

LIGHT SKY®

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD



SCOPE BEAM

USER MANUAL

Please read these user manual carefully before use!

LIGHT SKY®

Tel:0086-20-61828288

Fax:0086-20-61828188 Pc:510800

Web:www.lightsky.com.cn

E-mail: flydragon@lightsky.com.cn

asia@lightsky.com.cn

india@lightsky.com.cn

europa@lightsky.com.cn

latinamerica@lightsky.com.cn

middle-east@lightsky.com.cn

american@lightsky.com.cn

Address: No. 43, Yunfeng Road, Xiuquan Street,
Huadu District, Guangzhou, China



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

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

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 properly hooked onto the fitting and secured to the framework.

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



■ 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.



ta40°C

■ Maximum ambient temperature

The fixture is intended for indoor application.

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



■ 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.



t_c 80 °C



■ Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80 °C. Avoid contact by persons and materials. Allow the fixture to cool for at least 15 minutes before handling.



■ Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply. After switching off, do not remove any parts of the fitting.



■ 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.



■ Battery

This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.



The product implementation standard: GB 7000.1-2015 GB7000. 217-2008

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 supply: Electronic auto-ranging
- Input voltage range: 100-240V 50/60Hz;
- Power rating: 350W;
- Power in connector: Neutrik power
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR

SOURCE

- Light source: OSROM White light LED module
- Light source power: 230W
- Median Lifetime: 20000 h
- Luminous Flux: 6850lm
- CCT Light output: 7700K
- CRI: 70

OPTICAL SYSTEM

1. Beam range:
 - 2.3° beam angle
 - 0.8° / 1.5° beam angle selection
2. Output lens diameter: ϕ 163mm
3. Light output: 46948 lux @10m

DYNAMIC EFFECTS

- Colour Wheel: 14 colours + open, Bi-direction rotation and rainbow effect
- Static gobo wheel: 11 Gobos + open + 3 animations range ,Bi-direction flow water
- Prism: 8face prism+16 face double prism,multiple prism combination effect, prism macro effect
- Frost effect: adjustable wash effect angle
- Focus: Motorized focus
- Strobe: Pre-programmed random strobe & pulse effects (05-25Hz/second)
- Dimmer: 0-100% linear adjustment

MOVEMENT

- Pan/ Tilt movement: 540°/250°
- Pan / Tilt Resolution: 2.11°/0.98°
- Movement control: Standard and Speed
- Automatic Pan / Tilt position correction

CONTROL AND PROGRAMMING

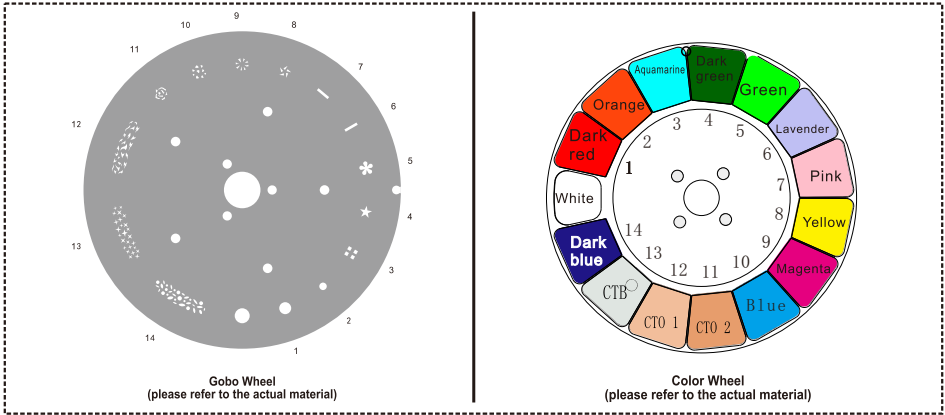
- Setting & Addressing: Automatic charge battery, IP could be set without electricity;
- RDM two-way data transmission, Remote reset DMX address.
- Display: The display panel adopts a 2.0-inch LCD12864
- Intelligent control: Display board can record device's using time, show device's temperature, channel data and software version.
- Error alarm: Automatic alarm for fixture failure
- Software upgrade: Insert USB upgrade software
- Protocols: DMX-512, RDM)
- Control channels: 14CH、16CH、16PLUS

THERMAL SPECIFICATION

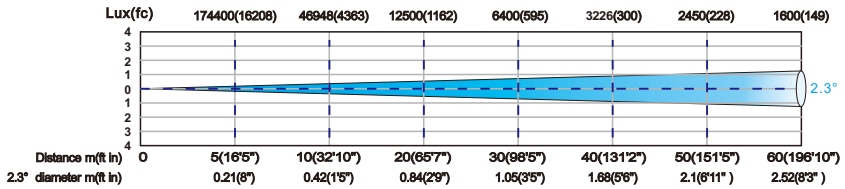
- Maximum ambient temperature: 40 °C
- Maximum housing temperature: 80 °C
- Minimum operating temperature: -20 °C

MECHANICAL SPECIFICATION

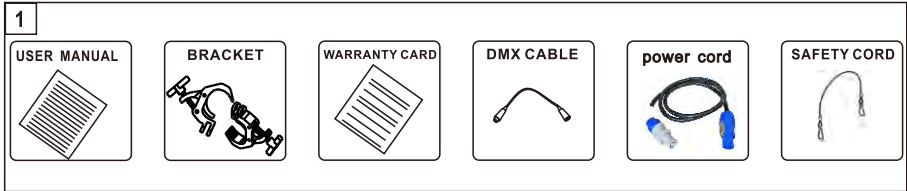
- Integrated foldable hanger design, more convenient for disassembly and transportation
- Heat-proof plastic+module pressing alloy materials.
- Forced ventilation with axial fans.
- Ingress protection rating: IP20
- Product dimension: 380mm×280mm×529mm
- Net weight: 18.8Kg
- Packing dimension (carton): 400mm×345mm×570mm
- Gross weight (carton): 21.2Kg
- Packing dimension (Flycase): 885mm×490mm×740mm
- Gross weight (Flycase): 71.8Kg



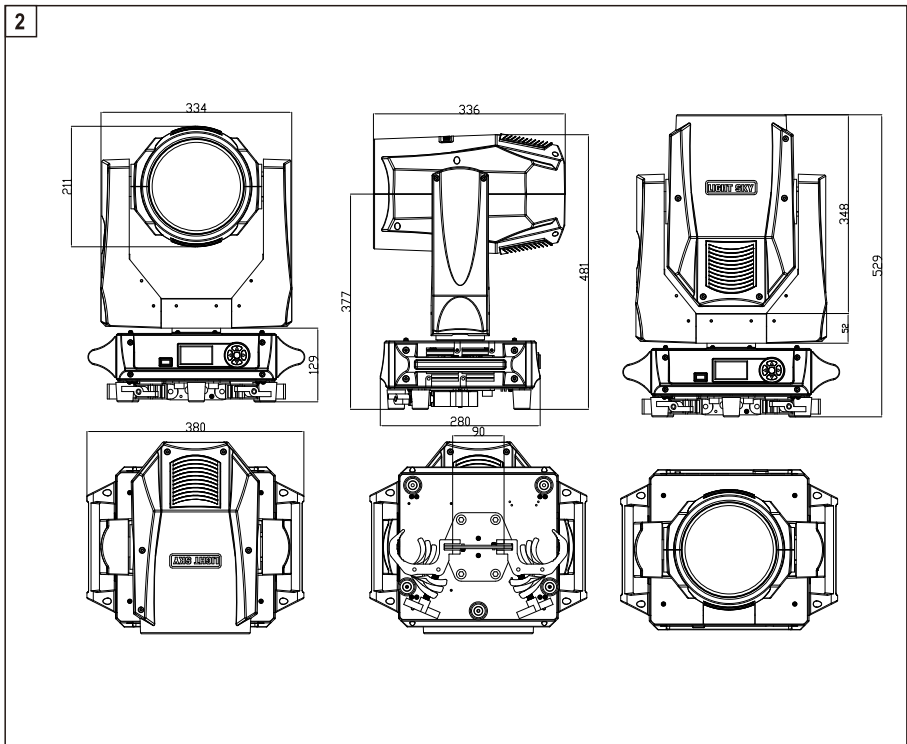
distance, spot diameter and illumination diagram
Standard (2.3°)



ATTACHMENT AND BODY SIZE

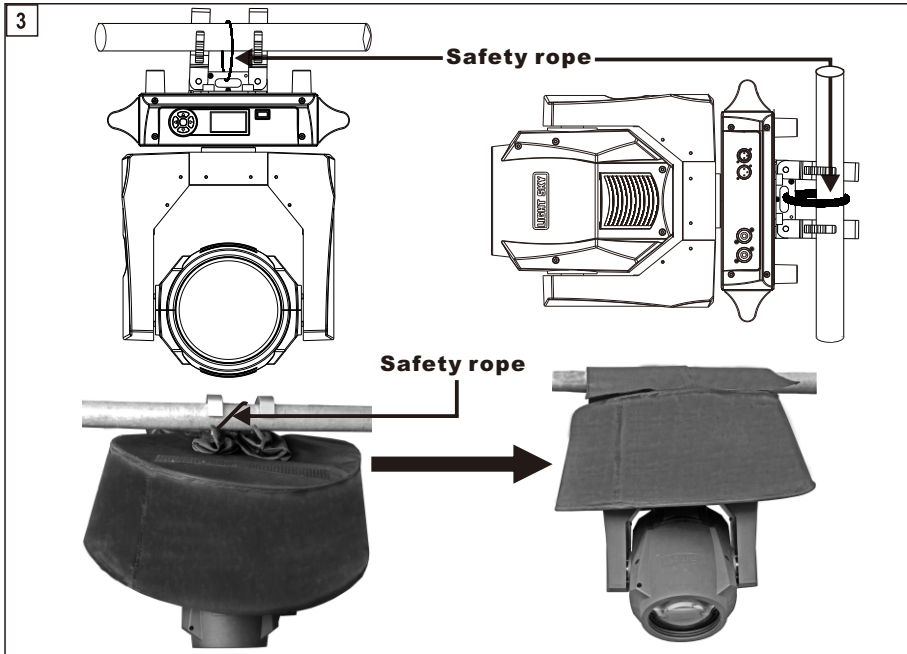


Attachment contents- Fig. 1



Body Size---Fig 2

INSTALLATION AND CONNECTING



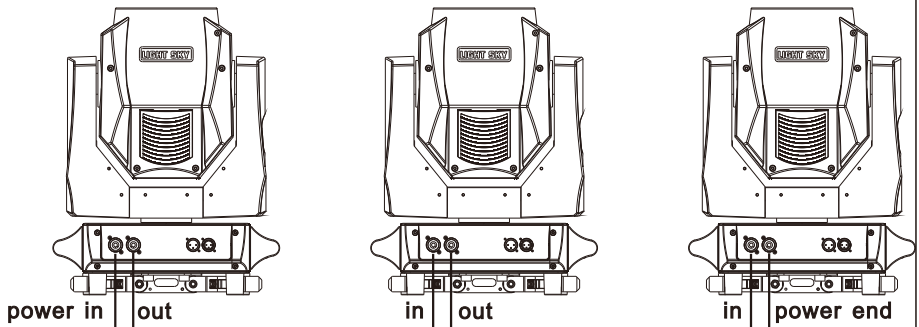
Installing the projector- Fig. 3

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

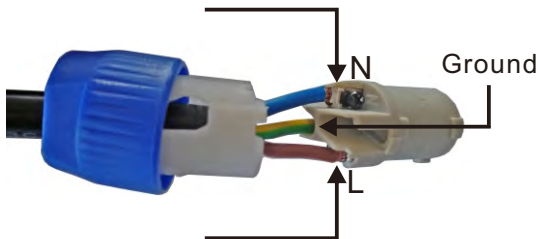
WARNING:with the exception of when the projector is positioned on the floor, the safety rope must be fitted.

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

4



The N terminal is connected with the blue line.



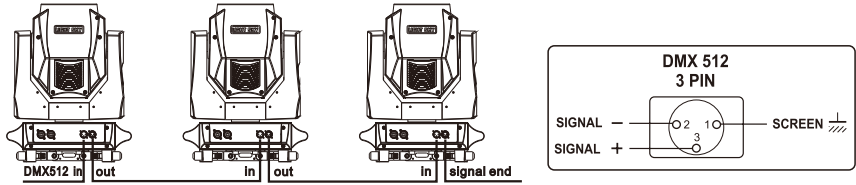
The L terminal is connected with the brown line.



Connecting to the mains supply ---Fig 4

- The stage lighting power supply can not be more than 3pcs pre line, different types of lamps are connected as follows:
- 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 every -thing is working normally.

5



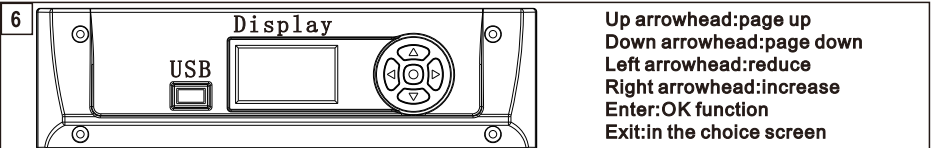
Connecting to the control signal line (DMX) - Fig. 5

© 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 projectors's control signal output or input by using the 3 or 5-pin XLR plug and socket. If need to lengthen the communication cable, please make sure the both side of 3 or 5-pin plug is one to one. (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communication cable is 2-core 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 damage 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 projector in the chain. Refer to the connection.

CONTROL PANEL



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):



MENU SETTING(V1.0)

Main menu	I menu	II menu	III menu	Note
DMX Address	→ Address:001-512			
Information	Total time	Power :***(h)		
		LEDOn:***(h)		
	LEDhours	→ Total :***(h)		
		LEDOn:***(h)		
	Temperature	→ Board :000.0		
	RDM UID	→ Undistributed		
	Fanspeed/Voltag	Fan :00.0V		
		→ IN Fan :0000 RPM OUT Fan :0000 RPM		
	DMX live	1.Colour (***)		
		2.Shutter (***)		
		3.Dimmer (***)		
		4.Gobo (***)		
		5.Prism (***)		
		6.PrismROTA (***)		
7.PrismMacro (***)				
8.Frost (***)				
9.Focus (***)				
10.Pan (***)				
System version	→ XY:V*.**			
	10M:V*.** DIS Board:V*.**			
Return(ESC)				
Personal	Channel mode	→ Standard(16CH)		
		Simple(14CH) 16CHPLUS		
	Fan mode	→ Standard mode		
		Silent mode		
	P/T invert	Paninvert	→ OFF ON	
		Tilt invert	→ OFF ON	
	Display	Language	→ English Chinese Open	
		Back Light	→ Auto close(15s)	
		Reversal	→ Normal Rota.180	
		Backlight blink	→ ON OFF	
Return(ESC)				
Manual control	Channel control	1.Colour (***)		
		2.Shutter (***)		
		3.Dimmer (***)		
		4.Gobo (***)		
		5.Prism (***)		
		6.PrismROTA (***)		
		7.Prism Macro (***)		
		8.Frost (***)		
		→ 9.Focus (***)		
		10.Pan (***)		
		11.Pan Fine (***)		
		12.Tilt (***)		
		13.Tilt Fine (***)		

Main menu	I menu	II menu	III menu	Note	
		14. Function (***)			
		15. Reset (***)			
		16.NC (***)			
	Reset	→	Return(ESC)		
		→	system reset		
		→	Pan/Tilt reset		
	Test	→	Head motor reset		
		→	Test P/T	→ STEP ***	
		→	Test effect	→ STEP ***	
	Service	→	Test all	→ STEP ***	
→		Return(ESC)			
→		Error list			
→		Clean error			
Calibration		→	Keep		
		→	Clean		
		→	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			
Factory	→	Prism1 000-255			
	→	Prism2 000-255			
	→	PrismRota. 000-255			
	→	Frost 000-255			
	→	Return(ESC)			
	→	Default	power on time		
	→	Time clean	lighting time		
	→		total time		
	→		Upgrade font		
	→	Developer	LOGO	LIGHTSKY	
Test	→		customize.LOGO		
	→		No LOGO		
	→		upgrade LOGO		
	→		Fan control		
	→		Return (ESC)		
	→	Firmware update			
	→	Return(ESC)			
	→	Return(ESC)			
	→	Test P/T	→ STEP ***		
	→	Test effect	→ STEP ***		
Language	→	Test all	→ STEP ***		
	→	Return(ESC)			
Reversal	→	English			
	→	Chinese			
	→	Normal			
		Rota.180			

CHANNEL FUNCTION(V1.0)/16CH

Channel	DMX	Percentag	Function	Note
1			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/CTO2	
	94-98	36.9-38.4	CTO260/CTO2	
	99-102	38.8-40.0	CTO260+CTO190/CTO2+CTO1	
103-106	40.4-41.6	CTO190/CTO1		
107-110	42.0-43.1	CTO190+CTB8000/CTO1+CTB		
111-115	43.5-45.1	CTB8000/CTB		
116-119	45.5-46.7	CTB8000+Blue		
120-123	47.1-48.2	Blue		
124-127	48.6-49.8	Blue+White		
128-191	50.2-74.9	CCWFast→Slow Rotation		
192-255	75.3-100	CW Slow→Fast Rotation		
2			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	Slow→Fast, Fast shut slowly open	
	158-207	62.0-81.2	Slow→Fast, Fast open slowly shut	
	208-212	81.6-83.1	Open	
	213-251	83.5-98.4	Random Slow-Fast Strobe	
252-255	99.8-100	Open		
3	0-255	0-100	Dimmer	
			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		

Channel	DMX	Percentag	Function	Note
4	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		
5			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	
6			Prism Rotation	
	0	0	Unused Range	
	1-63	0.4-24.7	Angular linear adjustment	
				Three prism effects are selected: set the prism (prism 1, prism 2 or prism 1+ prism 2) in the 5th channel
	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° to and fro Rotating	
	208-223	81.6-87.5	Slow → Fast, 180° to and fro Rotating	
224-239	87.8-93.7	Slow → Fast, 270° to and fro Rotating		
240-255	94.1-100	Slow → Fast, 360° to and fro Rotating		
7			Prism Macro	
	0-15	0-5.9	Unused Range	
	16-55	6.3-21.6	Fast → Slow, prism 8 Freedom to switch	
	56-95	22.0-37.3	Fast → Slow, prism 16 Freedom to switch	
	96-135	37.6-52.9	Fast → Slow, 8 prism +16 prism can be switched freely at the sametime	
	136-175	53.3-68.6	Fast → Slow, 8 prism selection +16 prism free switching	
	176-215	69.0-84.3	Fast → Slo, 16 prism selection +8 prism free switching	
	216-255	84.7-100	Fast → Slow, Prism 8 and prism 16 interlock switch	
8	0-255	0-100	Frost	
9	0-255	0-100	Focus	

Channel	DMX	Percentag	Function	Note
10	0-255	0-100	Pan	
11	0-255	0-100	Pan Fine	
12	0-255	0-100	TILT	
13	0-255	0-100	TILT Fine	
14	0-255	0-100	Unused Range	
15			Reset	
	0-255		Unused Range	
	26-76		Effects Reset	
	77-127		PAN/TILTReset	
	128-255		Complete Reset	
16			NC	

CHANNEL FUNCTION(V1.0)/16CH PLUS

Channel	DMX	Percentag	Function	Note
1			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/ CTO2	
	94-98	36.9-38.4	CTO260/CTO2	
	99-102	38.8-40.0	CTO260+CTO 190/CTO2+CTO1	
103-106	40.4-41.6	CTO 190/CTO1		
107-110	42.0-43.1	CTO190+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		
2			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	Slow → Fast, Fast shut slowly open	
	158-207	62.0-81.2	Slow → Fast, Fast open slowly shut	
	208-212	81.6-83.1	Open	
	213-251	83.5-98.4	RandomSlow-Fast Strobe	
252-255	99.8-100	Open		
3	0-255	0-100	Dimmer	
4	0-255	0-100	Dimmer fine	
			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	

Channel	DMX	Percentag	Function	Note
5	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	
	60-69	23.5-27.1	Gobo1 Shake Slow - Fast Speed	
	70-79	27.5-31	Gobo2 Shake Slow - Fast Speed	
	80-89	31.4-34.9	Gobo3 Shake Slow - Fast Speed	
	90-99	35.3-38.8	Gobo4 Shake Slow - Fast Speed	
	100-109	39.2-42.7	Gobo5 Shake Slow - Fast Speed	
	110-119	43.1-46.7	Gobo6 Shake Slow - Fast Speed	
	120-129	47.1-50.6	Gobo7 Shake Slow - Fast Speed	
	130-139	51-54.5	Gobo8 Shake Slow - Fast Speed	
	140-149	54.9-58.4	Gobo9 Shake Slow - Fast Speed	
	150-159	58.8-62.4	Gobo10 Shake Slow - Fast Speed	
	160-169	62.7-66.3	Gobo11 Shake Slow - Fast Speed	
	170-179	66.7-70.2	Gobo12 Shake Slow - Fast Speed	
180-189	70.6-74.1	Gobo13 Shake Slow - Fast Speed		
190-199	74.5 -78	Gobo14 Shake Slow - Fast Speed		
200-225	78.4-88.2	Fast - Slow Rotation		
226-229	88.6-89.8	Stop		
230-255	90.2-100	Slow - Fast Rotation		
6			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		
7			Prism Rotation	
	0	0	Unused Range	
	1-63	0.4-24.7	Angular linear adjustment	
			Three prism effects are selected: set the prism (prism 1, prism 2 or prism 1+prism 2) in the 5th channel	
	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° to and fro Rotating	
	208-223	81.6-87.5	Slow → Fast, 180° to and fro Rotating	
224-239	87.8-93.7	Slow → Fast, 270° to and fro Rotating		
240-255	94.1-100	Slow → Fast, 360° to and fro Rotating		
			Prism Macro	
	0-15	0-5.9	Unused Range	

Channel	DMX	Percentag	Function	Note
8	16-55	6.3-21.6	Fast → Slow, prism 8 Freedomto switch	
	56-95	22.0-37.3	Fast → Slow, prism 16 Freedomto switch	
	96-135	37.6-52.9	Fast → Slow, 8 prism +16 prism can be switched freely at the same time	
	136-175	53.3-68.6	Fast → Slow, 8 prism selection +16 prism free switching	
	176-215	69.0-84.3	Fast → Slo, 16 prism selection +8 prism free switching	
	216-255	84.7-100	Fast → Slow, Prism 8 and prism 16 interlock switch	
9	0-255	0-100	Frost	
10	0-255	0-100	Focus	
11	0-255	0-100	Pan	
12	0-255	0-100	Pan Fine	
13	0-255	0-100	TILT	
14	0-255	0-100	TILT Fine	
15	0-255	0-100	UnusedRange	
16			Reset	
	0-25		Unused Range	
	26-76		Effects Reset	
	77-127		PAN/TITL	
	128-255		Complete Reset	

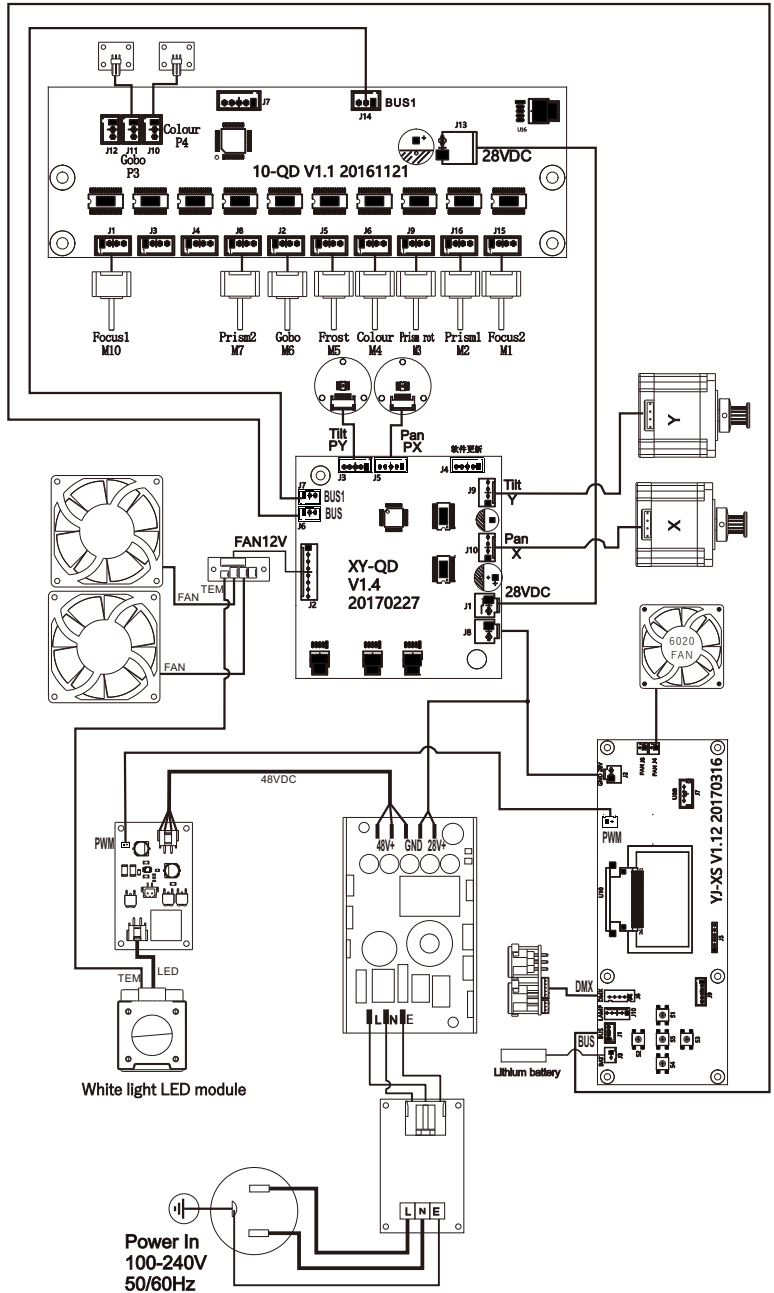
CHANNEL FUNCTION(V1.0)/14CH

Channel	DMX	Percentag	Function	Note
1			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+CTO260		
94-98	36.9-38.4	CTO260/CTO2		
99-102	38.8-40.0	CTO260+CTO190/CTO2+CTO1		
103-106	40.4-41.6	CTO190/CTO1		
107-110	42.0-43.1	CTO190+CTB8000/CTO1+CTB		
111-115	43.5-45.1	CTB8000/CTB		
116-119	45.5-46.7	CTB8000+Blue		
120-123	47.1-48.2	Blue		
124-127	48.6-49.8	Blue+White		
128-191	50.2-74.9	Fast → Slow Rotation		
192-255	75.3-100	Slow → Fast Rotation		
2			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	Slow → Fast, Fast shut slowly open	
	158-207	62.0-81.2	Slow → Fast, Fast open slowly shut	
	208-212	81.6-83.1	Open	
	213-251	83.5-98.4	Random Slow → Fast Strobe	
252-255	99.8-100	Open		
3	0-255	0-100	Dimmer	
4			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	

Channel	DMX	Percentag	Function	Note
4	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		
5			Prism	
	0-63	0-24.7	UnusedRange	
	64-127	25-49.8	Prism1	
	128-191	50.2-74.9	Prism2	
	192-255	75.3-100	Prism1+Prism2	
6			Prism Rotation	
	0	0	UnusedRange	
	1-63	0.4-24.7	Angular linear adjustment	
	64-127	25.1-49.8	8 prism +16 prism from fast to slow,counter clockwise rotation	
	128-191	50.2-74.9	8 prism +16 prism from slow to fast,clockwise rotation	
	192-207	75.3-81.2	Slow → Fast, 90° to and fro Rotating	
	208-223	81.6-87.5	Slow → Fast, 180° to and fro Rotating	
224-239	87.8-93.7	Slow → Fast, 270° to and fro Rotating		
240-255	94.1-100	Slow → Fast, 360° to and fro Rotating		
7			Prism Macro	
	0-15	0-5.9	UnusedRange	
	16-55	6.3-21.6	Fast → Slow, prism 8 Freedomto switch	
	56-95	22.0-37.3	Fast → Slow, prism 16 Freedomto switch	
	96-135	37.6-52.9	Fast → Slow, 8 prism +16 prism can be switched freely at the sametime	

Channel	DMX	Percentag	Function	Note
7	136-175	53.3-68.6	Fast → Slow, 8 prism selection +16 prism free switching	
	176-215	69.0-84.3	Fast → Slo, 16 prism selection +8 prism free switching	
	216-255	84.7-100	Fast → Slow, Prism 8 and prism 16 interlock switch	
8	0-255	0-100	Frost	
9	0-255	0-100	Focus	
10	0-255	0-100	Pan	
11	0-255	0-100	Pan Fine	
12	0-255	0-100	TILT	
13	0-255	0-100	TILT Fine	
14			Function	
	0-25	0-9.8	Unused Range	
	26-30	10.2-11.8	Effects Reset	
	31-35	12.2-13.7	PAN/TILTReset	
	36-40	14.4-15.7	Complete Reset	
	41-180	16.1-70.6	Unused Range	
	181-200	71.0-78.4	Unused Range	
	201-220	78.8-86.3	Unused Range	
	221-255	86.7-100	Unused Range	

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

- 5. The fixture use the strong cool system. It is easy for the dirty to be colleted. 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 .

TROUBLESHOOTING

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 inside lead wire and the connector is loose.
- ⊙ Please check the electric parts(such as the transformer,PCB board,controller) is short-circuit or burn down.

■ The light beam dark, not inhomogeneous.

- ⊙ when the light source is to the usage life, the light source 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 mechanical parts is jamming. After cleaning, please add some temperature - durable grease.

■ Part of the fixture couldn't respond 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.

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.