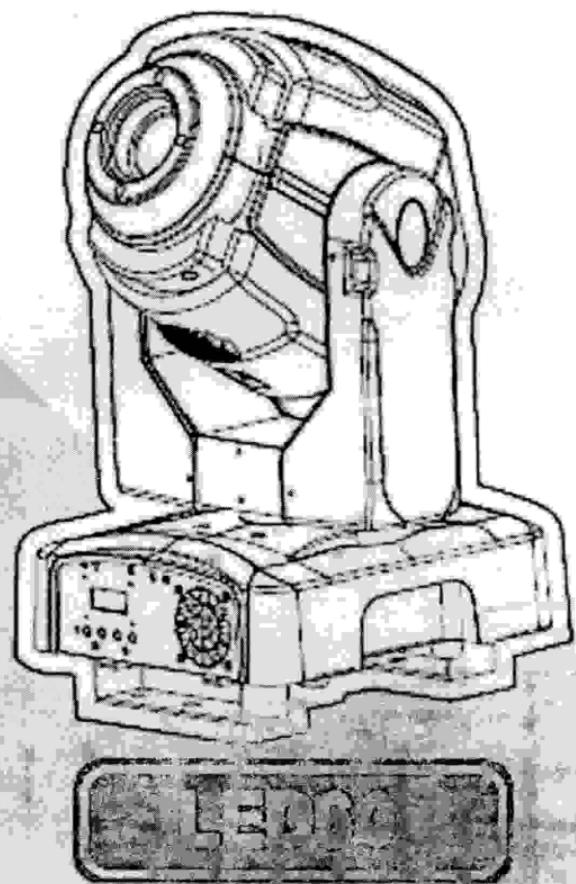


# 60W LED SPOT

## USER MANUAL



*light*  
**BIG**  
DESIGN BY GERMANY

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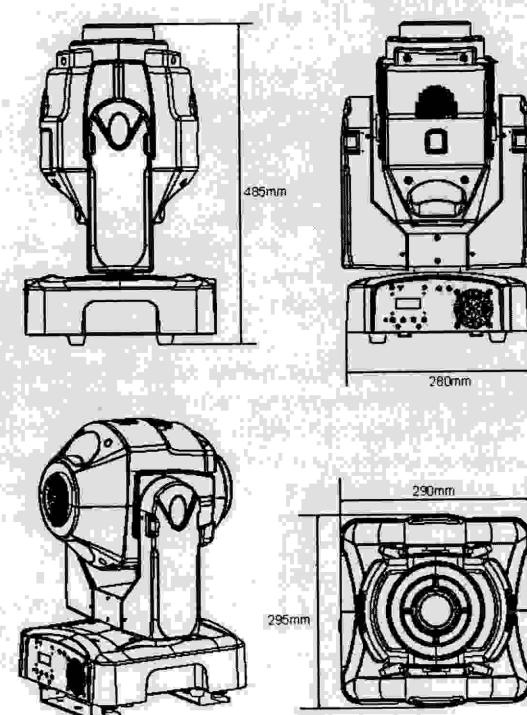


## 1 PRODUCT(GENERAL)

### 1.1 PRODUCT INTRODUCTION

This product is designed for indoor use only. Suitable for stage, bar or nightclub applications. Direct input of DMX512 signal allows the fixtures to be controlled from any DMX512 controller. The fixture is fully programmable with one custom program available and is supplied with two automatic programs (all accessible from DMX512 controller). This product can be operated as a single unit or with multiple units for large applications.

### 1.2 PRODUCT OVERVIEW



## 1.3 PRODUCT SPECIFICATIONS

### Electrical

- ◆ Voltage: AC 100~240V, 50/60Hz
- ◆ Rated Power: 150W

### LED

- ◆ LED: 1PC(60W white)
- ◆ Cooling: Forced air convection

### Optical System

- ◆ Focus: Electronic focus
- ◆ Dimmer: 0~100%
- ◆ Strobe: 0~20Hz
- ◆ Rotating 3-facet Prism

### Operation

- ◆ Control mode: DMX512/Master-Slave/Auto/Custom/Sound
- ◆ LCD display
- ◆ DMX512 Chs: 11CHS/ 14CHS

### Pan/Tilt

- ◆ Pan 540° Tilt 270°
- ◆ Pan/Tilt speed
- ◆ User-selectable Pan/Tilt ranges
- ◆ Reverse Pan/Tilt movement

### Rotating Gobo

- ◆ 7 Gobo (interchangeable)
- ◆ Gobo-flow effect
- ◆ Gobo shake
- ◆ Bi-directional rotation

### Static Gobo

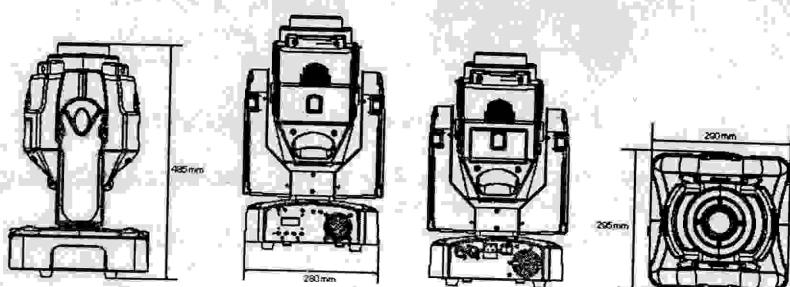
- ◆ 9 Gobo
- ◆ Gobo-flow effect
- ◆ Gobo shake

### Color

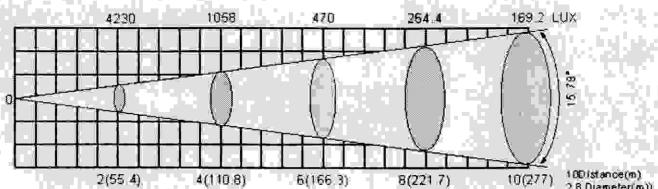
- ◆ 8 dichroic - filters + white
- ◆ Rainbow - flow effect

### Other features

- ◆ Custom program (255 steps)
- ◆ Size: 295x290x485mm
- ◆ Weight: 14kg



## 1.4 PHOTOMETRIC DATA



## 1.5 SAFETY WARNING

### IMPORTANT:

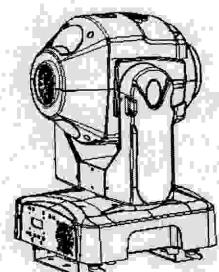
- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5mm must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting any maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.
- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correctly and securely.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

## 2 INSTALLATION

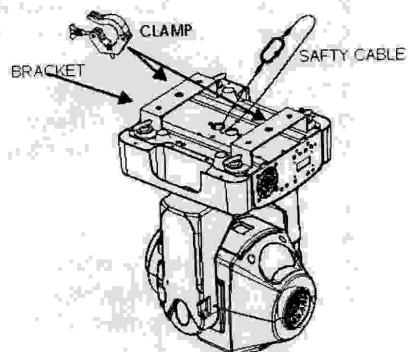
### 2.1 MOUNTING:

● The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that there will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.

● When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.



UPRIGHT



HANGING

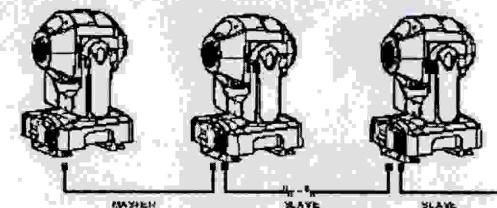
#### IMPORTANT SAFETY NOTE!!

Always use a safety cable when installing this unit!!  
Be sure that the safety cable is connected to a solid load-bearing structure.

### 2.2 SETTING UP (MASTER/SLAVE)

When units are connected in series using DMX512 signalable connect the units as shown in the diagram below

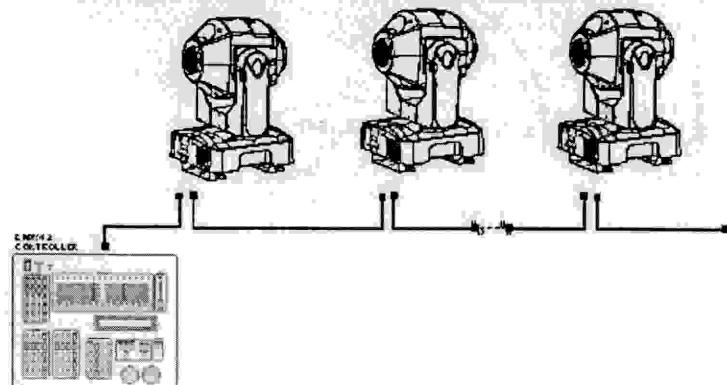
- Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first (MASTER) fixture
- Connect the end of the cable coming from the MASTER fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
- Then proceed to connect from the output as stated above to the input of the following fixture and so on.
- Set the first unit in the series to one of the STAND ALONE modes as described in section 2.2
- All other units in the series should be set to <SLAVE> from the <operation> menu.



### 2.3 SETTING UP (DMX512 CONTROLLER)

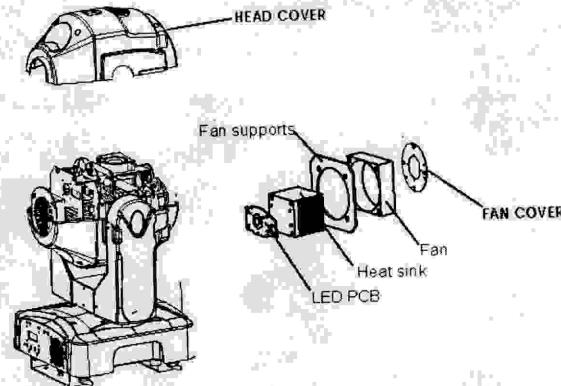
When units are connected in series to a DMX512 controller and other DMX512 equipment, connect the equipment as shown in the diagram below.

- Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller
- Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
- Then proceed to connect from the output as stated above to the input of the following fixture and so on.
- If over 32 pcs fixtures connected, the amplifier is needed.



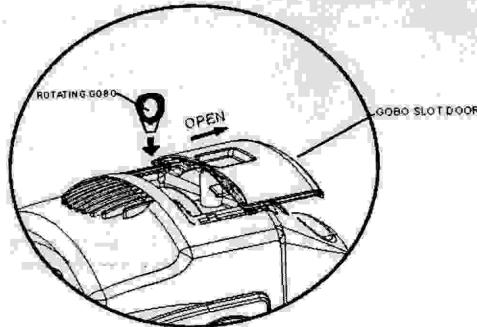
## 2.4 LED PCB REPLACEMENT

- Take off the head cover.
- Remove the fan cover, fan, fan supports, heatsink step by step.
- Replace the new LED PCB.
- Install all parts on the original position.



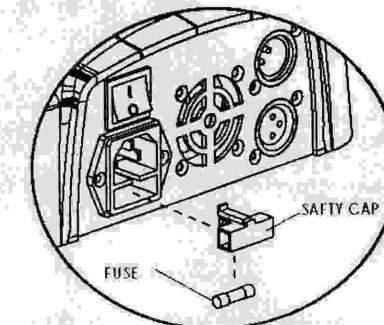
## 2.5 GOBO REPLACEMENT

- Unlock the gobo cover;
- Take out the target rotating gobo.
- Install the new rotating gobo, lock the gobo slot door.



## 2.6 FUSE REPLACEMENT

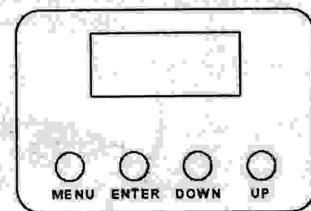
- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



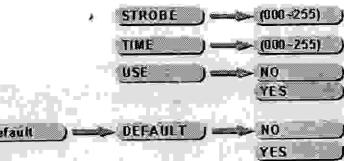
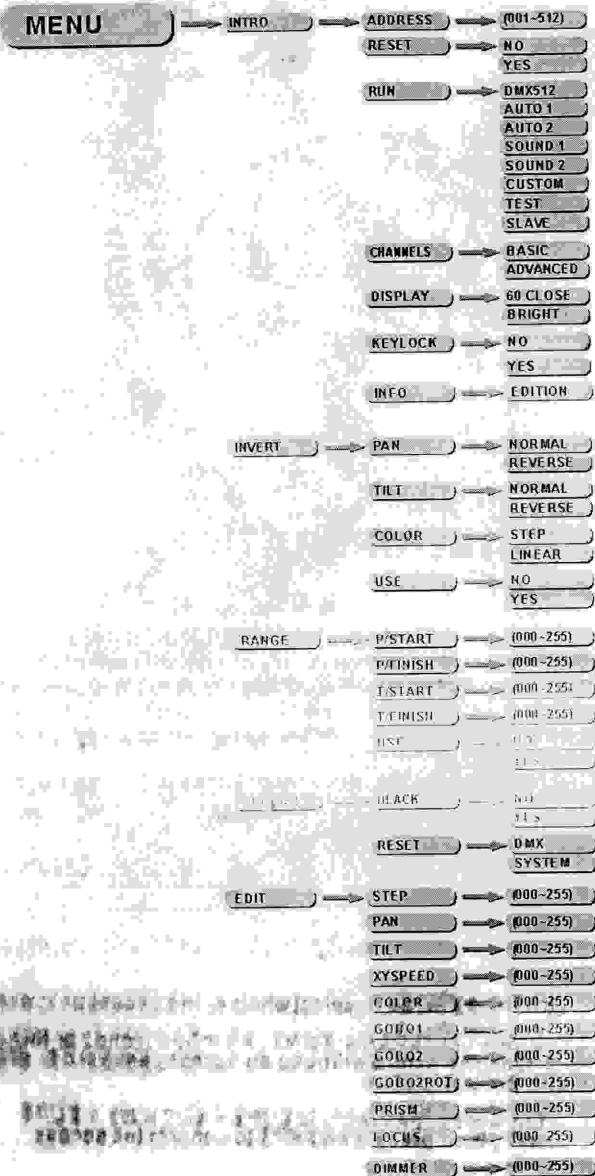
## 3 DISPLAY PANEL OPERATION

### 3.1 BASIC

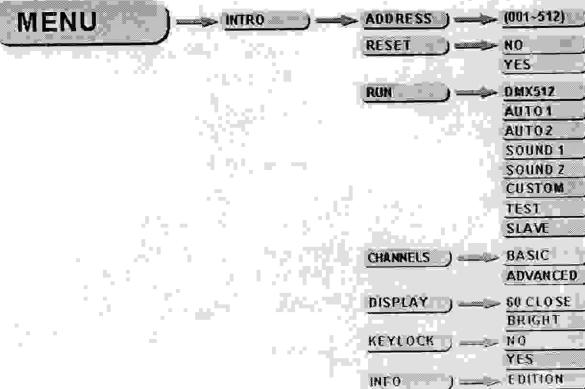
- 【 MENU 】 Scroll through the main menu or exit from the current sub-menu
- 【 ENTER 】 Enter the currently selected menu or confirm the current function value
- 【 DOWN 】 Scroll 'DOWN' through the menu list or decrease the value of the current function
- 【 UP 】 Scroll 'UP' through the menu list or increase the value of the current function



## 3.2 MENU



## 3.3 INTRO



### 【Address】

- Enter 【Address】 to set the DMX Address, which is from(001-512)

### 【Reset】

- In order to reset custom mode to default, select 【Reset】

### 【Run】

- Enter 【Run】 to select the operation mode: 【DMX512】; 【Auto1】; 【Auto2】; 【Sound 1】; 【Sound 2】; 【Custom】; 【Test】; 【Slave】

### 【Channels】

- Enter 【Channels】 to select the DMX channel modes: 【Basic】; 【Advanced】.

### 【Display】

- Enter 【Display】 to select the lighting time of the LCD display panel.

### 【Keylock】

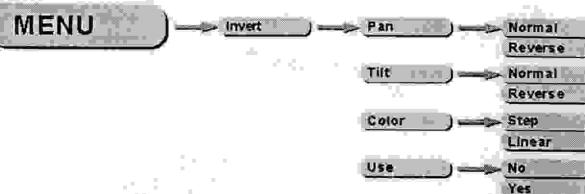
- Enter the 【Keylock】 mode to select whether the access password is on or off.
- When the fixture is set as PASS 【ON】 , after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

**Note:** The factory access password is 【UP】 + 【DOWN】 + 【UP】 + 【DOWN】 , then press 【ENTER】 to confirm the access.

### 【Info】

- Enter 【Info】 to see the version of the software.

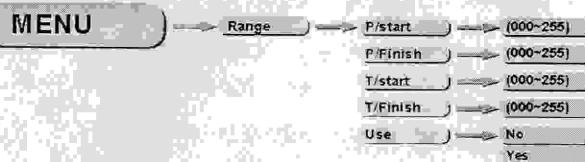
### 3.4 Invert



#### 【Invert】

- Select 【Pan】 / 【Tilt】 to set 【Normal】 or 【Reverse】
- Select 【Color】 to select the color wheel flow way 【Step】 or 【Linear】
- Enter 【Use】 and set 【Yes】 to run the new setting

### 3.5 Range



#### 【P/start】

- Set pan start value 【000~255】

#### 【P/Finish】

- Set pan finish value 【000~255】

#### 【T/start】

- Set Tilt start value 【000~255】

#### 【T/Finish】

- Set Tilt finish value 【000~255】

#### 【Use】

- Enter 【Use】 and select 【Yes】 to open the operation of X/Y angle

### 3.6 Special



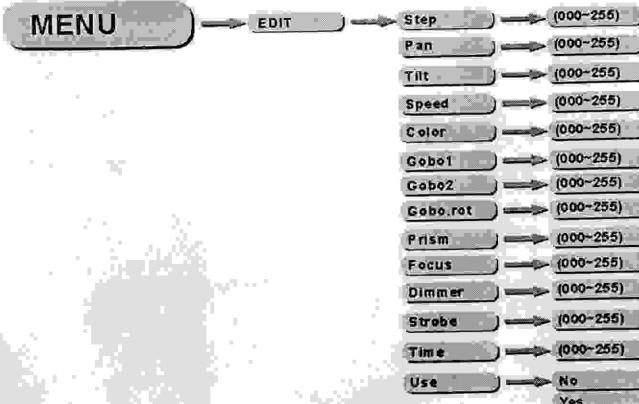
#### 【Black】

- Enter 【Black】 to choose 【No】 without delay or 【Yes】 3seconds delay

#### 【Reset】

- Enter 【Reset】 to choose 【DMX】 DMX control reset or 【System】 DMX cannot control reset

### 3.7 EDIT



#### 【Edit】

- Enter the 【Edit】 mode to edit the custom programs by adjusting the value of 【Step】 , 【Pan】 , 【Tilt】 , 【Speed】 , 【Color】 , 【Gobo 1】 , 【Gobo 2】 , 【Gobo.rot】 , 【Prism】 , 【Focus】 , 【Dimmer】 , 【Strobe】 , 【Time】
- Enter 【Use】 and select 【Yes】 to run the steps user need.

**Note:** if user want to circulate the created steps, please set the last step's 【Time】 as 0

For example, there are 3 steps, the setting should be like belowed:

- Step 1 【Time】 = 4   【Use】 = Yes
- Step 2 【Time】 = 5   【Use】 = Yes
- Step 3 【Time】 = 0   【Use】 = Yes

### 3.8 DEFAULT



#### 【Default】

- This functions will reset all setting to the original factory setting

# 4 USING A DMX512 CONTROLLER

## 4.1 BASIC ADDRESSING

- Connect all of the units in series using standard DMX512 signal cable.
- Set the DMX512 address in the **【DMX】** menu.
- It is possible to have the same DMX address or independent addresses for each fixture.

## 4.2 CHANNEL ASSIGNMENT

● Note: This product have two DMX512 channel configuration:

**【ADVANCED】** and **【BASIC】**.

### ADVANCED

| CHANNEL | VALUE  | FUNCTION   |
|---------|--|--|
| 1       | 0↔255  | PAN<br>0~360°  |
| 2       | 0↔255  | PAN FINE<br>Fine control of pan movement   |
| 3       | 0↔255  | TIILT<br>0~270°  |
| 4       | 0↔255  | TIILT FINE<br>Fine control of tilt movement  |
| 5       | 0↔255  | PAN/TILT SPEED<br>From slow to fast  |
| 6       | 0↔16<br>17↔33<br>34↔50<br>51↔67<br>68↔84<br>85↔101<br>102↔118<br>119↔135<br>136↔152<br>153↔255   | COLOR WHEEL<br>White<br>Red<br>Yellow<br>Magenta<br>Green<br>Orange<br>Blue<br>Light Blue<br>Light Green<br>Rainbow & Reversed   |
| 7       | 0↔9<br>10↔19<br>20↔29<br>30↔39<br>40↔49<br>50↔59<br>60↔69<br>70↔79<br>80↔89<br>90↔99<br>100↔114<br>115↔128<br>130↔164<br>145↔159<br>160↔174<br>175↔189<br>180↔204<br>205↔219<br>220↔234<br>235↔255 | FIXED GOBO WHEEL<br>No GOBO<br>GOBO 1<br>GOBO 2<br>GOBO 3<br>GOBO 4<br>GOBO 5<br>GOBO 6<br>GOBO 7<br>GOBO 8<br>Shaking gobo 9<br>Shaking gobo 8<br>Shaking gobo 7<br>Shaking gobo 6<br>Shaking gobo 5<br>Shaking gobo 4<br>Shaking gobo 3<br>Shaking gobo 2<br>Shaking gobo 1<br>Flow effect |

| CHANNEL | VALUE  | FUNCTION  |
|---------|--|---|
| 8       | 0↔8<br>10↔19<br>20↔29<br>30↔39<br>40↔49<br>50↔59<br>60↔69<br>70↔79<br>80↔89<br>100↔119<br>120↔139<br>140↔159<br>160↔179<br>180↔199<br>200↔219<br>220↔255 | GOBO WHEEL 1&GOBO SHAKE<br>No Gobo<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6<br>Gobo 7<br>Shaking gobo 7<br>Shaking gobo 6<br>Shaking gobo 5<br>Shaking gobo 4<br>Shaking gobo 3<br>Shaking gobo 2<br>Shaking gobo 1<br>Flow effect   |
| 9       | 0↔40<br>81↔158<br>159↔255  | GOBO ROTATION<br>Gobo Indexing<br>Clock wise rotating from slow to fast<br>Anti-clockwise rotating from slow to fast  |
| 10      | 000↔004<br>005↔009<br>010↔127<br>128↔132<br>133↔255  | ROTATING PRISM<br>No Function<br>Rotation<br>Anti-clockwise rotating from slow to fast<br>No Function<br>Clock wise rotating from slow to fast  |
| 11      | 000↔255  | Focus   |
| 12      | 0↔255  | DIMMER<br>Dark  Bright   |
| 13      | 0↔31<br>32↔48<br>64↔95<br>96↔127<br>128↔159<br>160↔191<br>192↔223<br>224↔255   | STROBE<br>Close<br>Open<br>Strobe: Slow > Fast<br>Open<br>Ruled strobe effect: Slow > Fast<br>Open<br>Random strobe effect: Slow > Fast<br>Open   |
| 14      | 0↔19<br>20↔39<br>40↔59<br>60↔79<br>80↔99<br>100↔119<br>120↔139<br>140↔159<br>160↔179<br>180↔199<br>200↔219<br>220↔255                                    | CONTROL<br>No function<br>Pan fill black activated (activated after 3 secs)<br>Pan fill black deactivated (activated after 3 secs)<br>Custom<br>Auto1 (activated after 3 secs)<br>Auto2 (activated after 3 secs)<br>Sound 1 (activated after 3 secs)<br>Sound 2 (activated after 3 secs)<br>Custom<br>Test (activated after 3 secs)<br>No function<br>Reset (activated after 3 secs)<br>No function |

## BASIC

| CHANNEL | VALUE   | FUNCTION   |
|---------|---|--|
| 1       | 0↔255   | PAN<br>0~540°  |
| 2       | 0↔255   | TILT<br>0~270°   |
| 3       | 0↔16<br>17↔33<br>34↔50<br>51↔67<br>68↔84<br>85↔101<br>102↔118<br>119↔135<br>136↔152<br>153↔255  | COLOR WHEEL<br>White<br>Red<br>Yellow<br>Magenta<br>Green<br>Orange<br>Blue<br>Light blue<br>Light Green<br>Rainbow or linear effect   |
| 4       | 0↔9<br>10↔19<br>20↔29<br>30↔39<br>40↔49<br>50↔59<br>60↔69<br>70↔79<br>80↔89<br>90↔99<br>100↔114<br>115↔129<br>130↔144<br>145↔159<br>160↔174<br><b>175↔189</b><br><b>190↔204</b><br><b>205↔219</b><br><b>220↔234</b><br><b>235↔255</b> | FIXED GOBO WHEEL<br>NO GOBO<br>GOBO 1<br>GOBO 2<br>GOBO 3<br>GOBO 4<br>GOBO 5<br>GOBO 6<br>GOBO 7<br>GOBO 8<br>GOBO 9<br>Shaking gobo 9<br>Shaking gobo 8<br>Shaking gobo 7<br>Shaking gobo 6<br>Shaking gobo 5<br>Shaking gobo 4<br>Shaking gobo 3<br>Shaking gobo 2<br>Shaking gobo 1<br>Flow effect |
| 5       | 0↔9<br>10↔19<br>20↔29<br>30↔39<br>40↔49<br>50↔59<br>60↔69<br>70↔79<br>80↔99<br>100↔119<br>120↔139<br>140↔159<br>160↔179<br>180↔199<br><b>200↔219</b><br><b>220↔255</b>  | GOBO WHEEL 1 & GOBO SHAKE<br>NO Gobo<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6<br>Gobo 7<br>Shaking gobo 7<br>Shaking gobo 6<br>Shaking gobo 5<br>Shaking gobo 4<br>Shaking gobo 3<br>Shaking gobo 2<br>Shaking gobo 1<br>Flow effect  |

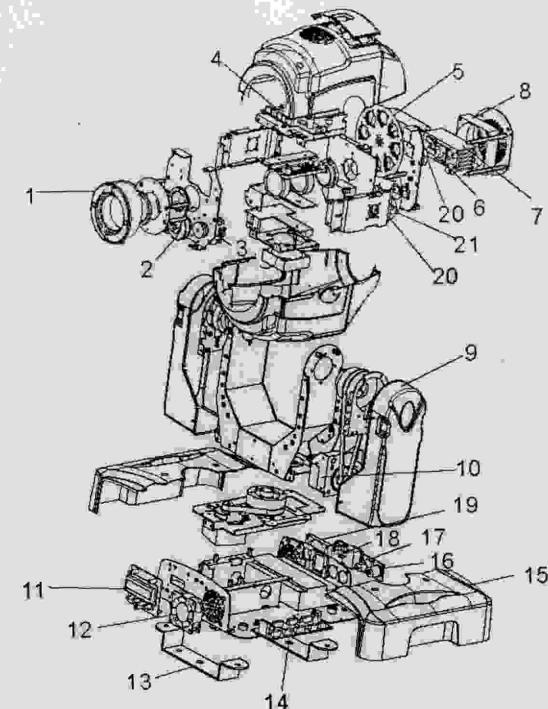
| CHANNEL | VALUE   | FUNCTION  |
|---------|---|---|
| 6       | 0↔60<br>61↔158<br>159↔255   | GOBO ROTATION<br>Gobo indexing<br>Clockwise rotating from slow to fast<br>Anti-clockwise rotating from slow to fast   |
| 7       | 000↔004<br>005↔009<br>010↔127<br>128↔137<br>133↔255   | ROTATING PRISM<br>NO FUNCTION<br>Rotation<br>Anti-clockwise rotating from slow to fast<br>NO FUNCTION<br>Clockwise rotating from slow to fast   |
| 8       | 000↔255   | Focus   |
| 9       | 0↔255   | DIMMER<br>Dark  Bright   |
| 10      | 0↔31<br>32↔63<br>64↔95<br>96↔127<br>128↔159<br>160↔191<br>192↔223<br>224↔255  | STROBE<br>Close<br>Open<br>Strobe Slow > Fast<br>Open<br>Pulse strobe effect: Slow > Fast<br>Open<br>Random strobe effect: Slow > Fast<br>Open  |
| 11      | 0↔19<br>20↔39<br>40↔59<br>60↔79<br>80↔99<br>100↔119<br>120↔139<br>140↔159<br>160↔179<br>180↔199<br>200↔219<br>220↔255 | CONTROL<br>No function<br>Pan/tilt black activated (activated after 3 secs)<br>Pan/tilt black deactivated (activated after 3 secs)<br>Auto1 (activated after 3 secs)<br>Auto2 (activated after 3 secs)<br>Sound 1 (activated after 3 secs)<br>Sound 2 (activated after 3 secs)<br>Custom<br>Test (activated after 3 secs)<br>No function<br>Reset (activated after 3 secs)<br>No function |

## 5 APPENDIX

### 5.1 TROUBLE SHOOTING

| SITUATION           | CAUSE  | ACTION   |
|---------------------|--|--|
| No power            | Power connection error                         | Check all Power connections                    |
|                     | Fuse damaged                                   | Replace Fuse                                   |
|                     | Power supply damaged                           | Replace Power supply                           |
|                     | Power switch damaged                           | Replace Power switch                           |
| LED not lit         | LED driver PCB damaged                         | Replace LED driver PCB                         |
|                     | LED PCB damaged                                | Replace LED PCB                                |
|                     | LED PCB connection error                       | Check the connections                          |
| Fan do not work     | Head fan error                                 | Fan#(80x60x20)<br>Check the LED driver PCB     |
|                     | Base fan error                                 | Fan#(40x40x10)<br>Check the power supply       |
|                     | Display PCB damaged                            | Replace Display PCB                            |
|                     | DMX PCB damaged or DMX signal connection error | Check DMX signal connection or replace DMX PCB |
| Prism error         | Motor damaged                                  | Replace motor                                  |
| Colorwheel error    | Prism belt broken                              | Replace belt                                   |
| Gobo wheel error    | Motor damaged                                  | Replace motor                                  |
| Pan movement error  | Sensor PCB damaged                             | Replace sensor                                 |
| Tilt movement error | Motor damaged                                  | Replace motor                                  |
|                     | Gobo wheel blocked                             | Check or replace the gobo wheel                |
|                     | Sensor PCB damaged                             | Replace the sensor                             |
|                     | Motor damaged                                  | Replace Pan motor                              |
|                     | Pan belt broken                                | Replace pan belt                               |
|                     | Magnetic sensor PCB damaged                    | Replace the magnetic sensor                    |
|                     | Optical sensor damaged                         | Replace the optical sensor                     |
|                     | Motor damaged                                  | Replace Tilt motor                             |
|                     | Tilt belt broken                               | Replace tilt belt                              |
|                     | Magnetic sensor PCB damaged                    | Replace the magnetic sensor                    |
|                     | Optical sensor damaged                         | Replace the optical sensor                     |

### 5.2 MAINTENANCE



| No | ITEM                | No | ITEM             |
|----|---------------------|----|------------------|
| 1  | Front lens cover    | 12 | Base fan         |
| 2  | Prism               | 13 | Bracket          |
| 3  | Motor               | 14 | X/Y PCB          |
| 4  | Motor driver PCB    | 15 | Base cover       |
| 6  | Rotation gobo wheel | 16 | XLR socket B     |
| 7  | LED PCB             | 17 | XLR socket A     |
| 8  | Heat sink           | 18 | Power socket     |
| 9  | Head fan            | 19 | On/Off           |
| 10 | Arm                 | 20 | Fixed gobo wheel |
| 11 | Display PCB         | 21 | Color wheel      |