# TourPro

# USER MANUAL

## PROFESSIONAL SHOW LIGHTING
## LED
## TX0610B

**AC100~240V**

**50/60Hz**
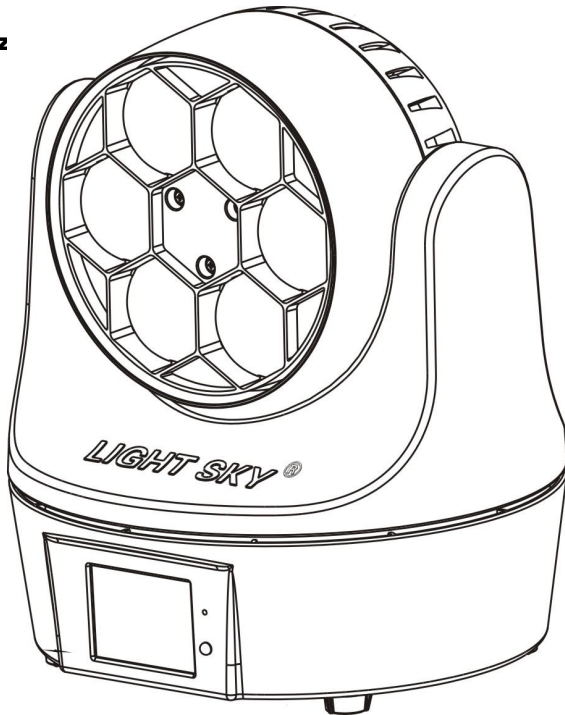
# CONTENTS

# 1. GENERAL INFORMATION

*INTRODUCTION:* Congratulations, you have just purchased one of the most innovative and reliable LED fixtures on the market today. Our company has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

> *Notice:* As part of our ongoing commitment to continuous products update, company will keep the right to improve this products, the information in this menu may be changed in the future, the company reserve the right to change the data without any advises.

*UNPACKING:* Thank you for purchasing our company products. Every product has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Inside the box you should find: the fixture, a DMX XLR cable, a power cable, and this user manual.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

# 2. SAFETY INSTRUCTIONS

> ***Notice:*** To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. Our company will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

● 1. In order to ensure the light could operate normally, the ambient temperature couldn't be higher than 38℃ and no lower than- 2℃.

● 2. Under normal condition, the highest sectional surface temperature may be up to 60 ℃.

● 3.These projectors are designed depends on the electric shock protection, the projector should be connected with the power supply system which connected ground enough. The projector's ground cable should be connected with the ground cable of the power supply system as well. The ground mark of the light metal cover should be connecting with the installation bricked steadily.

● 4.Connecting the main power supply should be done by the professional person.

● 5.Please check the voltage, frequency data of power supply system is suitable for the mentioned on the projector. Please do avoid the different voltage between them and burn the projector.

● 6.Do not attempt to operate this fixture if the power cord has become damaged or frayed.

● 7.Never open this fixture while in use.

● 8.Never look directly into the light source. You risk injury to your retina, which may induce blindness.

● 9.Please be aware that damages caused by modifications to the device are not subject to warranty.

# 3. PERFORMANCE TRAIT AND SKILL SPECIFICATIONS

◎ Voltage：AC100~240V 50/60Hz.

◎ Power：91W.

◎ LED chip：10W，RGBW 4 in 1 LED chip.

◎ LED QTY：6PCS.

◎ LED life：50000H.

◎ Lens degree：standard：1.5°.

◎ Beam angle: Minimum 6°, Maximum  51°

◎ Color: RGBW macro color system.

◎ Strobe:1-30 times/ second electronic strobe and random strobe.

◎ Dimmer ：65536 class dimmer.

◎ Pan/Tilt ： Pan ：540° times /1.5 seconds    Tilt：180°/0.5 seconds.

◎ Control Mode: DMX512, RDM, Stand-alone mode ,Voice Control mode , Mater-Slave mode , Wireless DMX512.

◎ Channel:   Standard Channel : 11 ,   Extend Channel : 17.

◎ Display Menu:

　　1. 2.4 inches TFT touch screen, Chinese and English two version language.

　　2, Display board can record device's using time , show device's temperature, channel data and software version .

　　3, Edit the procedure

◎ Other feature :

　　1. Extend IP address function , each IP address maximum can set 64 ID.

2.Support DMX signal priority identification, when lose the signal it would be turn into Black , default scene , Automatic function etc according to your set.

3.Remote control function:   control the procedure, speed etc function by the remote controller when the product under the condition without signal.

4.software upgrade :   upgrade software by XRL cable.
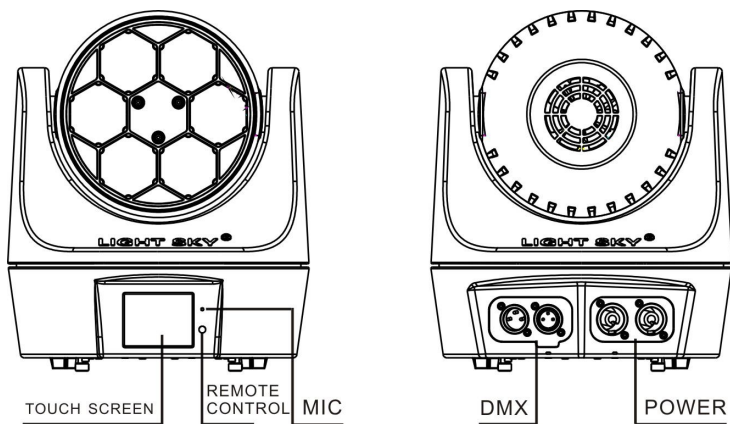
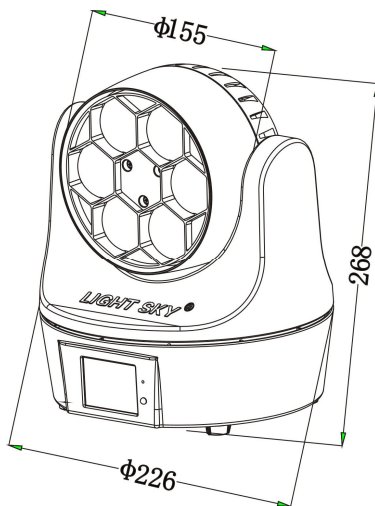◎ Outlooking: adopt ABS anti-fire plastic.

◎ Carton size : 270×260×350MM.

◎ N.W.: 3.8KG        G.W.: 5.7KG
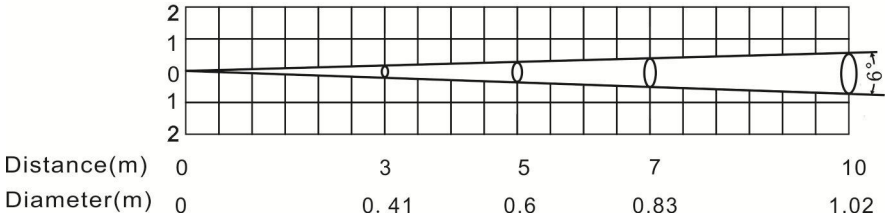
◎ Light size:φ226×268MM

# 4. OPERATION PANEL



TOUCH SCREEN    REMOTE CONTROL    MIC      DMX      POWER

# 5. DIMENSIONAL DRAWINGS



Φ155

268

Φ226

# 6. PHOTOMETRIC DATA

| | Lux | | | |
|---|---|---|---|---|
| R | 3160 | 1190 | 615 | 272 |
| G | 10200 | 4860 | 2900 | 2140 |
| B | 1080 | 850 | 392 | 95.5 |
| RGBW | 10600 | 5050 | 2900 | 1770 |

```
2
1
0        (        (        (        (    6°
1
2
```

| Distance(m) | 0 | 3 | 5 | 7 | 10 |
|---|---|---|---|---|---|
| Diameter(m) | 0 | 0. 41 | 0.6 | 0.83 | 1.02 |

# 7. MOUNTING AND INSTALLATION

**Cautions:**

For added protection mount the fixtures in areas outside walking paths, seating areas, and away from areas were unauthorized personnel might reach the fixture. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.

**Mounting points:**

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

## Mounting

Our company is fully operational in any mounting position, hanging upside-down, side mounted, or set on a flat level surface, etc. Be sure this fixture is kept at least 0.5m (about 1.6feet) away from any flammable materials (decoration etc.).

When clamp mounting; always use and install the supplied safety cable as an added safety measure to prevent accidental damage in the event of a clamp failure. See the image below.
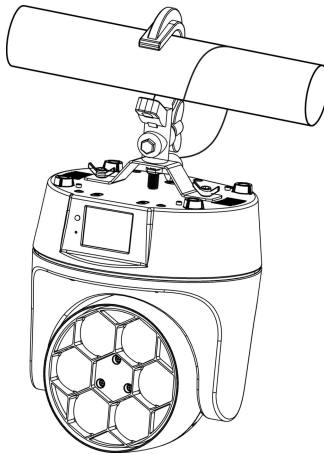
# 8. POWER SUPPLY AND SIGNAL CONNECTION

## 1. Power supply

Use the professional plug to connect the projector and main power supply. Please pay attention to the voltage, frequency the same as the mentioned on the projector. Suggest each light has separately switched of the power supply so that could turn on or turn off each projector desultorily.

## 2. Signal connection

Please use the round 3/5-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 device's input. And in the same way for the rest, eventually connect the last device's output, all the devices are together as the following figure.

The devices' control signal output or input by using the 3/5-pin XLR pug and socket. If need to long then the communication cable, please make sure the both side of 3/5-pin plug is one to one. (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted.
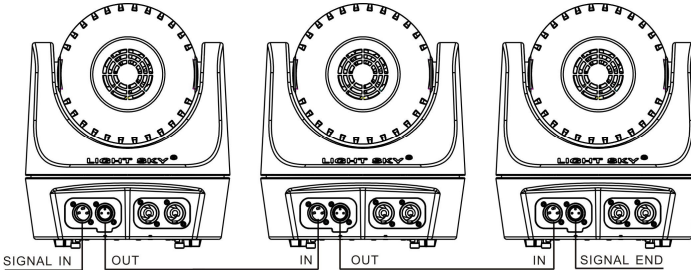


The communicate cable is 2-pin shielded cable 75Ω

Resistance with each core is at least a 0.5mm diameter. (Caution: All the inside leading wire of 3/5-pin XLR plug couldn't touch each other or plinth).

Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a 120Ω 1/2w

resistor connected across pin 2 and 3.Which is then plugged into the output socket on the last projector in the chain. Refer to the connection as above:(Picture ).We suggest using the DMX signal distributor when the distance of the lights over 15meter,In case of effect the light communication because of the signal feeble.
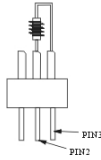


## 3. Light power connection:
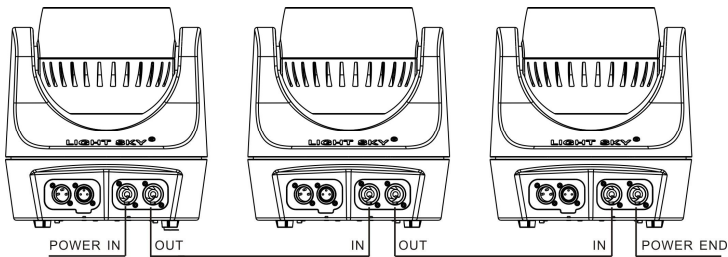


The L terminal is connected with the brown line
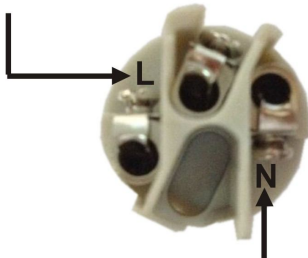


The N terminal is connected with the blue line

the items can't be more than 6pcs under series connection.

After doing the above operation and making sure all the devices had been installed with natural operate, press the power switch to check whether everything is working normally.

# **9. DISPLAY MENU**

| I Menu | II Menu | III Menu | Remark |
|---------|---------|----------|--------|
| SETTING | DMX Address | 001-512 | |
| | Fixture ID | 000-064 | |
| | Channel mode | Standard (11CH) | Default |
| | | Extended (17CH) | |
| | DMX input mode | Wired input | Default |
| | | Wireless input | |
| | | Reset wireless | |
| | DMX function | Hold | |
| | | Black | |
| | | D.scene | |
| | | Program 1 | |
| | | Program 2 | |
| | | Program 3 | |
| | | Program 4 | |
| | | Program 5 | |
| | | Program 6 | |
| | | Program 7 | |
| | | Program 8 | |
| | Slave-Master | Slave mode | |
| | | Master mode | |
| | Music control | Close | |
| | | Open | |
| | Exit | | |

| I Menu | II Menu | III Menu | Remark |
|---|---|---|---|
| INFO | Fixture times | Power on time ****H | |
| | | Lamp on time ****H | |
| | Fixture temperatures | LAMP_TEM ***℃ | |
| | RDM UID | 3888: ******** | |
| | DMX live | 1. Dimmer 0-255 | |
| | | 2. Dimmer fine 0-255 | |
| | | 3. Shutter 0-255 | |
| | | 4. Red 0-255 | |
| | | 5. Green 0-255 | |
| | | 6. Blue 0-255 | |
| | | 7. White 0-255 | |
| | | 8. Macro colour 0-255 | |
| | | 9. Pan 0-255 | |
| | | 10. Pan fine 0-255 | |
| | | 11. Tilt 0-255 | |
| | | 12. Tilt fine 0-255 | |
| | | 13. Rota. lens 0-255 | |
| | | 14. Rota. Sp 0-255 | |
| | | 15. Fixture contro 0-255 | |
| | | 16. Calibration 0-255 | |
| | | 17. Slave ID 0-255 | |
| | Version info | LED_XY_SOFT:V*.** | |
| | | LED_DPY_SOFT:V*.** | |
| | Exit | | |

| Ⅰ Menu | Ⅱ Menu | Ⅲ Menu | Ⅳ Menu | Remark |
|---|---|---|---|---|
| PERSON | Pan/Tilt | P/T swap | OFF | Default |
| | | | ON | |
| | | Pan invert | OFF | Default |
| | | | ON | |
| | | Tilt invert | OFF | Default |
| | | | ON | |
| | | Exit | | |
| | DMX reset | ON | | Default |
| | | OFF | | |
| | Reset | System reset | | |
| | | Exit | | |
| | Quick closedown | Open | | |
| | | Close | | |
| | P/T angle limit | Close | | |
| | | Open | | |
| | Program on/off | Close | | |
| | | Open | | |
| | Set p/t angle | Pan start | | |
| | | Pan end | | |
| | | Tilt start | | |
| | | Tilt end | | |
| | | Exit | | |

| Ⅰ Menu | Ⅱ Menu | Ⅲ Menu | Ⅳ Menu | Remark |
|---|---|---|---|---|
| PERSON | Display | Display language | English(英文) | Default |
| | | | Chinese(中文) | |
| | | Display sleep | Light always | |
| | | | 2 minutes | Default |
| | | | 4 minutes | |
| | | | 6 minutes | |
| | | Display intensity | 10-100 | Default :50 |
| | | Display rotation | Normal | Default |
| | | | Rotate 180 | |
| | | TFT calibration | | |
| | | Exit | | |
| | Exit | | | |

| I Menu | II Menu | | III Menu | Remark |
|--------|---------|--|----------|--------|
| MANUAL | 1. Dimmer | 0-255 | | |
| | 2. Dimmer fin | 0-255 | | |
| | 3. Shutter | 0-255 | | |
| | 4. Red | 0-255 | | |
| | 5.Green | 0-255 | | |
| | 6. Blue | 0-255 | | |
| | 7. White | 0-255 | | |
| | 8.Macro colo | 0-255 | | |
| | 9. Pan | 0-255 | | |
| | 10. Pan fine | 0-255 | | |
| | 11. Tilt | 0-255 | | |
| | 12. Tilt fine | 0-255 | | |
| | 13.Rota.lens | 0-255 | | |
| | 14. Rota.Sp | 0-255 | | |
| | 15. Fixture c | 0-255 | | |
| | 16. Calibrati | 0-255 | | |
| | 17. Slave ID | 0-255 | | |
| | Exit | | | |

| I Menu | II Menu | III Menu | IV Menu | |
|--------|---------|----------|---------|---|
| PROGRAM | Edit program | Edit program 1 | Scene | 0-100 |
| | | | 1.Dimmer | 0-255 |
| | | | 2.Dimmer fin | 0-255 |
| | | | 3.Shutter | 0-255 |
| | | | 4.Red | 0-255 |
| | | | 5.Green | 0-255 |
| | | | 6.Blue | 0-255 |
| | | | 7.White | 0-255 |
| | | | 8.Macro colo | 0-255 |
| | | | 9.Pan | 0-255 |
| | | | 10.Pan fine | 0-255 |
| | | | 11.Tilt | 0-255 |
| | | | 12.Tilt fine | 0-255 |
| | | | 13.Rota.lens | 0-255 |
| | | | 14.Rota.Sp | 0-255 |
| | | | 15.Fixture c | 0-255 |
| | | | 16.Calibrati | 0-255 |
| | | | 17.Slave ID | 0-255 |
| | | | Save scene | |
| | | | Exit | |
| | | Edit program 2 | Same as Edit program1 | |
| | | Edit program 3 | Same as Edit program1 | |
| | | Edit program 4 | Same as Edit program1 | |
| | | Edit program 5 | Same as Edit program1 | |
| | | Edit program 6 | Same as Edit program1 | |
| | | Edit program 7 | Same as Edit program1 | |
| | | Edit program 8 | Same as Edit program1 | |
| | | Exit | | |

| Ⅰ Menu | Ⅱ Menu | Ⅲ Menu | Ⅳ Menu |
|---|---|---|---|
| PROGRAM | Set program | Set program 1 | Start step 0-100 |
| | | | End step 0-100 |
| | | | Step time0-255 |
| | | | Save |
| | | | Exit |
| | | Set program 2 | Same as Set program 1 |
| | | Set program 3 | Same as Set program 1 |
| | | Set program 4 | Same as Set program 1 |
| | | Set program 5 | Same as Set program 1 |
| | | Set program 6 | Same as Set program 1 |
| | | Set program 7 | Same as Set program 1 |
| | | Set program 8 | Same as Set program 1 |
| | | Exit | |
| | Run | Running program. | |
| | Fixed scene | Scene 001-100 | |
| | Exit | | |
| SERVICE | Error list | | |
| | Adjust | Pan | ±5.00% |
| | | Tilt | ±5.00% |
| | | Rota.lens | ±5.00% |
| | | Exit | |
| | Factory | Default | **** |
| | | Adjust default | **** |
| | | Time clean | **** |
| | | Developer | **** |
| | | Machine set | **** |
| | | Exit | |
| | Updata | **** | |
| | Exit | | |

# 10、DMX TRAITS

| Channel | DMX values | % | Effect |
|---|---|---|---|
| 1. Dimmer | 0-255 | 0-100 | |
| 2. Dimmer fine | 0-255 | 0-100 | |
| 3. Shutter | 0-9 | 0-3 | Unused range |
| | 10-49 | 4-19 | Light→dark, slow→fast |
| | 50-89 | 20-34 | Dark→light, slow→fast |
| | 90-119 | 35-46 | Dark→light→dark, slow→fast |
| | 120-179 | 47-70 | Random fast→slow strobe |
| | 180-250 | 71-98 | In-phase, slow→fast |
| | 250-255 | 99-100 | Unused range |
| 4. Red | 0-255 | 0-100 | |
| 5. Green | 0-255 | 0-100 | |
| 6. Blue | 0-255 | 0-100 | |
| 7. White | 0-255 | 0-100 | |
| 8. Macro colour | 0-1 | 0-1 | Unused range |
| | 2-254 | 1-99 | Shadow |
| | 255 | 100 | Unused range |
| 9. Pan | 0-255 | 0-100 | |
| 10. Pan fine | 0-255 | 0-100 | |
| 11. Tilt | 0-255 | 0-100 | |
| 12. Tilt fine | 0-255 | 0-100 | |
| 13. Rota.lens | 0-127 | 0-49 | |
| | 128-135 | 50-52 | |
| | 136-231 | 53-90 | |
| | 232-255 | 91-100 | |

| Channel | DMX values | % | Effect |
|---|---|---|---|
| 14. Rota.Sp | 0-255 | | 0-100 |
| 15.Fixture control | 0-9 | 0-3 | Unused range |
| | 10-14 | 4-5 | Complete reset |
| | 15-19 | 5-7 | Open |
| | 20-24 | 7-9 | Close |
| | 25-29 | 10-11 | Quick open |
| | 30-34 | 12-13 | Quick close |
| | 35-239 | 14-93 | Unused range |
| | 240-244 | 94-95 | Pan |
| | 245-249 | 96-97 | Tilt |
| | 250-255 | 98-100 | Unused range |
| 16. Calibration | 0-255 | 0-100 | |
| 17. Slave ID | 0-2 | 0 | All IDs are efficient lighting its own ID to 0, the channel set to any value is valid |
| | 3-5 | 1-2 | ID:1 effective |
| | 6-8 | 2-3 | ID:2 effective |
| | ... | ... | |
| | 192-194 | 75-76 | ID:64 effective |
| | 195-197 | 76-77 | ID is $(2*n)+1$ effective,(n=0-31) 1、3、5、7、9…63 |
| | 198-200 | 77-78 | ID is $(2*n)+2$ effective,(n=0-31) 2、4、6、8、10…64 |
| | 201-203 | 78-79 | ID is $(3*n)+1$ effective,(n=0-21) 1、4、7、10、13…64 |

| Channel | DMX values | % | Effect |
|---------|-----------|---|--------|
| 17. Slave ID | 204-206 | 80-81 | ID is(3*n)+2 effective,(n=0-20)<br>2、5、8、11、14…62 |
| | 207-209 | 81-82 | ID is(3*n)+3 effective,(n=0-20)<br>3、6、9、12、15…63 |
| | 210-212 | 82-83 | ID is(4*n)+1 effective,(n=0-15)<br>1、5、9、13、17…61 |
| | 213-215 | 83-84 | ID is(4*n)+2 effective,(n=0-15)<br>2、6、10、14、18…62 |
| | 216-218 | 84-85 | ID is(4*n)+3 effective,(n=0-15)<br>3、7、11、15、19…63 |
| | 219-221 | 85-86 | ID is(4*n)+4 effective,(n=0-15)<br>4、8、12、16、20…64 |
| | 222-224 | 87-88 | ID is(5*n)+1 effective,(n=0-12)<br>1、6、11、16、21…61 |
| | 225-227 | 88-89 | ID is(5*n)+2 effective,(n=0-12)<br>2、7、12、17、22…62 |
| | 228-230 | 89-90 | ID is(5*n)+3 effective,(n=0-12)<br>3、8、13、18、23…63 |
| | 231-233 | 90-91 | ID is(5*n)+4 effective,(n=0-12)<br>4、9、14、19、24…64 |
| | 234-236 | 91-92 | ID is(5*n)+5 effective,(n=0-11)<br>5、10、15、20、25…60 |
| | 237-239 | 93-94 | ID is(6*n)+1 effective,(n=0-10)<br>1、7、13、19、25…61 |

| Channel | DMX values | % | Effect |
|---------|-----------|---|--------|
| 17. Slave ID | 240-242 | 94-95 | ID is(6*n)+2 effective,(n=0-10)<br>2、8、14、20、26···62 |
| | 243-245 | 95-96 | ID is(6*n)+3 effective,(n=0-10)<br>3、9、15、21、27···63 |
| | 246-248 | 96-97 | ID is(6*n)+4 effective,(n=0-10)<br>4、10、16、22、28···64 |
| | 249-251 | 97-98 | ID is(6*n)+5 effective,(n=0-9)<br>5、11、17、23、29···59 |
| | 252-254 | 98-99 | ID is(6*n)+6 effective,(n=0-9)<br>6、12、18、24、30···60 |
| | 255 | 100 | All IDs are valid |

## Standard（11CH）

| | | | |
|---|---|---|---|
| 1.Dimmer | 4. Green | 7. Pan | 10. Rota.Speed |
| 2.Shutter | 5. Blue | 8. Tilt | 11.Fixture control |
| 3.Red | 6. White | 9. Rota.lens | |

## Extended（17CH）

| | | | |
|---|---|---|---|
| 1.Dimmer | 6. Blue | 11.Tilt | 16. Calibration |
| 2.Dimmer fine | 7. White | 12. Tilt fine | 17. Slave ID |
| 3.Shutter | 8.Macro colour | 13. Rota.lens | |
| 4. Red | 9. Pan | 14.Rota.Speed | |
| 5. Green | 10. Pan fine | 15.Fixture control | |

# 11. CIRCUIT CONNECTING DIAGRAM

Input

L
N
PE

Switched power supply

LED control board

Switched power
supply output

+28 V
GND

28
GND

1

L   N

PE

AC100-240V
50/60Hz

XY drive board

28
GND

LED radiation board

T1

1#

28
GND

LED drive board

LED output line

T1

TEM

1#

Temperature reaction line
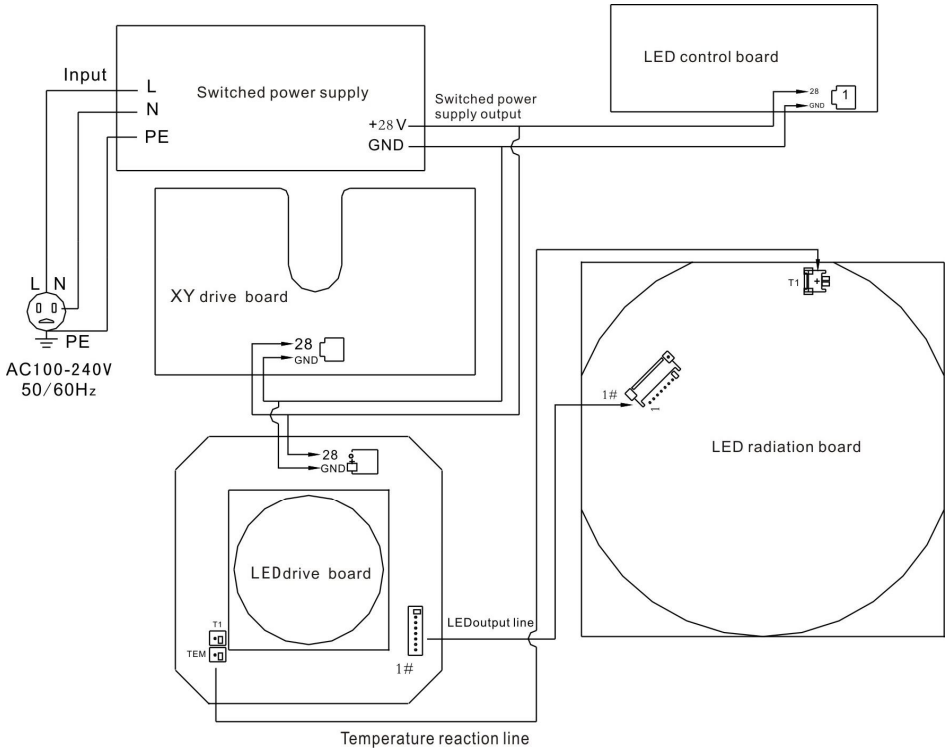
# **12.** **TROUBLE DISPOSE**

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

●LED off**：**

1.  Please check if install the suitable voltage
2.  Please check whether the led will reach the end of their life can explode; please replace a same description led.
3.  Please check if the power supply is enough.
4.  Please check whether the DMX 512 controller pass the "turn on" order.

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

1.  Please check the start code address and the function option are correct.
2.  Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.
3.  Please check the control system is not valid, check the signal amplifier of chain connected is valid.
4.  Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
5.  Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
6.  Add the signal amplify isolator.
7.  Signal cable is used the excellent screening doublet (Resistance 75 OHM）
8.  The end of the light end and the end resistance.

●The light can't move:

1.  Please check if the power supply is suitable for the light voltage data.
2.  Please check the fuse of input voltage is defective.
3.  Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.

# 13. CLEANING AND MAINTENANCE

■1. In order to ensure the projector could work normally. It should be kept clean always .The lens should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on lens. It will damage the projector.

■2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.

■3. Please disconnect the power supply when begin to maintenance take down the light. Please let the parts cool down 10 minute at least then begin to install.

■4. Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or looseness must change a lamp or fix the lamp in order to avoid the accident.

> CAUTION!
> Disconnect from mains before starting maintenance operation.

## 14.DUTY EXONERATIVE AND COPYRIGHT PROTECTION

◎Any products broken that didn't according to the instruction is not guarantee to keep it in good repair.

◎The commentary for all the instruction belongs to the supplier in final.

◎No authorize can't copy.