace the fan with the same specification.
- Check whether the over-temperature protection temperature switch inside the lamp is damaged. Go to the menu "Basic Information" and select "Equipment Temperature" to check - whether the temperature measuring plate shows that the temperature is too high or there is no temperature display.

● The beam appears dim and uneven
- The light source may have reached the end of its service life and does not emit enough light. Replace it with a light source of the same specification.
- Check whether there is dust accumulated in the optical part and clean it.
- Measure whether the power supply is insufficient.
- Finely adjust the screw device used to change the height of the lamp until the ideal light is achieved. Enter the menu "Service Options" and select "Calibration" to enter color and pattern adjustment, which can be adjusted to the center.

● The projected image is blurry
- Check whether the DMX512 controller channel value corresponding to the electronic focus system is suitable for the current projection distance.
- Check whether the mechanical part of the focusing system is stuck, remove the dust and add antifreeze and temperature-resistant lubricating oil.

● The light source of the lamp works intermittently
- Check whether the fan is running normally or is blocked by dust and paper debris.
- Check whether the inlet and outlet cooling air vents are blocked by dust.
- Check whether the lamp has reached the end of its service life.

- Check whether the power supply is insufficient, and whether the power switch and wiring are in poor contact or aging.
- Check whether the over-temperature protection temperature switch inside the lamp is damaged.

● Although it emits light, the lamp does not accept instructions from the controller

- Check whether the digital start address value and function options of the lamp are correct.
- Check whether the connection of the communication control line is correct. The communication line is too long or has been interrupted.
- Check whether the control equipment fails and whether the signal amplifier connected in series fails.
- Check whether the communication line is too long or if other devices interfere with each other.
- Optimize wiring, shorten the length of control signal lines, and route high-voltage and low-voltage lines separately
- Add signal amplifier isolator.
- The signal line is made of high-quality shielded twisted pair (impedance characteristic is 75Ω), and the signal terminal resistor is connected at the end of the lamp.
- Check that the circuit board communication IC or CPU is burned out because the bulb performs an abnormal operation when it is not completely cooled, causing the instantaneous ultra-high voltage leakage generated by the trigger, and replace the PCB board.

● The lamp cannot be started

- Check whether the power supply parameters match the lamps.
- Check whether the fuse at the light fixture's power input is blown.
- Check that the lamp has poor contact or falls off due to extrusion deformation, vibration of internal parts, moisture, etc. during long-distance transportation.
- Check whether the internal wires and connectors of the lamp are desoldered or loose.
- Check whether the electrical components of the lamp (such as power switch, transformer, ballast, capacitor, varistor, filter, power supply PCB board, motor control PCB board, etc.) are loose, short-circuited, burned out, etc.

● Some functions of the lamp cannot accept controller instructions

- Check whether the control device sends correct action instructions for these functions.
- Check whether the mechanical parts corresponding to these functions are loose or deformed.
- Check whether the motor sockets corresponding to these functions are loose or the corresponding driver chips are burned out.
- Check whether the motor wires corresponding to these functions are broken at the corners.
- Check whether the motors corresponding to these functions are damaged.

● During operation, the x or Y direction of the lamp does not move normally

- Click the previous step to check one by one.
- Check whether the corresponding drive belts in the X and Y directions of the lamp are detached or broken.
- Check whether the data feedback receiver corresponding to the X and Y directions in the lamp is damaged.
- Restart the computer and reset it once.

9.Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days .



CAUTION ! ! !

Disconnect from mains before starting maintenance operation.

10.Duty exonerative and copyright protectio

- Light source belongs to consumption products, not within the scope of warranty.
- The manufacturer shall not bear any responsibility for any damage caused by failure to operate in accordance with this instruction.
- The manufacturer reserves the right of final interpretation for all information in this manual. For any questions, please refer to the official website.
- All the information in this manual shall not be copied without permission.
- The data contained in this statement are subject to change in the future without prior notice.