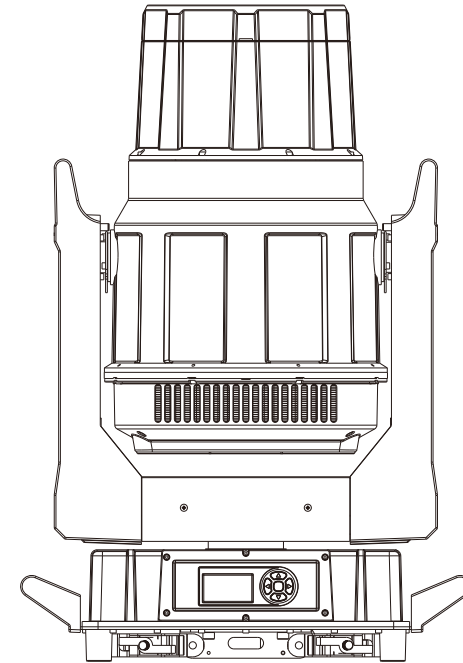


LiGHT SKY

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD



LiGHT SKY

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SHARK 450

USER MANUAL

Please read these user manual carefully before use!

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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.

SAFETY INFORMATION



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

WARNING

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:

 DANGER! Safety hazard. Risk of severe injury or death.	 DANGER! Refer to manual before installing, powering or servicing.	 DANGER! Hazardous voltage. Risk of severe or lethal electric shock.	 Warning! Fire hazard.	 Warning! Burn hazard. Hot surface. Do not touch.	 Warning! Risk of eye injury. Safety glasses must be worn.	 Warning! Risk of hand injury. Safety gloves must be worn.	 Avoid direct eye contact
 Applies only to luminaires directly mounted on surfaces of non-combustible materials	 Do not discard Trash can	 Mark of ground	 Replace all shatter shields	 Take a short distance from the object to be photographed (meters)	 Rated maximum ambient temperature	 Do not point the lens towards the sun or strong light	 Operation not allowed during runtime

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 the 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 20cm 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: -20°C . Maximum ambient temperature Ta: 40°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 0.5m.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to $\leq 80^{\circ}\text{C}$. 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 minimum distance to objects/surface must be more than 12 meters.
- 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 fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing.

Do install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

TECHNICAL INFORMATION

OPTICS

- Light source: NSL- 450 USHIO LIGHT SKY
- Optical angle: 1.8 °
- Optical lens: coated with high anti reflective film, ϕ 190mm
- Color temperature: 6900K
- Color rendering index: Ra \geq 72
- Illuminance: 525000 lux@10 m
- Expected service life of light source: 1500H (data provided by the light source supplier)

COLOUR

- Color: 14 color chips+white light, capable of achieving bidirectional color rainbow, dual color step gradient (linear movement), bidirectional rotation of color wheel, random color mode.

PATTERN

- Pattern: 11 patterns+white light+3 animations (animation effect patterns) with bi-directional shaking, animation, and flowing effects.

EFFECT

- Prism 8+Prism 24: capable of bidirectional independent rotation, independent switching, and stacking
- Soft light effect: adjustable independent soft light effect
- Strobe: 0.5-9 timescond adjustable pulse flicker and random flicker
- Dimming: 0-100% linear adjustment
- Focusing: High precision electric focusing

CONTROL AND PROGRAMMING

- Control channel: 17CH, please refer to the channel table for details
- Protocol: Standard DMX512 protocol and RDM protocol
- ArtNet protocol (optional)
- Data connection: Three core or five core signal input/output
- RJ45 interface (optional)
- Display: LCD screen
- Upgrade software through DMX signal

X/Y AXIS MOTION ANGLE

- X-axis: 540 ° 8-bit/16bit precision scanning
- Y-axis: 240 ° 8-bit/16bit precision scanning
- Reset function with automatic error correction
- Fixed lock: Vertical lock

POWER SUPPLY AND POWER

- Input voltage: AC 100-240V 50/60Hz
- Maximum power: 650W
- Power factor: 0.985
- Maximum current of the lamp: 3.0A/220V, 6.5A/100V

DIMENSION

- Product size: 509 × 320 × 742mm
- N.W.: 34.5kg
- Carton packaging (default): 810 × 580 × 395mm
- G.W.: 39kg
- Flycase Size (1 sets) : 620 × 640 × 825 mm
- G.W.: 69.0kg

OTHER

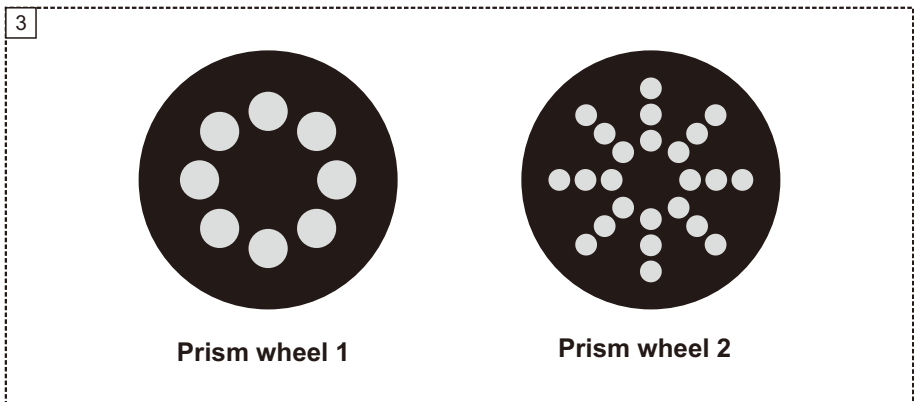
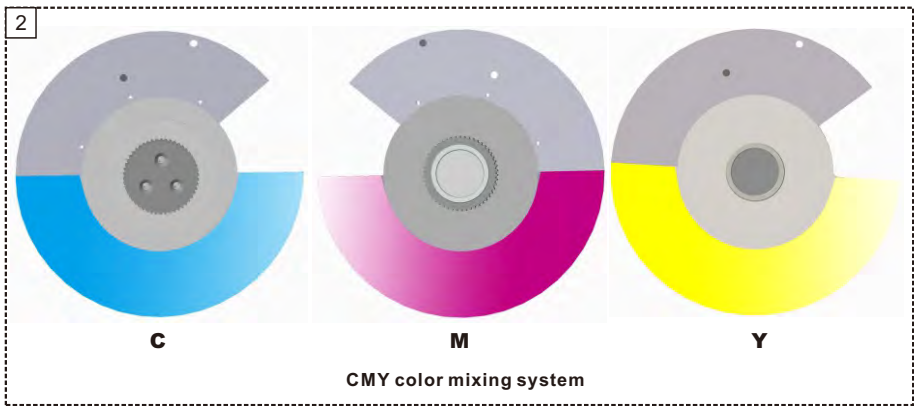
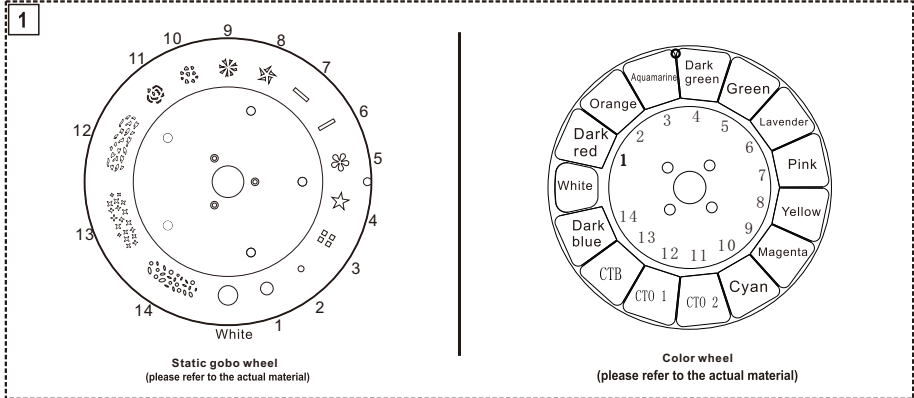
- Protection level: IP66
- Work environment: -20°C ~ 40°C

(Note: When the lamp is working in an environment below zero degrees Celsius and powered on, the bulb needs to be preheated for 30 minutes before resetting all functions of the lamp before it can be used normally.)

- Maximum surface temperature of lamp body: ≤ 80°C

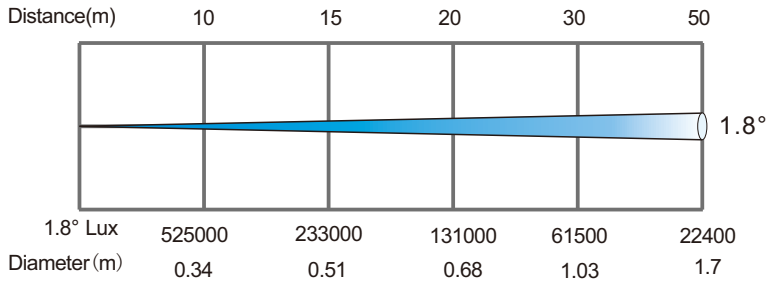
APPROVALS

- The product implementation standard: GB/T 7000.1-2023 、 GB/T 7000.217-2023
- Approved certifications: CE、 RoHs
- The product complies with the following EU directives:
- Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU



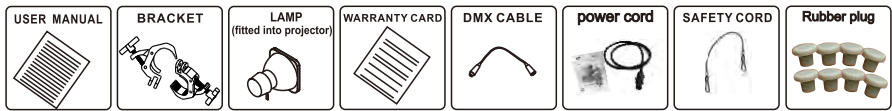
4

illumination diagram



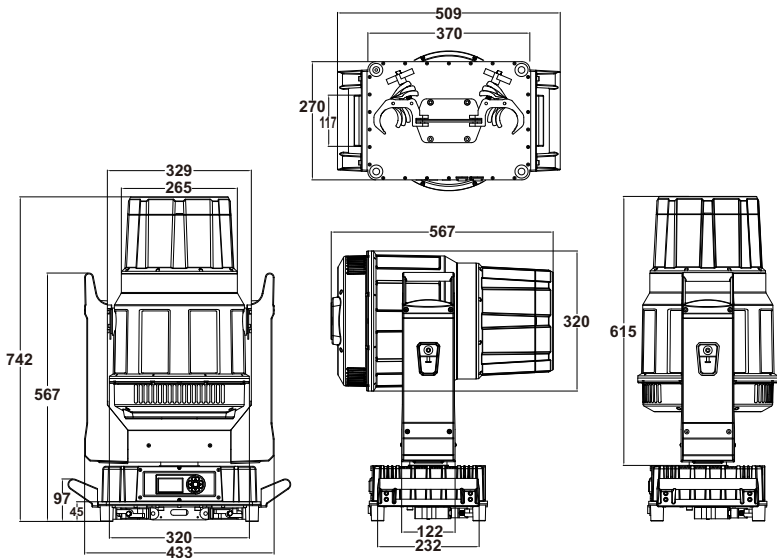
ATTACHMENT AND BODY SIZE

1



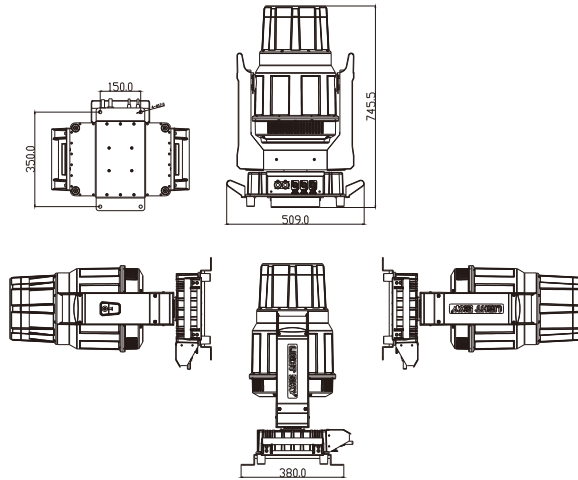
Attachment contents- Fig. 1

2-1



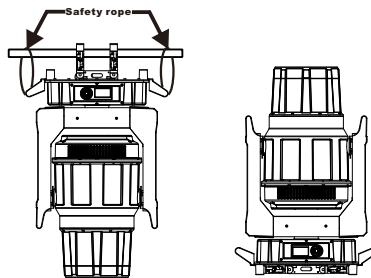
Body Size---Fig 2

2-2



INSTALLATION AND CONNECTING

3



Installing the projector- Fig. 3

The projector 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 projector is positioned on the floor, the safety rope must be fitted.

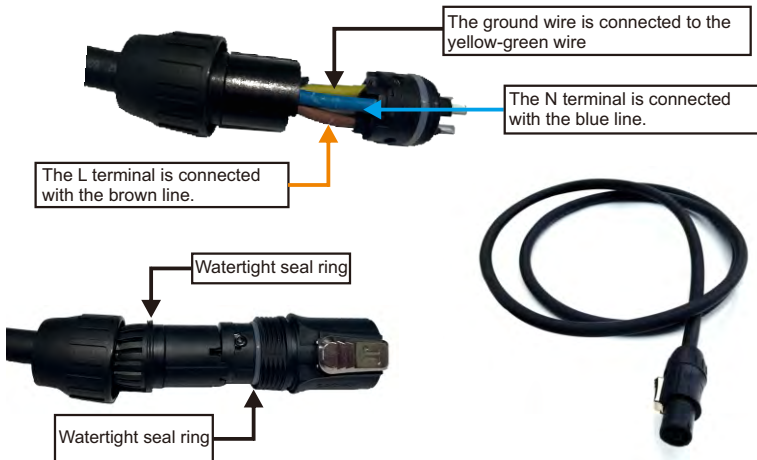
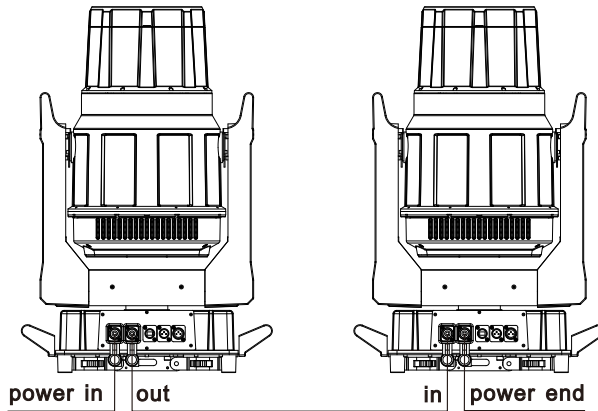
This must be securely fixed to the support structure of the projector and then connected to the base handle.

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.

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.

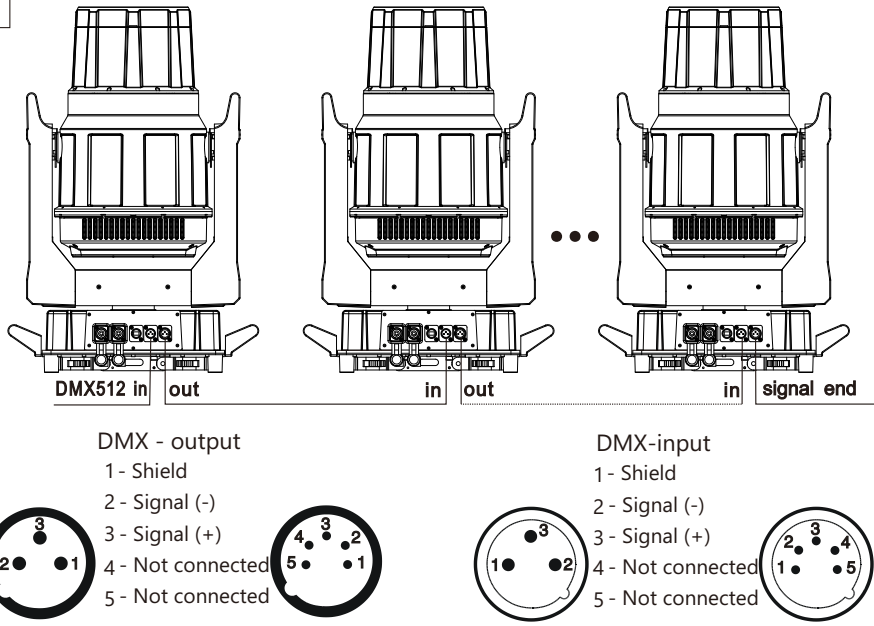
4



Connecting to the mains supply ---Fig 4

- The stage lighting delivers a three-core waterproof plug.
- The stage lighting power supply can not be more than 2pcs pre line.
- Connection to the electricity 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 everything is working normally.

5



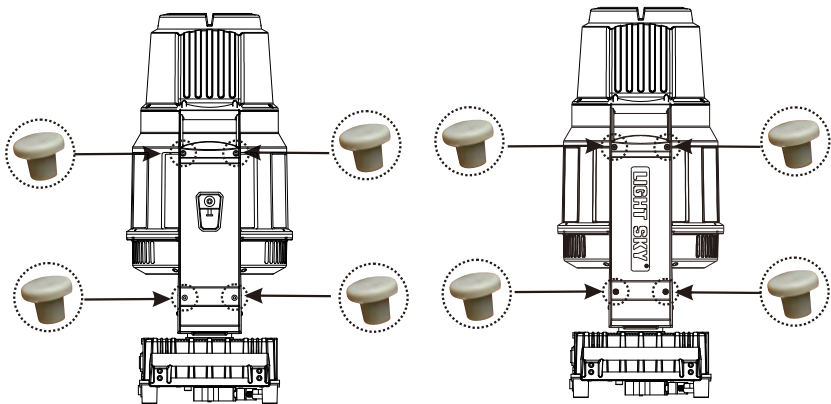
Connecting to the control signal line (DMX) - Fig. 5

© 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

© The projector'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 communication cable is 2-core 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).

© 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.

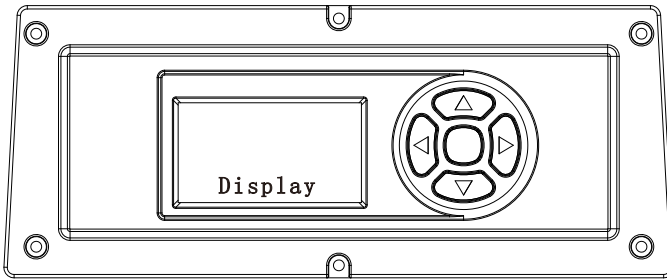
6



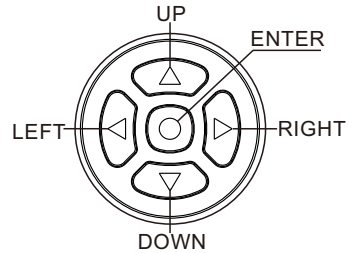
Please install the rubber plug before use.

CONTROL PANEL

7

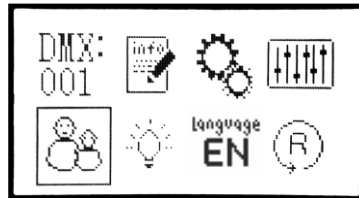


Up arrowhead : page up
 Down arrowhead : page down
 Left arrowhead : reduce
 Right arrowhead : increase
 Enter : OK function
 Exit : in the choice screen



- 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)

8



DMX :
001



Information



Personal



Manual control



Service



Lamp

language

EN Language



Reversal

MENU SETTING(V1.0)

Main menu		I menu	II menu	III menu
DMX Address	→	Address:001-512		
Information		Total Time	→ Power:****(h) Lamp ON:****(h)	
		Lamp hours	→ Total:****(h) Lamp open:****(h)	
		Temperature	→ PVG_TEM:***.* Board:***.*	
		RDM UID	→ RDM UID 3888:00000000	
		MOTOR UID/UID	→ 0000000000000000000000000000000000XY:FA IL	
		Fan speed/Voltag	→ 1.L_Fan:00.0V	
			2.Fan1:00.0V	
			3.Fan2:00.0V	
			4.L_Fan:0000 RPM	
			5.Fan1:0000 RPM	
			6.Fan2:0000 RPM	
			7.Fan3:0000 RPM	
			8.Fan4:0000 RPM	
		DMX live	→ 1.Cyan (***)	
			2.Magenta (***)	
			3.Yellow (***)	
			4.Colour (***)	
			5.Shutter (***)	
			6.Dimmer (***)	
			7.Gobo (***)	
			8.Prism (***)	
			9.PrismRota. (***)	
			10.PrismMacro (***)	
	11.Frost (***)			
	12.Focus (***)			
	13.Pan (***)			
	14.Pan Fine (***)			
	15.Tilt (***)			
	16.Tilt Fine (***)			
	17.Function (***)			
	System version	→ XY Board:V*. **		
		12M Board:V*. **		
		CMY Board:V*. **		
		Fan Board:V*. **		
		Dis Board:V*. **		
		Return(ESC)		

Main menu	I menu	II menu	III menu
Personal	Auto lamp on	→ OFF	
		ON	
	P/T invert	→ Pan invert	→ OFF
			ON
	Display	Tilt invert	→ OFF
			ON
		Language	→ English
			Chinese
		Back Light	→ Open
			Auto close (15s)
Reversal	→ Normal		
	Rota. 180		
Backlight blink	→ ON		
	OFF		
Return (ESC)			
Manual control	Channel control	→ 1. Cyan (***)	
		2. Magenta (***)	
		3. Yellow (***)	
		4. Colour (***)	
		5. Shutter (***)	
		6. Dimmer (***)	
		7. Gobo (***)	
		8. Prism (***)	
		9. PrismROTA. (***)	
		→ 10. PrismMacro (***)	
		11. Frost (***)	
		12. Focus (***)	
		13. Pan (***)	
		14. Pan Fine (***)	
		15. Tilt (***)	
		16. Tilt Fine (***)	
		17. Function (***)	
		Return (ESC)	
	Reset	→ system reset	
		Pan/Tilt reset	
Head motor reset			
Return (ESC)			

Main menu		I menu		II menu		III menu	
	→	Test	→	Test P/T	→	STEP ***	
				Test effect	→	STEP ***	
				Test all	→	STEP ***	
				Return (ESC)			
		Return (ESC)					
Service	→	Error list					
		Clean error	→	Keep			
				Clean			
		Calibration	→	Pan	000-255		
				Tilt	000-255		
				Dimmer1	000-255		
				Dimmer2	000-255		
				Focus	000-255		
				NC	000-255		
				Colour	000-255		
				Stat. Gobo	000-255		
				Prism1	000-255		
				Prism2	000-255		
				PrismRota.	000-255		
				Frost	000-255		
				Cyan	000-255		
				Magenta	000-255		
		Yellow	000-255				
		Return (ESC)					
		Factory	→	Default			
				Time clean			
Developer							
Firmware update							
Manual Fan Vol		OFF					
		ON					

Main menu		I menu		II menu		III menu	
Service	→	Factory	→	Fan Speed To Lamp	→	OFF	
				ON			
		Fan mode	→	→	Return (ESC)		
					Standard mode		
					3000-4000M		
4000-5500M							
Return (ESC)							
Lamp	→	Off					
		On					
Language	→	English					
		Chinese					
Reversal	→	Normal					
		Rota. 180					

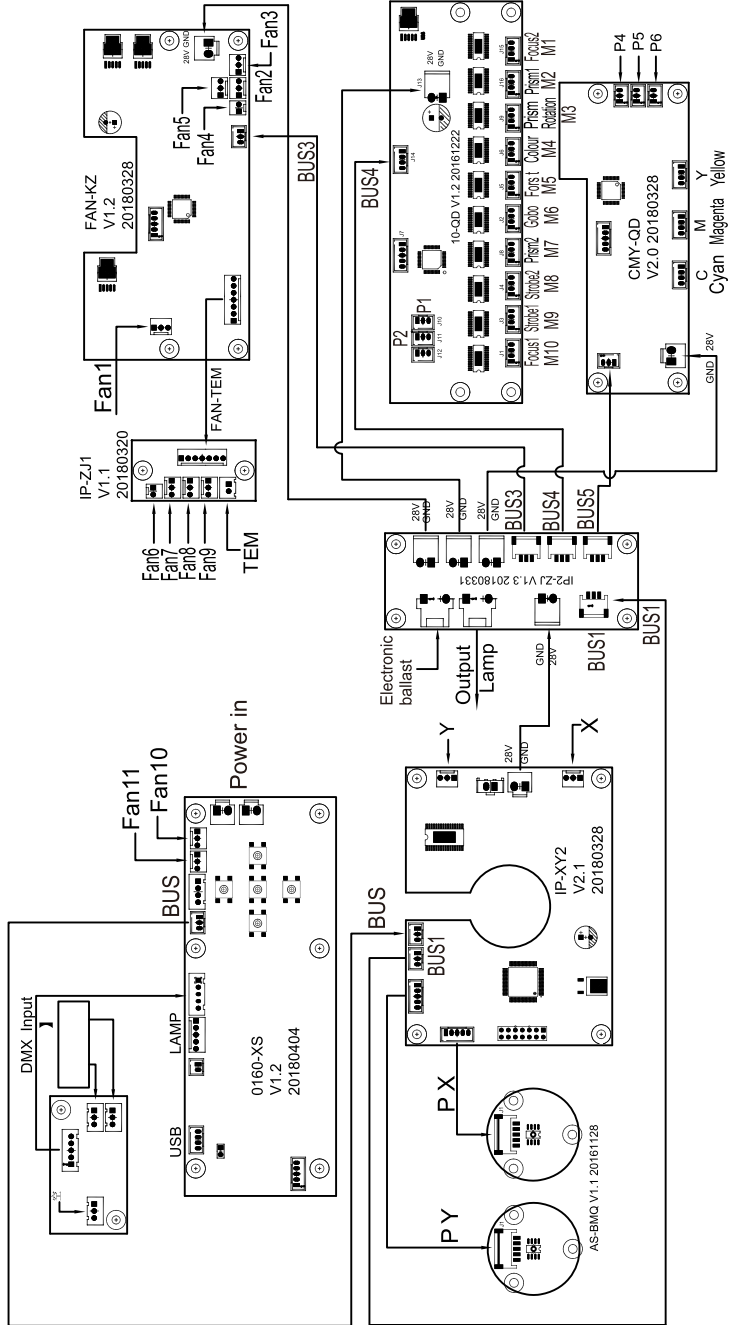
CHANNEL FUNCTION(V1.0)

Channel	DMX	Percentage	Function
1	0-255	0-100	Cyan
2	0-255	0-100	Magenta
3	0-255	0-100	Yellow
4			Colour
	0-4	0-1.56	White
	5-8	1.96-3.14	White+Red
	9-12	3.53-4.71	Red
	13-17	5.10-6.67	Red+Orange
	18-21	7.06-8.24	Orange
	22-25	8.63-9.80	Orange+Aquamarine
	26-29	10.2-11.4	Aquamarine
	30-34	11.8-13.3	Aquamarine+Green
	35-38	13.7-14.9	Green
	39-42	15.3-16.5	Green+Light Green
	43-46	16.9-18.0	Light Green
	47-51	18.4-20.0	Light Green+Lavender
	52-55	20.4-21.6	Lavender
	56-59	22.0-23.1	Lavender+Pink
	60-63	23.5-24.7	Pink
	64-68	25.1-26.7	Pink+Yellow
	69-72	27.0-28.2	Yellow
	73-76	28.6-29.8	Yellow+Magenta
	77-81	30.2-31.8	Magenta
	82-85	32.2-33.3	Magenta+Cyan
	86-89	33.7-34.9	Cyan
	90-93	35.3-36.5	Cyan+CTO 260
	94-98	36.9-38.4	CTO 260/CTO2
	99-102	38.8-40.0	CTO 260+CTO 190/CTO2+CTO1
	103-106	40.4-41.6	CTO 190/CTO1
	107-110	42.0-43.1	CTO 190+CTB 8000/CTO1+CTB
111-115	43.5-45.1	CTB 8000/CTB	
116-119	45.5-46.7	CTB 8000+Blue	
120-123	47.1-48.2	Blue	
124-127	48.6-49.8	Blue+White	
128-191	50.2-74.9	CCW, Fast→Slow Rotation	
192-255	75.3-100	CW, Slow→Fast Rotation	

Channel	DMX	Percentage	Function
5			Strobe
	0-3	0-1.2	Closed
	4-103	1.6-40.4	Slow-Fast Strobe
	104-107	40.8-42.0	Open
	108-157	42.4-61.6	Opening pulses in sequences from slow fast
	158-207	62.0-81.2	Closing pulses in sequences from fast slow
	208-212	81.6-83.1	Open
	213-251	83.5-98.4	Random Slow-Fast Strobe
	252-255	99.8-100	Open
6	0-255	0-100	Dimmer
7			Gobo
	0-3	0-1.2	White
	4-7	1.6-2.7	Gobo1
	8-11	3.1-4.3	Gobo2
	12-15	4.7-5.9	Gobo3
	16-19	6.3-7.5	Gobo4
	20-23	7.8-9.0	Gobo5
	24-27	9.4-10.6	Gobo6
	28-31	11.0-12.2	Gobo7
	32-35	12.5-13.7	Gobo8
	36-39	14.1-15.3	Gobo9
	40-43	15.7-16.9	Gobo10
	44-47	17.3-18.4	Gobo11
	48-51	18.8-20.0	Gobo12
	52-55	20.4-21.6	Gobo13
	56-59	22.0-23.1	Gobo14
	60-73	23.5-28.6	Gobo1 Shake Slow-Fast Speed
	74-87	29.0-34.1	Gobo2 Shake Slow-Fast Speed
	88-101	31.4-39.6	Gobo3 Shake Slow-Fast Speed
	102-115	40.0-45.1	Gobo4 Shake Slow-Fast Speed
	116-129	45.5-50.6	Gobo5 Shake Slow-Fast Speed
	130-143	51.0-56.1	Gobo6 Shake Slow-Fast Speed
	144-157	56.5-61.6	Gobo7 Shake Slow-Fast Speed
	158-171	62.0-67.1	Gobo8 Shake Slow-Fast Speed
	172-185	67.5-72.6	Gobo9 Shake Slow-Fast Speed
	186-199	72.9-78.0	Gobo10 Shake Slow-Fast Speed
	200-213	78.4-83.5	Gobo11 Shake Slow-Fast Speed
	214-227	83.9-89.0	Gobo12 Shake Slow-Fast Speed
	228-241	89.4-94.5	Gobo13 Shake Slow-Fast Speed
	242-255	94.9-100	Gobo14 Shake Slow-Fast Speed

Channel	DMX	Percentage	Function
8	Prism		
	0-63	0-24.7	Unused Range
	64-127	25-49.8	Prism1
	128-191	50.2-74.9	Prism2
	192-255	75.3-100	Prism1+Prism2
9	Prism Rotation		
	0	0	Unused Range
	1-63	0.4-24.7	Angular linear regulation
	Selection of three prism effects: setting prism (prism 1, prism 2 or prism 1+2) in channel 5;		
	64-127	25.1-49.8	CCW, Fast → Slow
	128-191	50.2-74.9	CW, Slow → Fast
	192-207	75.3-81.2	Slow → Fast, 90° Rotating back and forth
	208-223	81.6-87.5	Slow → Fast, 180° Rotating back and forth
	224-239	87.8-93.7	Slow → Fast, 270° Rotating back and forth
	240-255	94.1-100	Slow → Fast, 360° Rotating back and forth
10	Prism Macro		
	0-15	0-5.9	Unused Range
	16-55	6.3-21.6	Fast → Slow, 8 prism free switch
	56-95	22.0-37.3	Fast → Slow, 16prism free switch
	96-135	37.6-52.	Fast → Slow, 8 prism+16prism Simultaneous free switch
	136-175	53.3-68.	Fast → Slow, 8 prism The selected+ 16prism free switch
	176-215	69.0-84.	Fast → Slow 16 prism The selected+ 8prism free switch
	216-255	84.7-100	Fast → Slow , 8 prism and 16prism Interlock switch
11	0-255	0-100	Frost
12	0-255	0-100	Focus
13	0-255	0-100	Pan
14	0-255	0-100	Pan Fine
15	0-255	0-100	TILT
16	0-255	0-100	TILT Fine
17	Function		
	0-25	0-9.8	Unused Range
	26-30	10.2-11.8	Effects Reset
	31-35	12.2-13.7	PAN/TILT Reset
	36-40	14.4-15.7	Complete Reset
	41-180	16.1-70.6	Unused Range
	181-200	71.0-78.4	Lamp OFF
	201-220	78.8-86.3	Unused Range
	221-255	86.7-100	Lamp ON

Circuit connecting diagram



CLEANING AND MAINTENANCES

- In order to ensure the projector could work normally. It should be kept clean always. It is recommended that the fans and ventilation in let should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on dichroic colour filters. It will damage the projector.
- 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 problems.
- Please disconnect the power supply when begin to maintenaceor takedown the light. Please let the parts cool down 10 minute at least then begin to install. If need to replace the lamp, please wait 10 minute again at least to let the lamp cool down completely or which maybe burned down.
- Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or losseness, must change a lamp or fix the lamp in order to avoid the accident.
- The light 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.
- After you use the light, please check the intake place whether there are some wastepaper, please clean it up, or the windmill will break down and causing fire.

TROUBESHOOTING

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

■ Lamp off:

- ◎ Please check if install the suitable lamp.
- ◎ Please check the connection of the power supply or switch is ok.
- ◎ Please check whether the lamp will reach the end of their life can explode, please replace a same description lamp.
- ◎ Please measure if the power supply is enough.
- ◎ Please check if the operation is correct. Please wait 30 minutes at least till the lamp cool down enough, then could the connect the power supply, which could be normal work.
- ◎ Please check whether the DMX 512 controller pass the "turn on" order.
- ◎ Please check the connection of the trigger circuit is loose contact.
- ◎ Please check whether the connected point of the trigger point is loose contact, faster the connect cable.
- ◎ Please check if the switch of the temperature is damaged.
- ◎ Check the bottom box driver board "WK" socket if the resistance 0 between the two line.

■ The light beam is dark, not inhomogeneous:

- ◎ When the lamp is to the usage life, the light 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.
- ◎ Small adjusting is suitable for change height or screw system till get a ideal light beam.

■ **The light shadow is fogging:**

- ⊙ Please check the data on the DMX 512 controller is suitable for the electric focus.
- ⊙ Please check the mechanical parts is jamming. After cleaning, please add some temperature -durable juice.

■ **The light works intermittently:**

- ⊙ Please check if the fan works normally or motor clogging.
- ⊙ Please check whether the abstract heat have the motor clogging.
- ⊙ Please check if the lamp is to the usage life.
- ⊙ Please check if the power supply is enough, the connection of the power supply or the circuit are good.
- ⊙ Please check if the switch of the super-temperature is good.

■ **Though the light is lighting, but it 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 Ω)
- ⊙ The end of the light end and the end resistance.
- ⊙ When the lamp don't cool down enough but do the incorrect operation will let the trigger up to super-high voltage leak. It will damage the electric circuit and communicate IC or CPU. Under this condition, please change the PCB board.

■ **the light can't move:**

- ⊙ Please check if the power supply is suitable for the light voltage data.
- ⊙ Please check the fuse of input voltage is defective.
- ⊙ Please check the light if they are deforming, inside parts is broken, become wet...etc will lead the loose contact.
- ⊙ Please check if the inside lead wire and the connector is loose.
- ⊙ Please check the electric parts (such as the switch, transformer, ballast, electric capacity, piezoresistor, filter, PCB board, controller to motor) is short-circuit or burn down.

■ **Part of the projector couldn't be responded to the controlling order:**

- ⊙ Please check the order is correct to the moving.
- ⊙ Please check the mechanical part is deformation or loose.
- ⊙ Please check the function to the motor socket is loose or drive chip is burn down.
- ⊙ Please check the wire of the motor is cut at zig point.
- ⊙ Please check these function to the motor is damaged.

■ **On working, the pan & tilt couldn't work normally:**

- ⊙ Please check according to the above step by step.
- ⊙ Please check the belt of the X.Y is broken.
- ⊙ Please check the X/Y direction data to the receiver is damage.
- ⊙ Re-projector reset.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

- ◇The lamp belongs to consumption products that is not guarantee to keep it in good repair.
- ◇Any 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.