

FLY DRAGON LIGHTING EQUIPMENT CO., LTD





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Economic AURORA

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 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.

Installtion

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 1 m away from the fixture.

Ensure a minimum clearance of 0.5m around the cooling fans and ventilation.

Do not expose the front glass to sunlight or other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.



Maximum ambient temperature

The fixture is intended for indoor and outdoor 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 gualified 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.

t₀ 100°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 100°C.

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, to avoid getting burnt for at least 30 minutes. After this time the likelihood of the lamp exploding is virtually nill.

The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly Damaged, they have to be replaced with genuine spares.



Lamp

The fitting mounts a high-pressure lamp that needs an external . Immediately replace the lamp if damaged or deformed by heat. 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 lamp.

Minimum distance of illum inated objects

When the luminaire projects an object, the minimum distance of the luminaire to



the flammable object is 12 meters.



Protection against explosion

The protection screen, lens or ultraviolet 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 stare directly into the light output.Never look at an exposed lamp while it is lit.

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

- Power supplies available
- AC100~240V~ 50/60Hz
- Power
- 620W PF0.988
- Lamp
- Brand: OSRAM SIRIUS HRI 471W SN
- Lamp power: 470W
- Colour temperature: 7500K
- CCT Light Output: 6300K
- Average life: 1500h
- Motors
- 23 ultra-quiet motors
- Inputs : DMX512
- Channel 28CH
- Color
- 13 colors + white , Bi-direction rainbow effect
- CRI:≥90
- Static gobo wheel
- 14 static gobos + white,Bi-direction flow water animation effect

Rotation Gobo Wheel

- 9 rotating Gobos + white,Bi-direction flow water animation effect, The inner diameter of the pattern is 11mm and the outer diameter is 15.9mm
- Prism
- -3+1 double prism disc and multiple prism combination effect.
- Beam angle :
- Beam Projection 2-21°, Spot Projection 3-42°
- Frost
- 1 ° and 5 ° two levels of atomization
- Focus and Lens
- High precision optical lens , linear adjustment
- Strobe
- Double lens strobe(0.5-12times/second)
- Dimmer
- 0-100% linear adjustment
- X/Y Travel: 540°/250°
- X/Y Resolution: 2.11°/0.98°
- X/Y Speed: 2.7S/1.6S
- Lighting Size (1sets) : 380X300X654MM
- Box Size : 490X390X725MM
 N.W.: 29.0kg , G.W.: 32.50kg
- Flycase Size (2sets): 890X500X850MM N.W.: 58.00kg, G.W.: 101.00kg

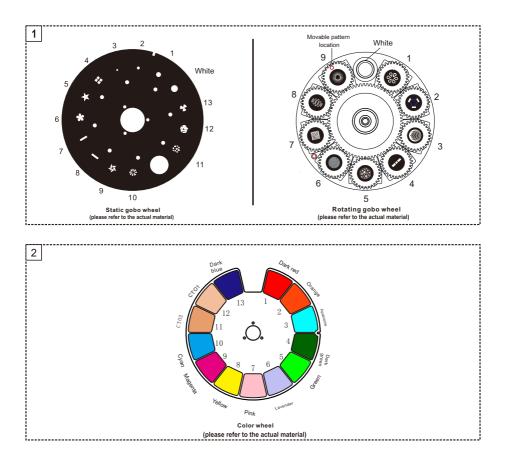
• IP set

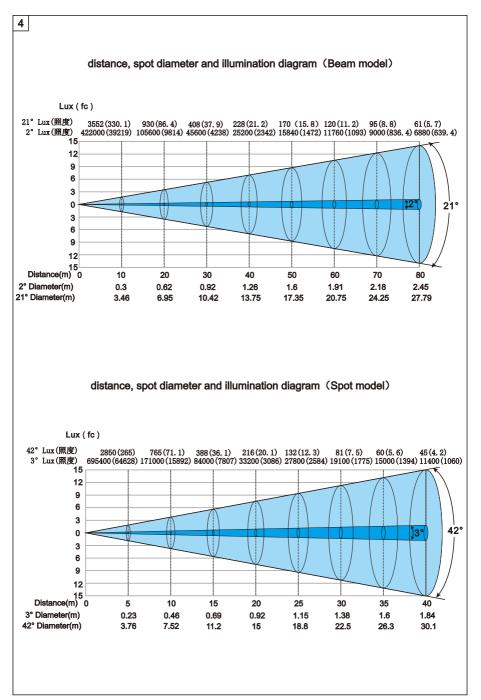
 Automatic charge battery, IP could be set without electricity.

- Software upgrade
- Insert USB upgrade software.
- Display Menu :
- The display panel adopts a 2.0-inch LCD12864 LCD screen, which is used in both Chinese and English languages to facilitate quick operation and browse menus.
- -Display board can record device's using time , show device's temperature, channel data and software version .
- Features
- Remote control lamp's swith function display light and lamp's using time.automaticallay adjust cooling fan's speed,Drop power when strobe lens.
- Remote reset DMX address。
- The built-in gravity induction system can change the heat dissipation of the bulb in different directions of the lamp.
- IP RATE: IP20
- Safety Devices
- BIPOlar circuit breaker with thermal protection.
- Automatic break in power supply in case of overheating or failed operation of cooling system.
- Cooling
- Forced ventilation with axial fans.

Structure

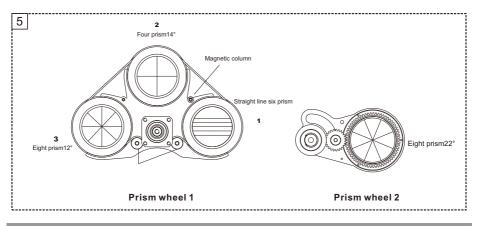
- Heat-proof plastic+module pressing alloy materials.
- •The vertical direction of the use of hidden locking device, convenient transportation and maintenance.
- CE Marking
- In conformity with the European Union Low Voltage Directive 2014/35/EU and Electomagnetic compatibility Directive 2014/30/EU.



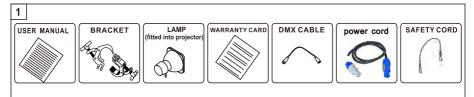


LIGHT SKY

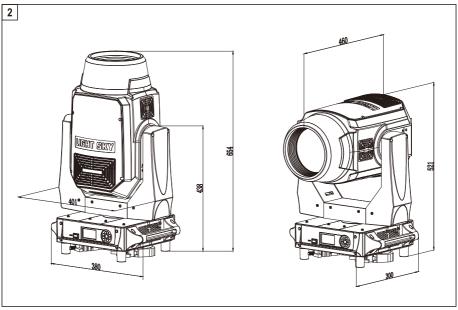
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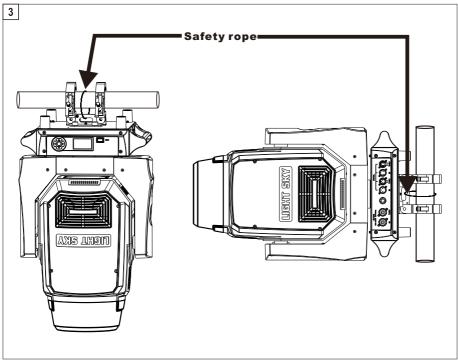
ATTACHMENT AND BODY SIZE



Attachment contents- Fig. 1



Body Size---Fig 2



INSTALLATION AND CONNECTING

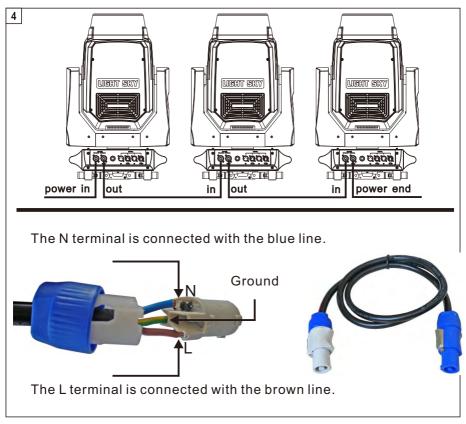
Installing the projector- Fig. 3

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 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.

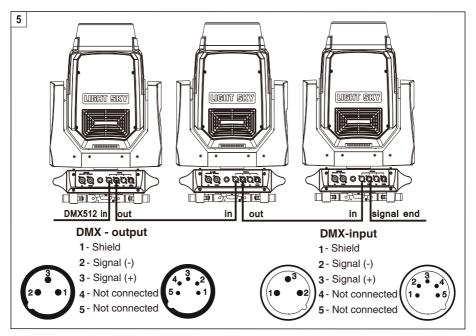


Connecting to the mains suppply ---Fig 4

• 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 every -thing is working normally.

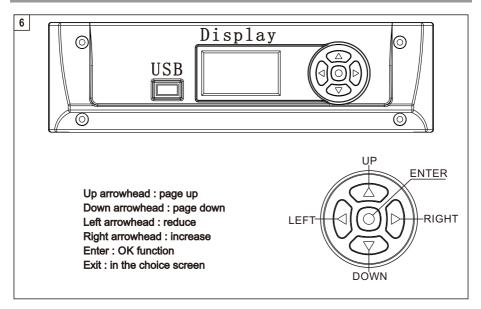


Connecting to the control signal line (DMX) - Fig. 5

- Please use the round 3 or 5-pin XLR plugs &sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third projector's input. And in the same way for the rest, eventually connect the last projector's output, all the projectors are together
- © The projectors's control signal output or input by using the 3 or 5-pin XLR pug and socket. If need to lengthen the communication cable, please make sure the both side of 3 or 5-pin plug is one to one . (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-cord screened cable 75 Ω resistance with each core is at least a 0.5mm diameter. (**Caution:** All the inside leading wire of 3 or 5-pin XLR plug couldn't touch each other or plinth).

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

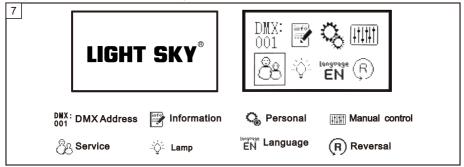
CONTROL PANEL



• 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)



GOBO & BEAM CALIBRATION

∎GOBO

1, Distance 2.5M : Focus channel DMX data set as 50, Zoom Channel DMX data set as 50, Gobo Position : Display board--Menu-Service - Calibration - Gobo Calibration Gobo Focus : Display board -Menu -Service -Calibration -Focus Gobo Size : Display board -Menu -Service -Calibration -Zoom **BEAM**

1, Focus Channel DMX Data set as 185, Zoom Channel DMX data set as 90, Display board--Menu-Service-Calibration-Rotation gobo

MENU SETTING(V1.0)

| Main menu | | I menu | | ll menu | III menu |
|-----------------|----------|--------------------|----------|-----------------------|----------|
| DMX Address/ | → | Address/:001-512 | | | |
| | | Totel Time | → | Power on: :****(h) | |
| | | 间 | 7 | Lamp on: :****(h) | |
| | | Lamp hours | → | Total :****(h) | |
| | | | Ĺ | Lamp open :****(h) | |
| | | Temperature | | E-ballast :000.0 | |
| | | | → | TEMP-Boar :000.0 | |
| | | RDM UID | → | Undistributed | |
| | | MOTOR UID | → | | |
| | | | | 1.U_Fan :00.0V | |
| | | | | 2.Mid_Fan :00.0V | |
| | | | | 3. L_Fan 3&4:00. 0V | |
| | | | | 4. L_Fan 2:00. 0V | |
| | | | | 5. L_Fan 1:00. 0V | |
| | Fan spe | Fan speed/Voltag | → | 6. FAN-1/FAN-1:0000R | |
| | | i un opecu, rereug | | 7. FAN-2/FAN-2:0000R | |
| | | | | 8. FAN-3/FAN-3:0000R | |
| | | | | 9. FAN-4/FAN-4:0000R | |
| | | | | 10. FAN-5:/FAN-5:0000 | |
| | | | | 11.U-Fan 1:0000R | |
| | | | | 12. U-Fan 2:0000R | |
| | | | | 1. Pan *** | |
| | | | | 2.Pan Fine *** | |
| | | | | 3.Tilt *** | |
| | | | | 4.Tilt Fine *** | |
| | | | | 5. P/T *** | |
| | | | | 6.Functions *** | |
| | | | | 7.Color *** | |
| | | | | 8.Color Fine *** | |
| Information | | | | 9.Static Gob *** | |
| | → | | | 10.Rot Gobo *** | |
| | | | | 11.Gobo Rot *** | |
| | | | | 12.Prism 1 *** | |
| | | | | 13.Prism1 Rot *** | |
| | | | | 14.Prism 2 *** | |

| Main menu | I menu | | ll menu | | III menu | |
|--------------|----------------|----------|-------------------|---|----------|---|
| | | | 15.Prism2 Rot *** | | | |
| | | | 16.PrismMacro *** | | | |
| | DMX live | → | 17.Macro Rot *** | | | |
| | | | 18.Frost *** | | | |
| | | | 19.Zoom *** | | | |
| | | | 20.Zoom Fine *** | | | |
| | | | 21.Focus *** | | | |
| | | | 22.Focus Fine *** | | | |
| | | | 23.Focus 2 *** | | | |
| | | | 24.AutoFocus *** | | | |
| | | | 25.Shutter *** | | | |
| | | | 26.Dimmer *** | | | |
| | | | 27.DimmerFine *** | | | |
| | | | 28.Hotspot *** | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | XY Board :V*.** | | | |
| | | | Colour B V*.** | | | |
| | System version | → | Zoom B V*. ** | | | |
| | | | Prism B V*.** | | | |
| | | | DIS Board :V*.** | | | |
| | Return (ESC) | | | | | |
| | | | | | | + |
| | Auto lamp on | | OFF | | | |
| | | → | ON | | | |
| | | | | | 0FF | |
| | P/T invert | | Pan invert | → | ON | |
| | | → | | | 0FF | |
| | | | Tilt invert | → | ON | |
| | | | Return (ESC) | | | + |
| | | | Standard CRI | | | |
| | CRI | | High CRI | | | |
| Personal/ | → | | | | English | |
| | | | Language | → | Chinese | + |

| Main menu | | I menu | | ll menu | | III menu | Τ |
|--------------|---|-----------------|---|--------------------------|------------|---------------|--------|
| | | | | | | Always on | |
| | | | | Backlight | → | Auto off(15s) | |
| Personal | → | Display | + | Detete | → | Normal | |
| | | | | Rotate | 7 | Rotate 180 | |
| | | | | Backlight blink | → | ON | |
| | | | | | Ľ | OFF | |
| | | | | Return(ESC) | | | |
| | | Return (ESC) | | | | | |
| | | | | 1. Pan∕ [≣] *** | | | |
| | | | | 2. Pan Fine *** | | | |
| | | | | 3.Tilt *** | | | \bot |
| | | | | 4. Tilt Fine *** | | | |
| | | | | 5. P/T *** | | | |
| | | | | 6. Functions *** | | | \bot |
| | | | | 7.Color *** | | | |
| | | | | 8.Color Fine *** | | | |
| | | | | 9.Static Gob *** | | | |
| | | | | 10.Rot Gobo *** | | | |
| | | | | 11.Gobo Rot *** | | | |
| | | | | 12.Prism 1 *** | | | |
| | | | | 13.Prism1 Rot *** | | | |
| | | | | 14.Prism 2 *** | | | |
| | | | | 15.Prism2 Rot *** | | | |
| | | | | 16.PrismMacro *** | | | |
| Manual | | Channel control | + | 17.Macro Rot *** | | | Τ |
| control | → | | - | 18.Frost *** | | | |
| | | | | 19.Zoom *** | | | |
| | | | | 20.Zoom Fine *** | | | |
| | | | | 21.Focus *** | | | Т |
| | | | | 22.Focus Fine *** | | | Π |
| | | | | 23.Focus 2 *** | | | Т |
| | | | | 24.AutoFocus *** | | | Π |
| | | | | 25.Shutter *** | | | Τ |
| | | | | 26.Dimmer *** | | | Τ |
| | | | | 27.DimmerFine *** | | | Τ |
| | | | | 28.Hotspot *** | | | Т |

| Main menu | | I menu | | ll menu | | III menu | |
|--------------|--|-------------|-----------------|------------------|--------------|--------------|---------|
| | | | | Return(ESC) | | | Π |
| | | | | System reset | | | T |
| | | | | Pan/Tilt | | | T |
| | | | | Gobo reset | | | Τ |
| | | | | Color reset | | | Т |
| | | Reset | → | Dimmer reset | | | Τ |
| | | | | Zoom reset | | | |
| | | | | Effect reset | | | Τ |
| | | | | Return(ESC) | | | Τ |
| | | | Test P/T | → | STEP *** *** | Ι | |
| | | Test | → | Test effect | → | STEP *** *** | Τ |
| | | Test | 7 | Test all | → | STEP *** *** | Τ |
| | | | | Return(ESC) | | | |
| | | Return(ESC) | | | | | |
| | | Error list | → | | | | |
| | | | Ĺ | | | | |
| | | Clean error | → | Кеер | | | |
| | | | Ĺ | Clean | | | |
| | | | | Pan 000-255 | | | |
| | | | | Tilt 000-255 | | | |
| | | | | Dimmer -255 000 | | | |
| | | | | Effect 000-255 | | | |
| | | | | Focus 000-255 | | | |
| | | | | Zoom 000-255 | | | |
| | | | | Color 000-255 | | | \perp |
| Service | | | | Gobo 000-255 | | | + |
| | | → | Frost 1 000-255 | | | ╇ | |
| | | | | Frost 2 000-255 | | | ╇ |
| | | | | Rot Gobo 000-255 | | | ╇ |
| | | | | Prism 1 000-255 | | | ╇ |
| | | | | Prism 2 000-255 | | | + |
| | | | | Cyan 000*255 | | | |

| Main menu | | I menu | | ll menu | III menu |
|--------------|------------|--------------|----------|-----------------|--------------------|
| Service | → | | | Magenta 000*255 | |
| | | | | Yellow 000*255 | |
| | | | | Return (ESC) | |
| | | | | Load default | |
| | | | | Reset timers | Power on time |
| | | | | Reset timers | Lights on time |
| | | | | | Upgrade word stock |
| | | | | | LOGO choose |
| | | Factory | → | Developer | upgrade LOGO |
| | | | | | TotelTime |
| | | | | | (ESC) |
| | | | | Firmware update | |
| | | | | Return(ESC) | |
| | | return (ESC) | | | |
| 1 | → | Off | | | |
| Lamp | 7 | 0n | | | |
| Language | → | English | | | |
| | [| Chinese | | | |
| Reversal | → | Normal | | | |
| | Ľ | Rota. 180 | | | |

CHANNEL FUNCTION(V1.0)

| Channel | DMX | Percentage | Function | Note |
|---------|---------|------------|--|------|
| 1 | 0-255 | 0-100 | Pan | |
| 2 | 0-255 | 0-100 | Pan Fine | |
| 3 | 0-255 | 0-100 | Tilt | |
| 4 | 0-255 | 0-100 | Tilt fine | |
| | | | Pan/Tilt speed , Pan/Tilt time | |
| | 0 | | Standard mode (0=default) | |
| 5 | 1 | | Max. Speed Mode | |
| | 2-255 | | Speed from max. to min. | |
| | 2 200 | | | |
| | | | Power/Special functions | |
| | 0-9 | | Reserved (0=default) | |
| | 10-14 | | Reserved | |
| | 15-19 | | Reserved | |
| | | | * function is active only10 seconds after switching the fixture on | |
| | 20-24 | | LCD display On | |
| | 25-29 | | LCD display Off | |
| | 23-29 | | | |
| | 30-34 | | High CRI(CRI=90+) | |
| | 35-39 | | Standard CRI (CRI=80) | |
| | 40-44 | | Reserved | |
| | 45-49 | | Reserved | |
| | 50-54 | | Reserved | |
| | 55-59 | | Reserved | |
| | 60-64 | | Reserved | |
| | 65-69 | | Reserved | |
| | 70-74 | | Reserved | |
| | 75-79 | | Reserved | |
| | 80-84 | | Reserved | |
| | 85-89 | | Reserved | |
| 6 | 90-94 | | Reserved | |
| | 95-99 | | Reserved | |
| | 100-101 | | Reserved | |
| | 102-103 | | Reserved | |
| | 104-105 | | Reserved | |
| | 106-107 | | Reserved | |
| | 108-119 | | Reserved | |
| | 120-124 | | Reserved | |
| | 125-129 | | Reserved | |
| | 130-139 | | Lamp On | |
| | 140-149 | | Pan/Tilt reset | |
| | 150-159 | | Colour system reset | |

| Channel | DMX | Percentage | Function | Note |
|---------|----------|------------|-------------------------------------|------|
| | 160-169 | | Gobo wheels reset | |
| | 170-179 | | Dimmer/Shutter reset | |
| | 180-189 | | Zoom/focus/frost/prism wheels reset | |
| | 190-199 | | Effect wheel reset | |
| | 200-209 | | Total reset | |
| | 210-229 | | Reserved | |
| | 230-239 | | Lamp Off | |
| | 240-244 | | Reserved | |
| | 245-249 | | Reserved | |
| | 250-255 | | Reserved | |
| | 0-255 | 0-100 | Colour wheel | |
| | | | Continual positioning | |
| | 0 | | Open/white (O=default) | |
| | 9 | | Deep Red | |
| | 18 | | Orange | |
| | 27 | | Aquamarine | |
| | 37 | | Dark green | |
| | 46 | | Light green | |
| | 55 | | Lavender | |
| | 64 | | Pink | |
| | 73 | | Yellow | |
| | 82 | | Magenta | |
| | 91 | | Cyan | |
| | 101 | | СТО 3200К СТО 2 | |
| | 110 | | СТО 2700К СТО 1 | |
| | 119 | | Dark blue | |
| | 128 –129 | | White | |
| | | | Positioning | |
| | 130 –134 | | Deep Red | |
| 7 | 135 –138 | | Orange | |
| | 139 –143 | | Aquamarine | |
| | 144 –147 | | Dark green | |
| | 148 –152 | | Light green | |
| | 153 –157 | | Lavender | |

| Channe 1 | DMX | Percentage | Function | Note |
|----------|--------------------|------------|--|------|
| | 158 – 161 | | Pink | |
| | 162-166 | | Yellow | |
| | 167-171 | | Magenta | |
| | 172–176 | | Cyan | |
| | 177–180 | | CTO 3200K CTO 2 | |
| | 181 –185 | | CTO 2700K CTO 1 | |
| | 186–189 | | Dark blue | |
| | 190 -215 | | Forwards rainbow effect from fast to slow | |
| | 216 -217 | | No rotation | |
| | 218 -243 | | Backwards rainbow effect from slow to fast | |
| | | | | |
| | 244 -249 | | random colour selection | |
| | 250 -255 | | Auto random colour selection from fast to slow | |
| | | | | |
| 8 | | | Colour wheel - fine positioning | |
| Ů | 0 - 255 | | Fine positioning (O=default) | |
| | | | Staticgobo wheel | |
| | 0–3 | | Open/Hole (O=default) | |
| | | | Positioning | |
| | 4-9 | | Beam reducer1 | |
| | 10-15 | | Beam reducer 2 | |
| | 16-21 | | Beam reducer3 | |
| | 22-27 | | Beam reducer 4 | |
| | 28-33 | | Gobo 1 | |
| | 34-39 | | Gobo 2 | |
| | 40-45 | | Gobo 3 | |
| | 46-51 | | Gobo 4 | |
| | 52-57 | | Gobo 5 | |
| | 58-63 | | Gobo 6 | |
| 9 | 64-69 | | Gobo 7 | |
| | 70 <i>-</i> 75 | | Gobo 8 | |
| | 76-81 | | Gobo 9 | |
| | 82-87 | | Gobo 10 | |
| | | | Shaking gobos from slow to fast | |
| | 88- 9 5 | | Beam reducer1 | |
| | 96-103 | | Beam reducer 2 | |
| | 104-111 | | Beam reducer 3 | |
| | 112-119 | | Beam reducer 4 | |

| Channel | DMX | Percentage | Function | Note |
|---------|-----------|------------|--|------|
| | 120-127 | | Gobo 1 | |
| | 128–135 | | Gobo 2 | |
| | 136-143 | | Gobo 3 | |
| | 144-151 | | Gobo 4 | |
| | 152 –159 | | Gobo 5 | |
| | 160-167 | | Gobo 6 | |
| | 168 –175 | | Gobo 7 | |
| | 176-183 | | Gobo 8 | |
| | 184–191 | | Gobo 9 | |
| | 192–199 | | Gobo 10 | |
| | 200 – 201 | | Open/hole | |
| | 202 –222 | | Forwards gobo wheel rotation from fasttoslow | |
| | 223 –228 | | No rotation | |
| | 229 –249 | | Backwards gobo wheel rotationfrom slow to fast | |
| | 250 - 255 | | Auto random gobo selection from fasttoslow | |
| | | | Rotating gobo wheel | |
| | | | Index -set indexing on channel 16 | |
| | 0 | | Open/Hole (O=default) | |
| | 1-4 | | Hole (flatield) | |
| | 5–16 | | Gobo 1 | |
| | 17–28 | | Gobo 2 | |
| | 29-40 | | Gobo 3 | |
| | 41-52 | | Gobo 4 | |
| | 53-64 | | Gobo 5 | |
| | 65-76 | | Gobo 6 | |
| | 77-88 | | Gobo 7 | |
| | 89–100 | | Gobo 8 | |
| | 101 –112 | | Gobo 9 | |
| 10 | | | Shaking gobo from slow to fast | |
| | | | Index-on set indexing 11 channel | |
| | 113-124 | | Gobo 1 | |
| | 125-136 | | Gobo 2 | |
| | 137-148 | | Gobo 3 | |
| | 149-160 | | Gobo 4 | |
| | 161 –172 | | Gobo 5 | |
| | 173-184 | | Gobo 6 | |
| | 185-196 | | Gobo 7 | |
| | 197 –208 | | Gobo 8 | |
| | 209 - 220 | | Gobo 9 | |
| | 221 –249 | | Open/hole | |
| | 250 - 255 | | Auto random gobo selection from fasttoslow | |

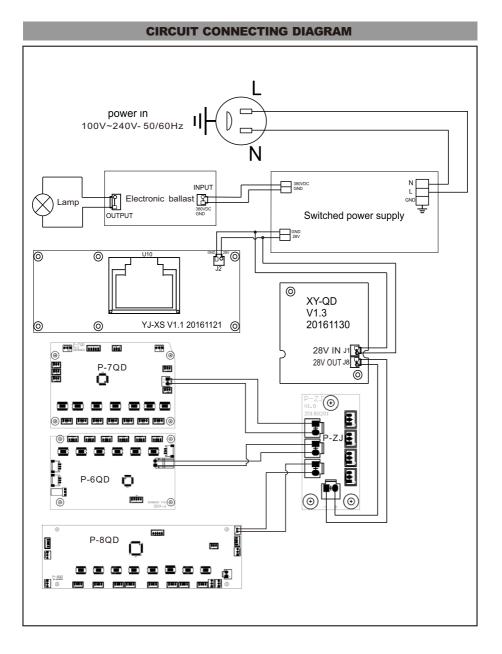
| Channe 1 | DMX | Percentage | Function | Note |
|----------|-----------|------------|--|------|
| | | | Rot. gobo indexing and rotation | |
| | 0 - 127 | | Gobo indexing | |
| 11 | 128 - 187 | | Forwards gobo rotation from fasttoslow | |
| | 188–195 | | No rotation | |
| | 196 -255 | | Backwards gobo rotation from slow tofast | |
| | | | Prism wheel 1 | |
| | | | Thiswheel isblocked If Rotatinggobo wheel >0 DMX | |
| | 0–3 | | Open position/hole (O=default) | |
| | | | Index -set indexing on channel 13 | |
| | 4-15 | | Prism 1-8-facet12° circular | |
| 12 | 16-27 | | Prism 2 -4-facet12° circular | |
| | 28-39 | | Prism 3-6-facetlinear | |
| | | | Rotation-setrotationon channel 13 | |
| | 40-51 | | Prism 1 -8-facet12° circular | |
| | 52-63 | | Prism 2 -cylindrical | |
| | 64-75 | | Prism 3-6 - facetlinear | |
| | 76-255 | | Raw DMX | |
| | | | Prism wheel 1 indexing/rotation | |
| | | | Prism indexing-setposition on channel 12 | |
| | 0 -255 | | Prism 1 indexing | |
| | | | Prism 1 rotation setposition on channel 12 | |
| 13 | 0 | | No rotation | |
| | 1 -127 | | Forwards prism rotation from fasttoslow | |
| | 128 | | No rotation(128=default) | |
| | 129 –255 | | Backwards prism rotationfrom slow to fast | |
| | | | Prism wheel 2 | |
| | 0–3 | | Open position/hole(O=default) | |
| | | | Index-setindexingon channel 15 | |
| 14 | 4–15 | | Prism -8-facet18° circular | |
| | | | Rotation-setrotation on channel 15 | |
| | 16-27 | | Prism -8-facet18° circular | |
| | 28-255 | | Raw DMX | |
| | | | Prism wheel 2 indexing/rotation | |
| | | | Prism indexing -setposition on channel 14 | |
| | 0-255 | | Prism indexing | |
| 15 | | | Prism rotation - set position on channel 14 | |
| 19 | 0 | | No rotation | |
| | 1–127 | | Forwards prism rotation from fasttoslow | |
| | 128 | | No rotation (128=default) | |
| | 129 –255 | | Backwards prism rotation from slow to fast | |

| Channel | DMX | Percentage | Function | Note |
|---------|----------|------------|---|------|
| | | | Pattern sellection | |
| | | | | |
| | | | | |
| | 0–3 | | Open position/hole(O=default) | |
| | | | Index -set indexing on channel 17 | |
| | 4-14 | | Prism macro Index 1 | |
| | 15-25 | | Prism macro Index 2 | |
| | 26-36 | | Prism macro Index 3 | |
| | 37-47 | | Prism macro Index 4 | |
| | 48-58 | | Prism macro Index 5 | |
| | 59-69 | | Prism macro Index 6 | |
| 16 | 70-80 | | Prism macro Index 7 | |
| | | | Rotation -setrotationon channel 17 | |
| | 81-91 | | Prism macro rotation 1 | |
| | 92-102 | | Prism macro rotation 2 | |
| | 103-113 | | Prism macro rotation 3 | |
| | 114-124 | | Prism macro rotation 4 | |
| | 125-135 | | Prism macro rotation 5 | |
| | 136-146 | | Prism macro rotation 6 | |
| | 147-157 | | Prism macro rotation 7 | |
| | 158-168 | | Prism macro rotation 8 | |
| | 169-179 | | Prism macro rotation 9 | |
| | 180-190 | | Prism macro rotation 10 | |
| | 191-255 | | Raw DMX | |
| | | | Pattern rotationand indexing | |
| | | | The channels are blocked: Prism Wheel 1/2 | |
| | | | Pattern indexing -set position on channel 16 | |
| 17 | 0 -255 | | Patternindexing | |
| | | | Pattern rotation-set position on channel 16 | |
| | 0 | | No rotation | |
| | 1–127 | | Forwards pattern rotationfrom fasttoslow | |
| | 128 | | No rotation(128=default) | |
| | 129 –255 | | Backwards patternrotationfrom slow to fast | |
| | | | Frost | |
| | 0 | | Open (O=default) | |
| | | | Light Frost | |
| | | | Max. time of Lightfrost movement 0 \rightarrow 100% (100% \rightarrow 0) is 10 sec. | |
| | 1-50 | | LightFrostfrom 0% to100% | |
| | 51-53 | | 100% LightFrost | |
| | 54-63 | | Pulse closing from slow to fast | |

| Channel | DMX | Percentage | Function | Note |
|----------|------------------|---------------|--|------|
| 18 | 64-73 | | Pulse opening from fasttoslow | |
| | 74-83 | | Ramping from fasttoslow | |
| | 84-86 | | Open | |
| | | | Medium Frost | |
| | | | Max. time of Medium frost movement 0 →100% (100% →0) is10 sec. | |
| | | | | |
| | 87–136 | | Medium Frostfrom 0% to100% | |
| | 137-139 | | 100% Medium Frost | |
| | 140-149 | | Pulse closing from slow to fast | |
| | 150-159 | | Pulse opening from fasttoslow | |
| | 160-169 | | Ramping from fasttoslow | |
| | 170-172 | | Open | |
| | | | Frost Combined | |
| | | | Max. time of Medium frostnovement 0 \rightarrow 100% (100% \rightarrow 0) is 10 sec. | |
| | | | | |
| | 173 <i>–</i> 222 | | Medium Frostfrom 0% to100% (LightFrostinserted) | |
| | 223-225 | | 100% Medium Frost(LightFrostinserted) | |
| | 226-235 | | Pulse closing from slow to fast(bothfrosts together) | |
| | 236-245 | | Pulse opening from fasttoslow (bothfrosts together) | |
| | 246-255 | | Ramping from fasttoslow (bothfroststogether) | |
| | | | Zoom | |
| 19 | 0 - 255 | | Zoom from max. tomin.beam angle(128=default) | |
| | | | Zoom -fine | |
| 20 | 0 - 255 | | Fine zooming (O=default) | |
| 21 | | | Focus | |
| | 0 -255 | | Continuous adjustmentfrom fartonear (128=default) | |
| 22 | | | Focus Fine | |
| <u> </u> | 0 - 255 | | Fine focusing (O=default) | |
| 23 | | | Focus2 AutoFocus on channel 24 | |
| | 0-255 | | AutoFocus | |
| | | | Autofocus (priority&distance selection) | |
| | | | Selectdesireddistanceand effecton which you need to focus and use "Focus2" | |
| | | | channe123 (28) to focus the image. | |
| | | | | |
| | 0–15 | 05. 69 | Autofocus Off | |
| 24 | 16-55 | 5. 69-21. 37 | 10 metres | |
| | 56-95 | 21.37-37.06 | 15 metres | |
| | 96-135 | 37.06-52.75 | 20 metres | |
| | 136–175 | 52. 75-68. 43 | 30 metres | |
| | 176 <i>-</i> 215 | 68. 43–84. 12 | 40 metres | |
| | 216-255 | 84. 12–100 | 50 metres | |

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| Channel | DMX | Percentage | Function | Note |
|---------|----------|------------|---|------|
| 25 | | | Shutter/ strobe | |
| | 0 - 31 | | Shutter closed | |
| | 32 -63 | | Shutter open (32=default) | |
| | 64 -95 | | Strobe-effectfrom slow to fast | |
| | 96 -127 | | Shutteropen | |
| | 128 -143 | | Opening pulse insequences from slow to fast | |
| | 144 -159 | | Closingpulse insequences from fasttoslow | |
| | 160 -191 | | Shutteropen | |
| | 192 -223 | | Random strobeeffect fromslow to fast | |
| | 224 -255 | | Shutteropen, Fulllamp power | |
| 26 | | | Dimmer intensity | |
| | 0 - 255 | | Dimmer intensityfrom 0% to100% (O=default) | |
| 27 | | | Dimmer intensity -fine | |
| <u></u> | 0 - 255 | | Fine dimming (O=default) | |
| 28 | 0 -255 | | Hotspot control | |
| | | | Hotspot control | |



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 reg -ularly 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 unsolutioned problems should always be handle by the professional person. Disconnect the power supply before maintenance the light.

Lamp off:

- OPlease check if install the suitable lamp.
- OPlease 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.
- OPlease 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.
- O Please check whether the DMX 512 controller pass the "turn on" order.
- OPlease 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.
- O Check the bottom box driver board "WK" socket if the resistance 0 between the two line.
- The light beam is dark, not inhomogeneou:
 - When the lamp is to the usage life, the light is not enough, please change a new one for the same description .
 - OPlease check the reflector parts is dirty. Keep them clear.
 - Please measure if the power supply is enough.
 - O 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 machenical parts is jamging. After cleaning, please add some temperature -durable juice.

The light works interruptly:

 $\ensuremath{\mathbb{O}}\xspace$ Please check if the fan works normally or mote clogging.

 $\ensuremath{\mathbb{O}}\xspace$ Please check whether the abstract heat have the mote 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 sup-temperature is good.

Though the light is lighting, but it couldn't accept the control order:

 $\ensuremath{\mathbb{O}}\xspace$ Please check the start code address and the function option are correct.

Please check whether the communicate control cable is ongood connection or the cable is too long or interrupt.

©Please check the control system is not valid, check the singal 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 separ -ately .
- OAdd the signal amplify isolator.
- \bigcirc Signal cable is used the excellent screening doublet (Resistance 75 Ω)
- $\ensuremath{\mathbb O}$ 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 deformating, 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 responsied to the controlling order:

◎ Please check the order is correct to the moving.

 $\ensuremath{\mathbb{O}}\xspace$ Please check the mechanical part is deformation or loose.

OPlease 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.
- \Diamond 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.