## LUNAR MAX

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## CONTENTS

1. Safety Instructions ..... 2
2. Technical Specifications ..... 5
2.1. Attachment And Size ..... 7
3. Color/Gobo/Prism ..... 8
4. Connection and control ..... 9
4.1. Power supply connection ..... 9
4.2. DMX 512 Connection ..... 10
4.3. Control Panel ..... 11
5. How To Set The Unit ..... 11
5.1. Main Function ..... 11
5.2. Channel Setting ..... 19
5.3. Address Setting ..... 19
5.4. DMX 512 Configuration ..... 20
6. Electrical Connection Diagram ..... 29
7. Troubleshooting ..... 30
8. Fixture Cleaning ..... 35
9. Duty exonerative and copyright protectio ..... 35

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

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


## 1.Safety Instructions



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 betore installing, powering or servicing.


Applies only to luminaires directly mounted on surfaces of non-combustible materials


DANGER!
Hazardous voltage.Risk of severe or lethal electric shock.


Warning!
Fire hazard.


Warning! Burn hazard. Hot surface not touch. 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


Indoor use Do not point only
the lens towards the sun or


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.
- This product is for indoor use only. Use only in a dry location.
- Do install and operate by qualified operator.
- The light source in this luminaire should be replaced by the manufacturer or its service agent or a similarly qualified person, always cut off the power supply before replacing he light source.
- Do not allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 20 cm 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 $\mathrm{Ta}: 0^{\circ} \mathrm{C}$. Maximum ambient temperature $\mathrm{Ta}: 40^{\circ} \mathrm{C}$. 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 0.5 m .
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to $80^{\circ} \mathrm{C}$. do not touch the housing bare-handedduring 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.

## 2.Technical Specifications

## OPTICAL

- optics- Light source: OSRAM SIRIUS HRI® 480 SL
- Lamp angle: $1.6^{\circ}\left(\varphi 6 \mathrm{~mm}\right.$ white round hole) $/ 1.2^{\circ}\left(\varphi 4.5 \mathrm{~mm}\right.$ white round hole) / $0.8^{\circ}(\varphi 3 \mathrm{~mm}$ white round hole), flexible switching.
- Optical lens: diameter 200mm
- Color temperature: 6500K
- Color rendering index: $\mathrm{Ra} \geq 80$
- Light degree: 880000 lux @10M


## COLOR

- 14 color chips + white light, can realize two-way color rainbow, two-color step gradient (linear movement), color wheel two-way rotation, random color mode.


## PATTERN

- 1 fixed gobo wheel: 17 gobos + white light, can flowing water and shaking effectsthe.


## EFFECT

-6 rows of prisms +8 prisms +24 prisms +48 prisms: can be rotated in both directions, can be switched independently, and can be superimposed.

- Soft light effect: adjustable independent soft light effect.
- Focus: high-precision electric focus.
- Strobe: 0.5-12 times/second adjustable pulse strobe and random strobe.
- Dimming: 0-100\% linear adjustment.


## CONTROL AND PROGRAMMING

- Control channel: 14CH, 16CH, 16CH PLUS
- Protocol: standard DMX512 protocol, RDM protocol
- Data connection: three-core and five-core signal input/output
- Display: LCD liquid crystal screen


## SOFTWARE

- Software upgrade via USB or DMX interface


## X/Y axis motion Angle

- X-axis: $540^{\circ}$ 8bit/16bit precision scan
- Y-axis: $270^{\circ}$ 8bit/16bit precision scan


## POWER

- Input voltage rangr: AC100-240V 50/60Hz
- Maximum power comsumption: 535W
- Power factor: 0.987


## SIZE \& WEIGHT

- Size: $380 \mathrm{~mm} \times 300 \mathrm{~mm} \times 623 \mathrm{~mm}$
- Standard carton packing (Default -1sets) : $450 \mathrm{~mm} \times 390 \mathrm{~mm} \times 765 \mathrm{~mm}$
- N.W: 22.5 Kg G.W: 26.0 Kg
- Flycase (option-2 sets) : $810 \mathrm{~mm} \times 530 \mathrm{~mm} \times 845 \mathrm{~mm}$
- N.W: 45.0 Kg G.W: 84.5 Kg


## OTHERS

- IP rate: IP20
- Working Ambient: $0^{\circ} \mathrm{C}-40^{\circ} \mathrm{C}$
- Maximum surface temperature of lamp body: $80^{\circ} \mathrm{C}$
- Maximum current of fixture: $5.35 \mathrm{~A} / 110 \mathrm{~V} ; 2.68 \mathrm{~A} / 220 \mathrm{~V}$


## APPROVALS

- The product implementation standard: GB 7000.1-2015 GB7000. 217-2008
- Approved certifications: CE, RoHs
- The product complies with the following EU directives:
- Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU



### 2.1.Attachment And Size

Attachment contents-Fig. 1


Size-Fig. 2


## 3. Color/Gobo/Prism



## 4.Connection and control

### 4.1.Power supply connection



The N terminal is connected with
 is connected with the brown line.

Parallel socket version


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


### 4.2.DMX 512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a $1200 \mathrm{hm} 1 / 4 \mathrm{~W}$ resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a " $Y$ " cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6.3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

### 4.3.Control Panel

1. Display: To show the various menus and the selected function.
2. USB: Used to update software versions
3. Button:

|  | OK confirmation key |
| :---: | :--- |
| $\boldsymbol{\Delta}$ | UP |
| $\boldsymbol{\gamma}$ | DOWN |
| $\boldsymbol{\lambda}$ | To the left |
| $>$ | To the right |

## 5.How To Set The Unit

### 5.1.Main Function

The lamp is powered on. When the system initialization and lamp reset are completed, and the standby interface is displayed on the display screen, press OK to enter the preset menu interface. Use the up/down/left/right keys to select (1) level menu: DMX address, basic information, personality settings, manual control, service options, bulbs, language, screen rotation. The main functions are as follows:



Enter the preset menu interface, select $\square$ function, Press the OK key to enter the lower menu, and use the up/down key to set the lamp address Code (001~497), the default address code of the lamp is 001. After setting, press OK to confirm and return to the upper menu。


- Information

Enter the preset menu interface, select $\square$ function, Press the OK key to enter the lower menu, and use the up/down keys to select the(2) level menu:Total running time, equipment time, equipment temperature, RDM address, fan speed/voltage, equipment channel, software information, exit.
(2) Total Time

Select the Total Time function and press the OK key to enter the lower menu to view the equipment: total power on $(\mathrm{H})$ and total bright bulb $(\mathrm{H})$. Press the OK key or the leftright key to return to the previous menu.

## (2) Totel time function

Select the Totel time function and press the OK key to enter the lower menu to view the equipment: power on time $(\mathrm{H})$ and light on time $(\mathrm{H})$. Press OK key or left/right key to return to the upper menu.

## (2) Equipment temperature

Select the Equipment temperature function, and press OK to enter the lower menu to view the equipment: temperature measurement board temperature. Press the OK key or the leftright key to return to the previous menu.
(2) RDM address

Select the RDM address function and press the OK key to enter the lower menu to view the device:
RDM address information. Press the OK key or the leftright key to return to the previous menu.
(2) Fan speed/voltage

Select the Fan speed/voltage function and press the OK key to enter the lower menu to view the speed of the equipment: blower 1, blower 2, blower 1 and blower 2. Press the OK key or the leff/right key to return to the previous menu.

## (2) DMX live

Select the DMX live function and press the OK key to enter the lower menu to view the channel information of the equipment in the current channel mode. Press the OK key or the left/right key to return to the previous menu.

## (2) Version information

Select the Version information function and press the OK key to enter the lower menu to view the version information of the equipment: XY board, effect board and display board. Press the OK key or the left/right key to return to the previous menu.
(1)
 - Personal

Enter the preset menu interface, select function, press the OK key to enter the lower menu, and use the Up/Down key to select the (2) menu: channel mode, automatic light bulb opening, horizontal and vertical inversion, display setting, exit, press the OK key to enter the lower menu, or press the left key to retum to the upper menu.

## (2) Channel Mode

Select the Channel Mode function and press OK to enter the lower menu. You can use up/down keys to select: standard mode (16CH), simple mode (14CH), 16CH PLUS. Press OK to confirm the selection and return to the upper menu.
(2) Auto lamp on

Select the Auto lamp on function, press the OK key to enter the lower menu, press the Up/Down key to select: On/Off(default), press the OK key to confirm the selection and retum to the upper menu.
(2) P/T invert

Select the P/T invert function, and press OK to enter the lower menu. You can use up/down keys to select: horizontal reverse and vertical reverse. Press OK to confirm the selection and return to the upper menu.

## (2) Display Settings

Select the Display Settings function, press the OK key to enter the lower menu, and use the up/down keys to select the(3)menu: Language, backlight, screen rotation, backlight flashing, and exit. Press the OK key to enter the lower menu, or press the left key to return to the upper menu.
(3) Language

Select the Language function and press OK to enter the lower menu. You can use up/down keys to select Chinese and English. Press OK to confirm the selection and return to the upper menu.
(3) Back Light

Select the Back Light function, press the OK key to enter the lower menu, use the up/down key to select: normally on, automatically off(15S), press the OK key to confirm and return to the upper menu.
(3) Screen rotation

Select the Screen rotation function, press the OK key to enter the lower menu, and use the up/down key to select: normal (default), 180 degree rotation, press the OK key to confirm and return to the upper menu.
(3) Backlight blink

Select the Backlight blink function, press the OK key to enter the lower menu, and use the up/down key to select: open (default), close, press the OK key to confirm and return to the upper menu.
(1) | $41+1 \mid$ - Manual control

Enter the preset menu interface, select $\square$ function, press the OK key to enter the lower menu, and use the up/down keys to select the (2) menu: channel control, reset, test lamps, exit, press the OK key to enter the lower menu, or press the left key to return to the upper menu.
(2) Channel control

Select the Channel control function, press the OK key to enter the lower menu, press the Up/Down key to select each channel of the current channel mode, press the Left/Right key to manually adjust the DMX value of each channel from $0-255$, and press the OK key to retum to the upper menu.

## (2) Reset

Select the Reset function, press the OK key to enter the lower menu, and use the up/down keys to select: system reset (i.e. machine reset), horizontal and vertical reset, head motor reset, and exit. Press the OK key to confirm and execute the selected reset command, and return to the upper menu.
(2) Test Lamp

Select the Test Lamp function, press the OK key to enter the lower menu, and you can use the up/down key to select: test horizontal and vertical, test head effect, overall test, exit, then press the OK key to confirm the selection, and execute the selected test command, and press the OK key or the left/right key to return to the upper menu.
(1)


Enter the preset menu interface, select $\square$ function, press the OK key to enter the lower menu, you can use the up/down keys to select: historical fault information, clear fault information, calibration, factory setting, exit, press the OK key to enter the lower menu, or press the leffright key to return to the upper menu.
(2) Error list

Select the Error list function, press OK to enter the lower menu, you can view the fault record of the whole machine, press OK or left/right to return to the upper menu.

## (2) Clean Error

Select the Clean Error function, press OK to enter the lower menu, use up/down keys to select: Clear, Keep, you can clear or retain the fault records of lamps, press OK to confirm and return to the upper menu.

## (2) Calibration

Select the Calibration function, press the OK key to enter the lower menu, press the Up/Down key to select each channel of the current channel mode, press the Left/Right key to manually fine tune the DMX value of each channel from 0 to 255 (default 128), and press the OK key to return to the upper menu.

## (2) Factory Setup

Select the Factory Setup function, press OK key to enter the sub-menu, you can use the up/down key to select: factory default, time clear, developer, software upgrade, exit, press OK key to enter the sub-menu. Note that the functions under this menu require a password to proceed to the next step.

$$
\begin{equation*}
\therefore \text { - Lamp } \tag{1}
\end{equation*}
$$

Enter the preset menu interface, select function, Press OK key to enter the subordinate menu, you can use the up/down key to select: close (default), open, press OK key to confirm and return to the superior menu.
(1)

```
EN
- Language
```

Enter the preset menu interface, select

function, Press OK to switch between Chinese (default) and English.

Enter the preset menu interface, select ( $)$ function, Press OK to toggle the screen between normal and rotated 180 degrees.


### 5.2.Channel Setting

Enter the MENU menu, select the personality setting function, select the channel mode, press OK button to confirm, you can use the up and down key to select: 16 channel (default), 14 channel, 16 PLUS channel, press OK key to select confirm and return to the next level menu.

### 5.3.Address Setting

Enter MENU, select the DMX setting function, select the address code setting, press the OK button to confirm, the current DMX address will be displayed on the display. Use the up/down buttons to select addresses 001~512, and press the OK button to save. Press the OK button to return to the previous menu.

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

| Channel mode | Unit 1 <br> Address | Unit 2 <br> Address | Unit 3 <br> Address | Unit 4 <br> Address |
| :---: | :---: | :---: | :---: | :---: |
| 16 CH | 1 | 17 | 33 | 49 |
| 14 CH | 1 | 15 | 29 | 43 |
| 16 PLUS CH | 1 | 17 | 33 | 49 |

### 5.4.DMX 512 Configuration

Please control the fixture by referring to the configurations below 16CH

| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $0-4$ $5-8$ $9-12$ $13-17$ $18-21$ $22-25$ $26-29$ $30-34$ $35-38$ $39-42$ $43-46$ $47-51$ $52-55$ $56-59$ $60-63$ $64-68$ $69-72$ $73-76$ $77-80$ $81-85$ $86-89$ $90-93$ $94-98$ $99-102$ $103-106$ $107-110$ $111-115$ $116-119$ $120-123$ $124-127$ $128-191$ $192-255$ | $\begin{gathered} 0-1.56 \\ 1.96-3.14 \\ 3.53-4.71 \\ 5.10-6.67 \\ 7.06-8.24 \\ 8.63-9.80 \\ 10.2-11.4 \\ 11.8-13.3 \\ 13.7-14.9 \\ 15.3-16.5 \\ 16.9-18.0 \\ 18.4-20.0 \\ 20.4-21.6 \\ 22.0-23.1 \\ 23.5-24.7 \\ 25.1-26.7 \\ 27.0-28.2 \\ 28.6-29.8 \\ 30.2-31.8 \\ 32.2-33.3 \\ 33.7-34.9 \\ 35.3-36.5 \\ 36.9-38.4 \\ 38.8-40.0 \\ 40.4-41.6 \\ 42.0-43.1 \\ 43.5-45.1 \\ 45.5-46.7 \\ 47.1-48.2 \\ 48.6-49.8 \\ 50.2-74.9 \\ 75.3-100 \end{gathered}$ | Colour <br> White <br> White+Red <br> Red <br> Red+0range <br> Orange <br> Orange+Aquamarine <br> Aquamarine <br> Aquamarine+Green <br> Green <br> Green+Light Green <br> Light Green <br> Light Green+Lavender <br> Lavender <br> Lavender+Pink <br> Pink <br> Pink+Yellow <br> Yellow <br> Yellow+Magenta <br> Magenta <br> Magenta+Cyan <br> Cyan <br> Cyan+CT0 260 <br> CTO 260 <br> CTO 260+CTO 190 <br> CTO 190 <br> CT0 190+CTB 8000 <br> CTB 8000 <br> CTB 8000+Blue <br> Blue <br> Blue+White <br> Fast-Slow Rotation <br> Slow-Fast Rotation |  |
| 2 | $0-3$ $4-103$ $104-107$ $108-157$ $158-207$ $208-212$ $213-251$ $252-255$ | $\begin{gathered} 0-1.2 \\ 1.6-40.4 \\ 40.8-42.0 \\ 42.4-61.6 \\ 62.0-81.2 \\ 81.6-83.1 \\ 83.5-98.4 \\ 99.8-100 \\ \hline \end{gathered}$ | Strobe <br> Closed <br> Slow-Fast Strobe <br> Open <br> slow $\rightarrow$ fast, fast off and slow on <br> Slow $\rightarrow$ fast, fast on and slow off <br> Open <br> Random Slow-Fast Strobe <br> Open |  |
| 3 | 0-255 | 0-100 | Dimmer |  |
| 4 | $\begin{gathered} 0-3 \\ 4-7 \\ 8-11 \\ 12-15 \\ 16-19 \\ 20-23 \\ 24-27 \\ 28-31 \\ 32-35 \\ 36-39 \\ 40-43 \\ 44-47 \\ 48-51 \\ 52-55 \\ 56-59 \\ 60-63 \end{gathered}$ | 0-1. 2 <br> 1. 6-2. 7 <br> 3. 1-4. 3 <br> 4. 7-5. 9 <br> 6. 3-7. 5 <br> 7. 8-9. 0 <br> 9. $4-10.6$ <br> 11. $0-12.2$ <br> 12. 5-13. 7 <br> 14. 1-15. 3 <br> 15. 7-16. 9 <br> 17. 3-18. 4 <br> 18. 8-20. 0 <br> 20.4-21.6 <br> 22. 0-23.1 <br> 23.5-24.7 | Gobo <br> White <br> Gobol <br> Gobo2 <br> Gobo3 <br> Gobo4 <br> Gobo5 <br> Gobo6 <br> Gobo7 <br> Gobo8 <br> Gobo9 <br> Gobo10 <br> Gobol1 <br> Gobo12 <br> Gobo13 <br> Gobo14 <br> Gobo15 |  |


| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline 64-67 \\ 68-71 \\ 72-81 \\ 82-92 \\ 93-103 \\ 104-114 \\ 115-124 \\ 125-135 \\ 136-146 \\ 147-157 \\ 158-167 \\ 168-178 \\ 179-189 \\ 190-200 \\ 201-210 \\ 211-221 \\ 222-232 \\ 233-243 \\ 244-255 \\ \hline \end{gathered}$ | 25. 0-26. 2 <br> 26. 6-27. 8 <br> 28. 2-31. 7 <br> 32. 1-36. 0 <br> 36. 4-40. 3 <br> 40. 7-44. 7 <br> 45. 0-48. 6 <br> 49. 0-52. 9 <br> 53. 3-57. 2 <br> 57. 6-61.5 <br> 61. 9-65. 4 <br> 65. 8-69. 8 <br> 70. 1-74. 1 <br> 74. 5-78.4 <br> 78.8-82. 3 <br> 82.7-86. 6 <br> 87. 0-90.9 <br> 91. 3-95. 2 <br> 95. 6-100 | Gobo16 <br> Gobo17 <br> Gobol Shake Slow-Fast Speed Gobo2 Shake Slow-Fast Speed Gobo3 Shake Slow-Fast Speed Gobo4 Shake Slow-Fast Speed Gobo5 Shake Slow-Fast Speed Gobo6 Shake Slow-Fast Speed Gobo7 Shake Slow-Fast Speed Gobo8 Shake Slow-Fast Speed Gobo9 Shake Slow-Fast Speed Gobo10 Shake Slow-Fast Speed Gobo11 Shake Slow-Fast Speed Gobo12 Shake Slow-Fast Speed Gobo13 Shake Slow-Fast Speed Gobo14 Shake Slow-Fast Speed Gobo15 Shake Slow-Fast Speed Gobo16 Shake Slow-Fast Speed Gobo17 Shake Slow-Fast Speed |  |
| 5 | $\begin{gathered} 0-63 \\ 64-87 \\ 88-111 \\ 112-135 \\ 136-159 \\ 160-183 \\ 184-207 \\ 208-231 \\ 232-255 \\ \hline \end{gathered}$ | 0-24.7 | Prism <br> Unused Range <br> Prism1 <br> Prism2 <br> Prism3 <br> Prism4 <br> Prism1+Prism2 <br> Prism1+Prism4 <br> Prism2+Prism3 <br> Prism3+Prism4 |  |
| 6 | 0 <br> $1-63$ <br> Three kinds <br> 5th channel <br> $64-127$ <br> $128-191$ <br> $192-207$ <br> $208-223$ <br> $224-239$ <br> $240-255$ | 0 <br> $0.4-24.7$ <br> prism effect <br> $25.1-49.8$ <br> $50.2-74.9$ <br> $75.3-81.2$ <br> $81.6-87.5$ <br> $87.8-93.7$ <br> $94.1-100$ | Prism Rotation <br> Unused Range <br> Angle linear adjustment <br> options: set the prism (prism 1, prism 2 or prism 1+2) in the $\begin{aligned} & \text { Prism rotates Fast } \rightarrow \text { Slow, counterclockwise } \\ & \text { Prism rotates Slow } \rightarrow \text { Fast, clockwise rotation } \\ & \text { Prism rotates Slow } \rightarrow \text { Fast, } 90^{\circ} \text { Rotate back and forth } \\ & \text { Prism rotates Slow } \rightarrow \text { Fast, } 180^{\circ} \text { Rotate back and forth } \\ & \text { Prism rotates Slow } \rightarrow \text { Fast, } 270^{\circ} \text { Rotate back and forth } \\ & \text { Prism rotates Slow } \rightarrow \text { Fast, } 360^{\circ} \text { Rotate back and forth } \\ & \hline \end{aligned}$ |  |
| 7 | $0-15$ $16-27$ $28-39$ $40-51$ $52-63$ $64-75$ $76-87$ $88-99$ $100-111$ $112-123$ $124-135$ $136-147$ $148-159$ $160-171$ $172-183$ $184-195$ $196-207$ $208-219$ $220-231$ $232-243$ $244-255$ | 0-5.9 | Prism Macro <br> Unused Range <br> Fast $\rightarrow$ Slow, Prism1 Free switch <br> Fast $\rightarrow$ Slow, Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism2+ Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism3+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 1 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 1 and prism 4 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 4 are interlocked and switched |  |


| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :--- | :---: |
| 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 | $0-255$ | $0-100$ | bare |  |
|  |  | Reset |  |  |
| 15 | $0-25$ | $26-76$ |  | Unused Range |
|  | $77-127$ |  | Effects Reset |  |
|  |  | PAN/TITL Reset |  |  |
| 16 |  |  | Complete Reset |  |
|  |  | Lamp Control |  |  |
|  |  | Unused Range |  |  |

14 CH

| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $0-4$ $5-8$ $9-12$ $13-17$ $18-21$ $22-25$ $26-29$ $30-34$ $35-38$ $39-42$ $43-46$ $47-51$ $52-55$ $56-59$ $60-63$ $64-68$ $69-72$ $73-76$ $77-81$ $82-85$ $86-89$ $90-93$ $94-98$ $99-102$ $103-106$ $107-110$ $111-115$ $116-119$ $120-123$ $124-127$ $128-191$ $192-255$ | $\begin{gathered} 0-1.56 \\ 1.96-3.14 \\ 3.53-4.71 \\ 5.10-6.67 \\ 7.06-8.24 \\ 8.63-9.80 \\ 10.2-11.4 \\ 11.8-13.3 \\ 13.7-14.9 \\ 15.3-16.5 \\ 16.9-18.0 \\ 18.4-20.0 \\ 20.4-21.6 \\ 22.0-23.1 \\ 23.5-24.7 \\ 25.1-26.7 \\ 27.0-28.2 \\ 28.6-29.8 \\ 30.2-31.8 \\ 32.2-33.3 \\ 33.7-34.9 \\ 35.3-36.5 \\ 36.9-38.4 \\ 38.8-40.0 \\ 40.4-41.6 \\ 42.0-43.1 \\ 43.5-45.1 \\ 45.5-46.7 \\ 47.1-48.2 \\ 48.6-49.8 \\ 50.2-74.9 \\ 75.3-100 \\ \hline \end{gathered}$ | ```Colour White White+Red Red Red+0range Orange Orange + Aquamarine Aquamarine Aquamarine+Green Green Green+Light Green Light Green Light Green+Lavender Lavender Lavender+Pink Pink Pink+Ye11ow Yellow Yellow+Magenta Magenta Magenta+Cyan Cyan Cyan+CT0 260 CTO 260 СТО 260+CTO 190 СТ0 190 СТ0 190+СТВ 8000 CTB 8000 CTB 8000+Blue Blue Blue+White CCW, Fast \(\rightarrow\) Slow Rotation CW, Slow \(\rightarrow\) Fast Rotation``` |  |
| 2 | $\begin{gathered} 0-3 \\ 4-103 \\ 104-107 \\ 108-157 \\ 158-207 \\ 208-212 \\ 213-251 \\ 252-255 \\ \hline \end{gathered}$ | $\begin{gathered} 0-1.2 \\ 1.6-40.4 \\ 40.8-42.0 \\ 42.4-61.6 \\ 62.0-81.2 \\ 81.6-83.1 \\ 83.5-98.4 \\ 99.8-100 \\ \hline \end{gathered}$ | Strobe <br> Closed <br> Slow-Fast Strobe <br> Open <br> slow $\rightarrow$ fast, fast off and slow on <br> Slow $\rightarrow$ fast, fast on and slow off Open <br> Random Slow-Fast Strobe <br> Open |  |
| 3 | 0-255 | 0-100 | Dimmer |  |
| 4 | $\begin{gathered} 0-3 \\ 4-7 \\ 8-11 \\ 12-15 \\ 16-19 \\ 20-23 \\ 24-27 \\ 28-31 \\ 32-35 \\ 36-39 \\ 40-43 \\ 44-47 \\ 48-51 \\ 52-55 \\ 56-59 \\ 60-63 \\ 64-67 \\ 68-71 \\ 72-78 \\ 79-86 \\ 87-93 \end{gathered}$ | 0-1.2 <br> 1. 6-2. 7 <br> 3. 1-4. 3 <br> 4. 7-5. 9 <br> 6. 3-7. 5 <br> 7. 8-9. 0 <br> 9. 4-10. 6 <br> 11. $0-12.2$ <br> 12. 5-13. 7 <br> 14. 1-15. 3 <br> 15. 7-16.9 <br> 17. 3-18. 4 <br> 18. $8-20.0$ <br> 20.4-21.6 <br> 22. 0-23. 1 <br> 23. 5-24. 7 <br> 25. 0-26. 2 <br> 26.6-27. 8 <br> 28. 2-31. 7 <br> 32. 1-36. 0 <br> 36.4-40. 3 | Gobo <br> White <br> Gobol <br> Gobo2 <br> Gobo3 <br> Gobo4 <br> Gobo5 <br> Gobo6 <br> Gobo7 <br> Gobo8 <br> Gobo9 <br> Gobo10 <br> Gobo11 <br> Gobo12 <br> Gobo13 <br> Gobo14 <br> Gobo15 <br> Gobo16 <br> Gobo17 <br> Gobo1 Shake Slow-Fast Speed <br> Gobo2 Shake Slow-Fast Speed <br> Gobo3 Shake Slow-Fast Speed |  |


| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
|  | $94-101$ $102-108$ $109-116$ $117-123$ $124-131$ $132-138$ $139-146$ $147-153$ $154-161$ $162-168$ $169-176$ $177-183$ $184-191$ $192-199$ $200-225$ $226-229$ $230-255$ | 40. 7-44. 7 <br> 45. 0-48. 6 <br> 49. $0-52.9$ <br> 53. 3-57. 2 <br> 57. 6-61. 5 <br> 61. 9-65. 4 <br> 65. 8-69. 8 <br> 70. 1-74. 1 <br> 74. 5-78. 4 <br> 78. 8-82. 3 <br> 82. 7-86. 6 <br> 87. 0-90. 9 <br> 91. 3-95. 2 <br> 91. 3-95. 2 | Gobo4 Shake Slow-Fast Speed Gobo5 Shake Slow-Fast Speed Gobo6 Shake Slow-Fast Speed Gobo7 Shake Slow-Fast Speed Gobo8 Shake Slow-Fast Speed Gobo9 Shake Slow-Fast Speed Gobo10 Shake Slow-Fast Speed Gobo11 Shake Slow-Fast Speed Gobo12 Shake Slow-Fast Speed Gobo13 Shake Slow-Fast Speed Gobo14 Shake Slow-Fast Speed Gobo15 Shake Slow-Fast Speed Gobo16 Shake Slow-Fast Speed Gobo17 Shake Slow-Fast Speed Fast-Slow Rotation(CW) Stop <br> Slow-Fast Rotation (CCW) |  |
| 5 | $\begin{gathered} 0-63 \\ 64-87 \\ 88-111 \\ 112-135 \\ 136-159 \\ 160-183 \\ 184-207 \\ 208-231 \\ 232-255 \\ \hline \end{gathered}$ | 0-24.7 | Prism <br> Unused Range <br> Prism1 <br> Prism2 <br> Prism3 <br> Prism4 <br> Prism1+Prism2 <br> Prism1+Prism4 <br> Prism2+Prism3 <br> Prism3+Prism4 |  |
| 6 | $\begin{gathered} 0 \\ 1-63 \end{gathered}$ | $\begin{gathered} 0 \\ 0.4-24.7 \end{gathered}$ | Prism Rotation <br> Unused Range <br> Angle linear adjustment |  |
|  | Three kinds of prism effect options: set the prism (prism 1, prism 2 or prism 1+2) in the 5th channel |  |  |  |
|  | $\begin{gathered} \hline 64-127 \\ 128-191 \\ 192-207 \\ 208-223 \\ 224-239 \\ 240-255 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 25.1-49.8 \\ 50.2-74.9 \\ 75.3-81.2 \\ 81.6-87.5 \\ 87.8-93.7 \\ 94.1-100 \\ \hline \end{gathered}$ | Prism rotates Fast $\rightarrow$ Slow, counterclockwise Prism rotates Slow $\rightarrow$ Fast, clockwise rotation Prism rotates Slow $\rightarrow$ Fast, $90^{\circ}$ Rotate back and forth Prism rotates Slow $\rightarrow$ Fast, $180^{\circ}$ Rotate back and forth Prism rotates Slow $\rightarrow$ Fast, $270^{\circ}$ Rotate back and forth Prism rotates Slow $\rightarrow$ Fast, $360^{\circ}$ Rotate back and forth |  |
| 7 | $\begin{gathered} 0-15 \\ 16-27 \\ 28-39 \\ 40-51 \\ 52-63 \\ 64-75 \\ 76-87 \\ 88-99 \\ 100-111 \\ 112-123 \\ 124-135 \\ 136-147 \\ 148-159 \\ 160-171 \\ 172-183 \\ 184-195 \\ 196-207 \\ 208-219 \\ 220-231 \\ 232-243 \\ 244-255 \\ \hline \end{gathered}$ | 0-5.9 | Prism Macro <br> Unused Range <br> Fast $\rightarrow$ Slow, Prism1 Free switch <br> Fast $\rightarrow$ Slow, Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism2+ Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism3+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 1 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 1 and prism 4 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 4 are interlocked and switched |  |
| 8 | 0-255 | 0-100 | Frost |  |
| 9 | 0-255 | 0-100 | Focus |  |
| 10 | 0-255 | 0-100 | Pan |  |


| Channe1 | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :--- | :---: |
| 11 | $0-255$ | $0-100$ | Pan Fine |  |
| 12 | $0-255$ | $0-100$ | TILT |  |
| 13 | $0-255$ | $0-100$ | TILT Fine |  |
|  |  | $0-9.8$ | Function |  |
|  | $0-25$ | Unused Range |  |  |
|  | $26-30$ | $10.2-11.8$ | Effects Reset |  |
|  | $31-35$ | $12.2-13.7$ | PAN/TITL Reset |  |
|  | $36-40$ | $14.4-15.7$ | Complete Reset |  |
|  | $41-180$ | $16.1-70.6$ | Unused Range |  |
|  | $181-200$ | $71.0-78.4$ | Lamp 0FF |  |
|  | $201-220$ | $78.8-86.3$ | Unused Range |  |
|  | $221-255$ | $86.7-100$ | Lamp 0N |  |


| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $0-4$ <br> $5-8$ <br> $9-12$ <br> $13-17$ <br> $18-21$ <br> $22-25$ <br> $26-29$ <br> $30-34$ <br> $35-38$ <br> $39-42$ <br> $43-46$ <br> $47-51$ <br> $52-55$ <br> $56-59$ <br> $60-63$ <br> $64-68$ <br> $69-72$ <br> $73-76$ <br> $77-80$ <br> $81-85$ <br> $86-89$ <br> $90-93$ <br> $94-98$ <br> $99-102$ <br> $103-106$ <br> $107-110$ <br> $111-115$ <br> $116-119$ <br> $120-123$ <br> $124-127$ <br> $128-191$ <br> $192-255$ | $\begin{gathered} 0-1.56 \\ 1.96-3.14 \\ 3.53-4.71 \\ 5.10-6.67 \\ 7.06-8.24 \\ 8.63-9.80 \\ 10.2-11.4 \\ 11.8-13.3 \\ 13.7-14.9 \\ 15.3-16.5 \\ 16.9-18.0 \\ 18.4-20.0 \\ 20.4-21.6 \\ 22.0-23.1 \\ 23.5-24.7 \\ 25.1-26.7 \\ 27.0-28.2 \\ 28.6-29.8 \\ 30.2-31.8 \\ 32.2-33.3 \\ 33.7-34.9 \\ 35.3-36.5 \\ 36.9-38.4 \\ 38.8-40.0 \\ 40.4-41.6 \\ 42.0-43.1 \\ 43.5-45.1 \\ 45.5-46.7 \\ 47.1-48.2 \\ 48.6-49.8 \\ 50.2-74.9 \\ 75.3-100 \\ \hline \end{gathered}$ | Colour <br> White <br> White+Red <br> Red <br> Red+0range <br> Orange <br> Orange+Aquamarine <br> Aquamarine <br> Aquamarine+Green <br> Green <br> Green+Light Green <br> Light Green <br> Light Green+Lavender <br> Lavender <br> Lavender+Pink <br> Pink <br> Pink+Yellow <br> Yellow <br> Yellow+Magenta <br> Magenta <br> Magenta+Cyan <br> Cyan <br> Cyan+CT0 260 <br> CT0 260 <br> CTO 260+CTO 190 <br> CT0 190 <br> CT0 190+СTB 8000 <br> CTB 8000 <br> CTB 8000+Blue <br> Blue <br> Blue+White <br> CCW, Fast $\rightarrow$ Slow Rotation <br> CW, Slow $\rightarrow$ Fast Rotation |  |
| 2 | $0-3$ $4-103$ $104-107$ $108-157$ $158-207$ $208-212$ $213-251$ $252-255$ | $\begin{gathered} 0-1.2 \\ 1.6-40.4 \\ 40.8-42.0 \\ 42.4-61.6 \\ 62.0-81.2 \\ 81.6-83.1 \\ 83.5-98.4 \\ 99.8-100 \\ \hline \end{gathered}$ | Strobe <br> Closed <br> Slow-Fast Strobe <br> Open <br> slow $\rightarrow$ fast, fast off and slow on <br> Slow $\rightarrow$ fast, fast on and slow off Open <br> Random Slow-Fast Strobe <br> Open |  |
| 3 | 0-255 | 0-100 | Dimmer |  |
| 4 | $\begin{gathered} 0-3 \\ 4-7 \\ 8-11 \\ 12-15 \\ 16-19 \\ 20-23 \\ 24-27 \\ 28-31 \\ 32-35 \\ 36-39 \\ 40-43 \\ 44-47 \\ 48-51 \\ 52-55 \\ 56-59 \\ 60-63 \\ 64-67 \\ 68-71 \\ 72-78 \\ 79-86 \end{gathered}$ |  | Gobo <br> White <br> Gobol <br> Gobo2 <br> Gobo3 <br> Gobo4 <br> Gobo5 <br> Gobo6 <br> Gobo7 <br> Gobo8 <br> Gobo9 <br> Gobo10 <br> Gobo11 <br> Gobo12 <br> Gobo13 <br> Gobo14 <br> Gobo15 <br> Gobo16 <br> Gobo17 <br> Gobol Shake Slow-Fast Speed <br> Gobo2 Shake Slow-Fast Speed |  |


| Channel | DMX | Percentage | Function | Note |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline 87-93 \\ 94-101 \\ 102-108 \\ 109-116 \\ 117-123 \\ 124-131 \\ 132-138 \\ 139-146 \\ 147-153 \\ 154-161 \\ 162-168 \\ 169-176 \\ 177-183 \\ 184-191 \\ 192-199 \\ 200-225 \\ 226-229 \\ 230-255 \\ \hline \end{gathered}$ |  | Gobo3 Shake Slow-Fast Speed Gobo4 Shake Slow-Fast Speed Gobo5 Shake Slow-Fast Speed Gobo6 Shake Slow-Fast Speed Gobo7 Shake Slow-Fast Speed Gobo8 Shake Slow-Fast Speed Gobo9 Shake Slow-Fast Speed Gobo10 Shake Slow-Fast Speed Gobo11 Shake Slow-Fast Speed Gobo12 Shake Slow-Fast Speed Gobo13 Shake Slow-Fast Speed Gobo14 Shake Slow-Fast Speed Gobo15 Shake Slow-Fast Speed Gobo16 Shake Slow-Fast Speed Gobo17 Shake Slow-Fast Speed Fast-Slow Rotation <br> Stop <br> Slow-Fast Rotation |  |
| 5 | $\begin{gathered} 0-63 \\ 64-87 \\ 88-111 \\ 112-135 \\ 136-159 \\ 160-183 \\ 184-207 \\ 208-231 \\ 232-255 \\ \hline \end{gathered}$ | 0-24.7 | Prism Unused Range Prism1 Prism2 Prism3 Prism4 Prism1+Prism2 Prism1+Prism4 Prism2+Prism3 Prism3+Prism4 |  |
| 6 | $\begin{gathered} 0 \\ 1-63 \end{gathered}$ | $\begin{gathered} 0 \\ 0.4-24.7 \end{gathered}$ | Prism Rotation <br> Unused Range <br> Angle linear adjustment |  |
|  | Three kinds of prism effect options: set the prism (prism 1, prism 2 or prism 1+2) in the 5th channel |  |  |  |
|  | $\begin{gathered} \hline 64-127 \\ 128-191 \\ 192-207 \\ 208-223 \\ 224-239 \\ 240-255 \\ \hline \end{gathered}$ | 25. 1-49. 8 <br> 50. 2-74. 9 <br> 75. 3-81. 2 <br> 81. 6-87. 5 <br> 87. 8-93. 7 <br> 94. 1-100 | $\left\lvert\,$Prism rotates <br> Fast $\rightarrow$ Slow, counterclockwise <br> Prism rotates <br> Slow $\rightarrow$ Fast, clockwise rotation <br> Prism rotates <br> Slow$\rightarrow\right.$ Fast, $90^{\circ}$ Rotate back and forth |  |
| 7 | $\begin{gathered} 0-15 \\ 16-27 \\ 28-39 \\ 40-51 \\ 52-63 \\ 64-75 \\ 76-87 \\ 88-99 \\ 100-111 \\ 112-123 \\ 124-135 \\ 136-147 \\ 148-159 \\ 160-171 \\ 172-183 \\ 184-195 \\ 196-207 \\ 208-219 \\ 220-231 \\ 232-243 \\ 244-255 \\ \hline \end{gathered}$ | 0-5.9 | Prism Macro <br> Unused Range <br> Fast $\rightarrow$ Slow, Prism1 Free switch <br> Fast $\rightarrow$ Slow, Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism2 Free switch <br> Fast $\rightarrow$ Slow, Prism1+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism2+ Prism3 Free switch <br> Fast $\rightarrow$ Slow, Prism3+ Prism4 Free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 1 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 2 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 2 free switch <br> Fast $\rightarrow$ Slow, Prism 3 selected + Prism 4 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 1 free switch <br> Fast $\rightarrow$ Slow, Prism 4 selected + Prism 3 free switch <br> Fast $\rightarrow$ Slow, Prism 1 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 1 and prism 4 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 2 are interlocked and switched <br> Fast $\rightarrow$ Slow, Prism 3 and prism 4 are interlocked and switched |  |


| Channel | DMX | Percentage |  | Function |
| :---: | :---: | :---: | :--- | :---: |
| 8 | $0-255$ | $0-100$ | Frost | Note |
| 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 | $0-255$ | $0-100$ | bare |  |
| 15 | $0-25$ <br> $26-76$ <br> $77-127$ <br> $128-255$ | Reset <br> Unused Range <br> Effects Reset <br> PAN/TITL Reset <br> Complete Reset |  |  |
| 16 | $0-25$ <br> $26-100$ <br> $102-255$ | Lamp Control <br> Unused Range <br> Lamp 0FF <br> Lamp 0N |  |  |

## 6.Electrical Connection Diagram



The position of each fan of the fixture:


## 7.Troubleshooting

## PAN ERROR:

- Check whether there are other items interfering with the operation and reset of the $X$ axis within the operation range.
- Check whether the connecting wire of the X -axis magnetic encoder is in bad contact or disconnected.
- Check whether the connecting wire of the X-axis motor is in bad contact or disconnected.
- Check whether the X -axis magnetic sensing plate is loose, detached or damaged.
- Check whether the relevant circuit of the X -axis motor driver board is damaged.
- Check whether the X -axis motor is damaged.
- Check the display board itself for damage.


## PAN ERROR:

- Check whether there are other items interfering with the operation and reset of the $X$ axis within the operation range.
- Check whether the connecting wire of the X-axis magnetic encoder is in bad contact or disconnected.
- Check whether the connecting wire of the X -axis motor is in bad contact or disconnected.
- Check whether the X -axis magnetic sensing plate is loose, detached or damaged.
- Check whether the relevant circuit of the X -axis motor driver board is damaged.
- Check whether the X -axis motor is damaged.
- Check the display board itself for damage.


## TILT ERROR:

- Check whether there are other items within the operation range of the Y -axis to interfere with its operation and reset.
- Check whether the connection line of the Y-axis magnetic sensing plate is in bad contact or disconnected.
- Check whether the connecting wire of the Y -axis motor is in bad contact or disconnected.
- Check whether the Y axis magnetic sensing plate is loose, shed or damaged.
- Check whether the relevant circuit of Y -axis motor driver board is damaged.
- Check whether the Y-axis motor is damaged.
- Check the display board itself for damage.


## FIXGOBO ERROR:

- Check whether there are other items within the operation range of fixed pattem plate to interfere with its operation and reset.
- Check whether the connection line of the magnetic sensing plate of the fixed pattern plate is in bad contact or disconnected.
- Check whether the connection wire of the fixed pattern plate motor is in bad contact or disconnected.
- Check whether the fixed pattern plate magnet is loose, falling off or damaged.
- Check whether the magnetic sensing plate of the fixed pattern plate is loose, shed or damaged.
- Check whether the relevant circuit of the motor driver plate of the fixed pattern plate is damaged.
- Check whether the fixed pattern plate motor is damaged.
- Check the display board itself for damage.


## COLOUR ERROR:

- Check whether there are other items within the operating range of the color disk to interfere with its operation and reset.
- Check whether the connecting wire of the magnetic sensing plate of the color disk is in bad contact or disconnected.
- Check whether the connecting wire of the color plate motor is in bad contact or disconnected.
- Check whether the color disk magnet is loose, detached or damaged.
- Check whether the magnetic sensing plate of the color plate is loose, shed or damaged.
- Check whether the circuit related to the color disk motor drive board is damaged.
- Check whether the color plate motor is damaged.
- Check the display board itself for damage.


## PRISM ERROR:

- Check whether there are other items interfering with the operation and reset of the prism within the scope of its rotation.
- Check whether the apron on the rotating belt wheel of the prism is loose, shed or damaged.
- Check whether the prism rotation magnetic sensing plate is loose, falling off or damaged.
- Check whether the relevant circuit of the drive board of the prism revolution motor is damaged.
- Check whether the prism revolution motor is damaged.
- Check the display board itself for damage.


## PRISM 1 ERROR:

- Check whether there are other items in the operation range of prism 1 to interfere with its operation and reset.
- Check whether the running motor wire of prism 1 is loose or falling off.
- Check whether the relevant circuit of prism 1 motor drive board is damaged.
- Check whether the prism 1 motor is damaged.
- Check the display board itself for damage.


## PRISM 2 ERROR:

- Check whether there are other items in the operation range of prism 2 to interfere with its operation and reset.
- Check whether the running motor wire of prism 2 is loose or falling off.
- Check whether the relevant circuit of prism 2 motor drive board is damaged.
- Check whether the prism 2 motor is damaged.
- Check the display board itself for damage.


## PRISMROT ERROR:

- Check whether the prism rotating motor wire is loose or falling off.
- Check whether the relevant circuit of the rotating drive plate of the prism is damaged.
- Check whether the prism rotating motor is damaged.
- Check the display board itself for damage.


## FROST ERROR:

- Check whether the atomizing motor wire is loose or falling off.
- Check whether the atomization driver board related circuit is damaged.
- Check whether the atomizing rotating motor is damaged.
- Check the display board itself for damage.


## DIMMER ERROR:

- Check whether the dimming 1 motor wire is loose or falling off.
- Check whether the related circuit of dimming 1 driver board is damaged.
- Check whether the dimming 1 rotating motor is damaged.
- Check the display board itself for damage.


## DIMMER 2 ERROR:

- Check whether the dimming 2 motor wire is loose or falling off.
- Check whether the related circuit of dimming 2 driver board is damaged.
- Check whether the dimming 2 rotating motor is damaged.
- Check the display board itself for damage.


## LAMP FAN1 ERROR:

- Check whether the related wires of blower 1 are loose or fall off.
- Check whether the relevant circuit of blower 1 drive board is damaged.
- Check whether blower 1 itself is damaged.
- Check the display board itself for damage.


## LAMP FAN2 ERROR:

- Check whether the related wires of blower 2 are loose or fall off.
- Check whether the related circuit of blower 2 drive board is damaged.
- Check whether blower 2 itself is damaged.
- Check the display board itself for damage.


## IN FAN ERROR:

- Check whether the inlet fan related wires are loose or fall off.
- Check whether the relevant circuit of the drive plate of the intake fan is damaged.
- Check whether the intake fan itself is damaged.
- Check the display board itself for damage.


## OUT FAN ERROR:

- Check whether the wire related to the outlet fan is loose or falling off.
- Check whether the relevant circuit of the drive plate of the outlet fan is damaged.
- Check whether the outlet fan itself is damaged.
- Check the display board itself for damage.


## PVG ERROR :

For other reasons, please contact the manufacturer after sale.

## PVG UART ERROR:

- Check whether the ballast communication wire is loose or falling off.
- Check whether the ballast itself is damaged.
- Check the display board itself for damage.


## PVG TEMP HIGHT:

- Check whether the ballast cooling fan is running normally.
- Check whether the ballast itself is damaged.
- Check the display board itself for damage.


## PVG LOW VOLTAGE:

- Check whether the ballast input voltage is normal.
- Check whether the ballast itself is damaged.
- Check the display board itself for damage.


## 8.Fixture Cleaning

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

* A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
* Always dry the parts carefully.
* Clean the external optical lens at least every 20 days and the internal optical lens every 30 days.


## CAUTION!!!

## Disconnect from mains before starting maintenance operation.

## 9.Duty exonerative and copyright protectio

* Light source belongs to consumption products, not within the scope of warranty.
* The manufacturer shall not bear any responsibility for any damage caused by failure to operate in accordance with this instruction.
* All the information in this manual shall be interpreted by the manufacturer.
* All the information in this manual shall not be copied without permission.
* The data contained in this statement are subject to change in the future without prior notice.

