# USER MANUAL
# BEAMER 25



## LCG-2507

## （RGBAW 7*25W 5-IN-1）

# Catalog

# 1. Summary

> ## Summary

> Thank you for purchasing our **Beamer *25***. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misuage

> ## Product introduction

LED Beamer *25* adopts high power 5-in-1 COB LED, which refers to single LED is made of R,G,B,A,W 5-IN-1 LED, And long life span, low consumption, good color mixing effect and high brightness are the most prominent features. Each kind of LED can be independently dimmed. The built-in program includes dimming, strobe, gradual change, fading and so on. It uses power switch, performs low weight and consumption, stable capability and long life. International standard DMX 512 signal is requested.

> ## Packing List

> > Beamer *25*      1 PC
>
> > DMX Signal Cable      1 Set
>
> > Input power cable    1 PC
>
> > User Manual
>
> > Warranty Card

# 2. Safety Instruction

## ➢ Safety Notes

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

**!** Avoid direct eye exposure to the fixture when it is on;

## ➢ Safety                              instruction

● Make sure the power supply voltage are consistent with this lights，Ensure the use of voltage is in the range

of the request technical parameter.

●Before the installation, please check the light's fasteners and mechanical structure have been received in

good condition and appear no damage.

●This light is designed for indoor use; working temperature is lower than 40 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure

there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

# 3. Outside Size Picture
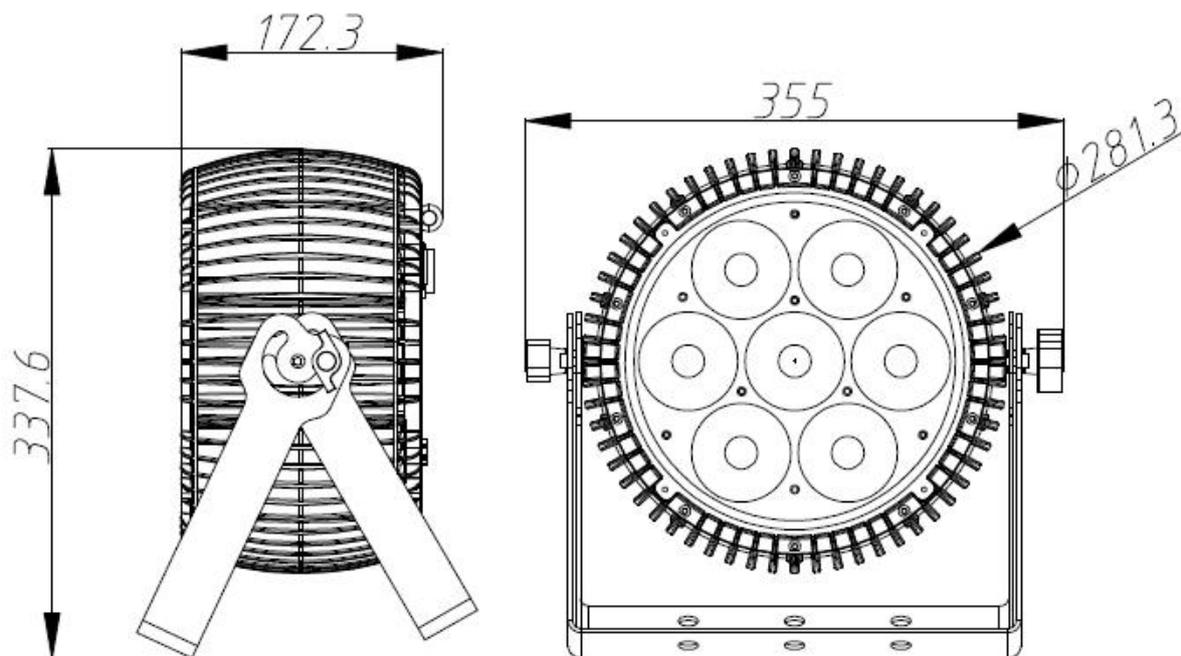
# 4. Main Function

➢ Input voltage: AC 100V-264V/47-63HZ

➢ Consume：180W

➢ Lamp Type： 25W LED 5-in-1 R、G、B、A、W(7PCS), Beam angle: 60°

➢ Life span: 50000~100000hours

➢ PWM Dimmer：4300HZ(16666 grades)

➢ Control Signal：DMX512

➢ Control mode：stand alone/ Master/Slaver

➢ Channel：11CH、7CH、5CH

➢ Function Effect: dimmer, strobe, gradual change, rainbow, self program running

➢ Built-in temperature control measurement function, when LED work overheated, intelligent reduce LED output power, current power output and temperature can be viewed.

➢ Cooling mode: Natural Convection

➢ Anti-electricity intension：1.5KV

➢ Insulation Resistance:>2MΩ

➢ Protection: IP65

➢ Size:281*351*156mm

➢ Net weight:7.5Kg

# 5. DMX Control Function

## ➢ DMX Channels

| 5CH | 7CH | 11CH | Value | Function |
|---|---|---|---|---|
| - | CH1 | CH1 | 0-255 | Master intensity |
| CH1 | CH2 | CH2 | 0-255 | R |
| CH2 | CH3 | CH3 | 0-255 | G |
| CH3 | CH4 | CH4 | 0-255 | B |
| CH4 | CH5 | CH5 | 0-255 | A |
| CH5 | CH6 | CH6 | 0-255 | W |
| - | CH7 | CH7 | 0-5 | No strobe |
| | | | 6-20 | Not synchronous strobe(slow to fast) |
| | | | 21-60 | Synchronous strobe(slow to fast) |
| | | | 61-100 | Electronic Sine wave(slow to fast) |
| | | | 101-140 | Random Strobe(slow to fast) |
| | | | 141-180 | Opening pulse(slow to fast) |
| | | | 181-220 | Closing pulse(slow to fast) |
| | | | 221-255 | Electronic Square wave(slow to fast) |
| - | - | CH8(CH8 Prior to CH10) | 0-5 | No effect |
| | | | 6-10 | CT01(Call custom color in menu setting) |
| | | | 11-15 | CT02 |
| | | | 16-20 | CT03 |
| | | | 21-25 | CT04 |
| | | | 26-30 | CT05 |
| | | | 31-35 | CT06 |
| | | | 36-40 | CT07 |
| | | | 41-45 | CT08 |
| | | | 46-50 | CT09 |
| | | | 51-55 | CT10 |
| | | | 56-60 | AUTO 1(R,G,B,RG,RB,GB) |
| | | | 61-65 | AUTO 2(R↑,R↓,G↑,G↓,B↑,B↓,A↑,A,W↑,W↓) |
| | | | 66-70 | AUTO 3(R↑G↑,R↓G↓,R↑B↑,R↓B↓,B↑G↑,B↓G↓) |
| | | | 71-75 | AUTO 4 (R↑G↑B↑W↑,R↓G↓B↓W↓) |
| | | | 76-80 | AUTO 5 (Rainbow effect: B,BG↑,BG,B↓G,G,GR↑,GR,G↓R,R,RB↑,RB,R↓B) |
| | | | 81-220 | Reserved |
| | | | 221-225 | CHASE1 |
| | | | 226-230 | CHASE2 |
| | | | 231-235 | CHASE3 |
| | | | 236-255 | Reserved |

| - | - | CH9 | 0-255 | Auto speed(fast->slow) |
|---|---|---|---|---|
| - | - | CH10 | | Virtual color wheel |
| | | | 0-10 | No effect |
| | | | 11 | Blue (Blue=full, Red+Green+White=0)(step) |
| | | | 12-50 | Red=0, Green->up,Blue =full, White=0(proportional) |
| | | | 51 | Light Blue (Red=0, Green=full, Blue =full, White=0)(step) |
| | | | 52-90 | Red=0, Green=full, Blue->down, White=0(proportional) |
| | | | 91 | Green (Red=0, Green=full, Blue =0, White=0)(step) |
| | | | 92-130 | Red->up, Green=full, Blue=0, White=0(proportional) |
| | | | 131 | Yellow (Red=full, Green=full, Blue=0, White=0)(step) |
| | | | 132-170 | Red=full, Green->down, Blue=0, White=0(proportional) |
| | | | 171 | Red(Red=full, Green=0, Blue=0, White=0)(step) |
| | | | 172-210 | Red=full, Green=0, Blue->up, White=0(proportional) |
| | | | 211 | Magenta (Red=full, Green=0, Blue=full, White=0)(step) |
| | | | 212-250 | Red -> down, Green=0, Blue=full, White=0(proportional) |
| | | | 251-255 | Blue (Red=0, Green=0, Blue=full, White=0)(step) |
| - | - | CH11 | 0-10 | Use the dimmer mode which menu had set up |
| | | | 11-20 | Linear curve |
| | | | 21-30 | Square law curve |
| | | | 31-40 | Inverse square law curve |
| | | | 41-50 | S-curve |
| | | | 51-60 | Linear curve and smooth |
| | | | 61-70 | Square law curve and smooth |
| | | | 71-80 | Inverse square law curve and smooth |
| | | | 81-90 | S-curve and smooth |
| | | | 91-254 | Use the dimmer mode which menu had set up |
| | | | 255 | Reset fixture(at least 5S) |

# 6. Display Operation Instruction
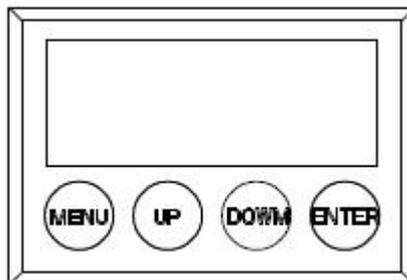


➤ MENU : access the menu or return to a previous menu option

➤ ENTER: select the current menu option

➤ UP: menu selection or parameter increments

➤ DOWN: menu selection or parameters decrease

# Menu Tree

| TAB | LEVEL1 | LEVEL2 | LEVEL3 | LEVEL4 |
|---|---|---|---|---|
| ADDR(Address) | 001-512 | | | |
| STAT(Static control) | R | 0-255 * | | |
| | G | 0-255 * | | |
| | B | 0-255 * | | |
| | A | 0-255 * | | |
| | W | 0-255 * | | |
| | SHUT | 0-255 * | | |
| SET(Set) | SIGN(DMX signal selection) | 2.4G(wireless)/CABL(Cable) | | |
| | WIRE(Wireless set) | REST(reset) | YES/NO | |
| | | KEY | | |
| | CAL(Calibration) | R | 0-255 | |
| | | G | 0-255 | |
| | | B | 0-255 | |
| | | A | 0-255 | |
| | | W | 0-255 | |
| | | USE | YES/NO | |
| | CHMD(Channel mode) | 11CH | | |
| | | 7CH | | |
| | | 5CH | | |

| | DIM(Dimming mode) | LIN(linear)/SQR(square law)/ISQR(inverse square law)/SCUR(S-curve)/LIN.(linear smooth)/SQR.(square law smooth)/ISQR.(inverse square law smooth)/SCUR.(S-curve smooth) | | |
|---|---|---|---|---|
| | LOCK(Key 2 minutes lock) | YES/NO | | |
| CTST(Custom color set) | CT01 | R | 0-255 | |
| | . | G | 0-255 | |
| | . | B | 0-255 | |
| | . | A | 0-255 | |
| | . | W | 0-255 | |
| | CT10 | | | |
| AUTO(Auto) | AT01 | RUN.. * | | |
| | . | RUN.. * | | |
| | . | RUN.. * | | |
| | . | RUN.. * | | |
| | AT05 | RUN.. * | | |
| | ATSP(Auto speed) | 0-255(S) | | |
| | CHS1（Chase 1） | RUN.. * | | |
| | CHS2（Chase 2） | RUN.. * | | |
| | CHS3（Chase 3） | RUN.. * | | |
| PROG（Program） | CHS1（Chase 1） | SC01（Scene 1） | R | 0-255 |
| | . | . | G | 0-255 |
| | . | . | B | 0-255 |
| | . | . | A | 0-255 |
| | . | . | W | 0-255 |
| | . | . | SHUT | 0-255 |
| | . | . | TIME | 0-255(S) |
| | . | . | WAIT | 0-25.5(S) |
| | . | . | USE | YES/NO |
| | . | SC25（Scene 25） | | |
| | CHS3（Chase 3） | | | |
| INFO（Information） | SOFT(Software version) | Vx.x | | |
| | POW(Power reduction) | xxx% | | |
| | TEMP | xxxC | | |
| LOAD(Load) | ST L（Setting load） | YES/NO | | |
| | PR L（Program load） | YES/NO | | |
| SEND(Send) | YES/NO | | | |

## Instructions：

**When enter to the "*" position displayed on the LED, the light will automatically set as master and send data to external. Other fixtures can receive this data and will synchronously running without manually set as slave. When power cycle it will jump to the "*" position and running again. And in these position it will not return back to the default display after two minutes.**

## 6.1 DMX ADDRESS SETTING

1) Press the 【ENTER】 button in 【ADDR】 menu, then enter to the DMX address setting.

2) Press the【UP/DOWN】button to select【1-512】numerical value.

3) Press the【ENTER】button to escape and save.

## 6.2 STATIC SETTING

1) Press the【ENTER】button in 【STAT】menu, then enter to the static setting.

2) Press the【UP/DOWN】 button to select 【RED】，【GREEN】，【BLUE】，【AMBER】，【WHITE】，【SHUT】.

3) Press the【UP/DOWN】button to set up the【0-255】numerical value.

4) Press the【ENTER】button to escape and save.

## 6.3 DMX SIGNAL SELECTION SETTING ( WHEN NO WIRELESS IGNORE)

1) Press the【ENTER】button in【SIGN】menu, then enter to the DMX signal selection setting.

2) Press the【UP/DOWN】button to select【2.4G】,【CABLE】.

3) Press the【ENTER】button to escape and save.

## 6.4 WIRELESS SET( WHEN NO WIRELESS INGORE)

1) Press the【ENTER】button in【WIRE】menu, then enter to the wireless set.

2)【RESET】Simulating the power outage of wireless module and then press the button to power on.

3)【KEY】Similar to an external button.

## 6.5 COLOR CAST CALIBRATION SETTING

1) Press the【ENTER】button in 【CAL】menu, then enter to the color cast calibration setting.

2) Press the【UP/DOWN】button to select 【RED】，【GREEN】，【BLUE】，【AMBER】，【WHITE】

3) Press the 【UP/DOWN】button to set up the【0-255】numerical value.

4) On the【USE】interface, pressing【YES】button means valid,【NO】means invalid.

5) Press the【ENTER】button to escape and save.

Illustrations: When pressing the【YES】button which means valid on the【USE】interface, the actual output value of RED，GREEN，BLUE，AMBER，WHITE is output in accordance with the percentage which the color cast calibration value divides 255.

## 6.6 CHANNEL MODE SETTING

1) Press the【ENTER】button in 【CHMD】menu, then enter to the channel mode setting.

2) Press the【UP/DOWN】button to select【11CH】，【7CH】，【5CH】

3) Press the【ENTER】button to escape and save.

## 6.7 DIMMING MODE SETTING

1) Press the【ENTER】button in【DIM】menu, then enter to the dimming mode setting.

2) Press the【UP/DOWN】button to select【LIN】，【SQR】，【ISQR】，【SCUR】，【LIN.】，【SQR.】，【ISQR.】and【SCUR.】.

3) Press the【ENTER】button to escape and save.

Illustrations：When setting【LIN.】，【SQR.】，【ISQR.】and 【SCUR.】 in 【DIM】 menu, there will be added a little delay dimming effect for smooth..

Dimming curve:

Linear curve: square law curve: Inverse Square law curve: S-curve:
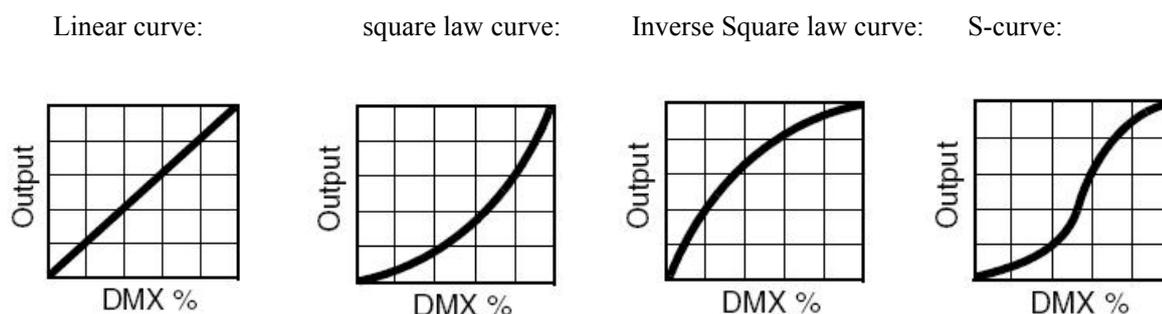


## 6.8 AUTO LOCK KEY SETTING

1) Press the【ENTER】button in【LOCK】menu, then enter auto lock key setting.

2) Press the【UP/DOWN】button to select【YES】,【NO】

3) Press the【ENTER】button to escape and save.

**Instructions:**

**When set to [YES], it will lock automatically after two minutes to prevent accidental triggering flood flushing. When in the order press MENU->UP->DOWN->ENTER three times to unlock，and the time between two keys be press down must within 2 seconds.**

## 6.9 CUSTOM COLOR SETTING

1) Press the 【ENTER】 button in 【CTST】 menu, then enter to the custom color setting.

2) Press the 【UP/DOWN】 select 【CT01】…【CT10】

3) Press the【UP/DOWN】 button to select 【RED】，【GREEN】，【BLUE】，【WHITE】

3) Press the【UP/DOWN】button to select【1-255】numerical value.

4) Press the【ENTER】button to escape and save.

## 6.10　AUTO RUN, SELF-PROGRAM RUN

1)Press the【ENTER】button in【AUTO】menu, then enter to the auto run,self-program run.

2)Press the【UP/DOWN】button to select【AT01】…【AT05】，【AUTO SPEED】，【CHASE01】…【CHASE03】

3)Press the【ENTER】button to start running.

## 6.11　EDIT SELF-PROGRAM

1) Press the【ENTER】button in【PROG】menu, then enter to the edit self-program.

2) Press the【UP/DOWN】button to select【CHASE01】…【CHASE03】

3) Press the【ENTER】button for confirmation and enter to the next menu.

4) Press the【UP/DOWN】button to select【SCENE01】…【SCENE25】

5) Press the【ENTER】button for confirmation and enter to the next menu.

6) Then press the【UP/DOWN】button to select【RED】…【SHUT】，【AUTO】，【ATSP】，【TIME】，【WAIT】，【USE】

7) Press the【UP/DOWN】button to set up the parameter which are needed.

8) Press the【ENTER】button t o escape and save.

Illustrations：When【USE】 is set to be【NO】，or the parameter of【TIME】 is 0, it will not run this scene.When 【WAIT】is set to be FADE time, the running process is as the following chart showing.
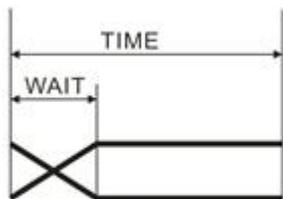
## 6.12 CHECK THE LIGHTING INFORMATION

1) Press the【ENTER】button in【INFO】menu, then enter to the checking the lighting information.

2) 【SOFT】button is for software version information.

3) 【POW】button is for the current information of power reduction..

4) 【TEM】button is for the current temperature of lamp.

## 6.13 LIGHTING SETTING PARAMETER RESET

1) Press the【ENTER】button in【ST L】menu, then enter to the lighting setting parameter reset.

2) Press the【UP/DOWN】button to select【YES】.

  3) Press the【ENTER】button to escape and save.

Illustrations： "ADDR" "CTST" and "PROG" are not reset, the others reset to the underlined value of the word.

## 6.14 【PROG】SELF-PROGRAMMING PARAMETER RESET

1) Press the【ENTER】button in【PR L】menu, then enter to the【PROG】self-programming parameter reset.

2) Press the【UP/DOWN】button to select【YES】.

3) Press the【ENTER】button to escape and save.

## 6.15 LIGHTING PARAMETER DOWNLOADING EACH OTHER VIA DMX

## CABLE

1) Press the【ENTER】button in【SEND】menu, then enter to sending parameter to other lighting.

2) Press the【UP/DOWN】button to select【YES】.

3) Press the【ENTER】button to confirm sending.

Illustrations：

1)Please disconnect the connection of projector and DMX console before sending the parameter.

2)The information of【ADDR】can't be sent, can't be downloaded each other.

3)There will be an automatic reset of the other projectors after receiving parameter correctly.

# 7. Instruction for Compatible Sweden DMX Wireless Module(When no wireless ignore)

1.  Four mode to choose from, as bellow ;
    1)  Green mode ; Sweden compatibility such as PR River PR-4500.
    2)  Blue mode ; Sweden transmit compatible.
    3)  Yellow mode ; Standard 2.4G compatible.
    4)  Red mode ; Custom signal compatible such as WI-DMX.

2 . Red and Yellow mode have sub colors to choose from as bellow ,;
    1)  RED---( Red / Green / Blue / Yellow / pale Blue / Pink )
    2)  Yellow---( Red / Green / Blue / Yellow / pale Blue / Pink and White )

3. Changing color mode into the menu ,;
    1)  Go to the SET section then WIRE. Two option into the WIRE section ( Reset and KEY ).
    2)  note,; Reset every time to change mode however the sub colors are available without resetting
    3)  After reset use the Key and scroll with Enter to choose the colors. When selected press and hold Enter one second to confirm.

4. Green is receiving Sweden compatible mode. To reset on this mode simply hold ENTER on KEY menu for 3 seconds. This will delete the previous match when modifying install or transmitter. To synchronize again, press the button on the transmitter for new match. The indicator of the transmitter and fixture will flash at the same time. Control from DMX device gets active when the indicator stops blinking.

5. Blue mode is for transmitting Sweden compatible. As all transmitting function of this wireless module is not used, please ignore this function. Even when it's set as master it can not use wireless module to transmit DMX signals.

6. egg ,; Standard 2.4G China transmitter styx under RED will be compatible with the Lead Pak in Yellow mode and sub RED. Same if the Standard 2.4 China transmitter sticks are set to Green, set the Lead Pak into Yellow and sub Green. The WI-DMX will synchronize in the RED mode with the RED sub frequency.

# 8. Operating Control Instruction

## ➢ Master/Slave

When the fixtures work in master mode it will send out the signal for the slave synchronous with it. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters (20 lamps), should increase a signal amplifier.

# 9. XLR Cable Connecting

## ➢ XLR cable：

The standard connection way of the XLR is: one end connects to the male plug, and the other connects to the female. As below: pin 1: ground, pin 2: negative signal, pin 3: positive signal
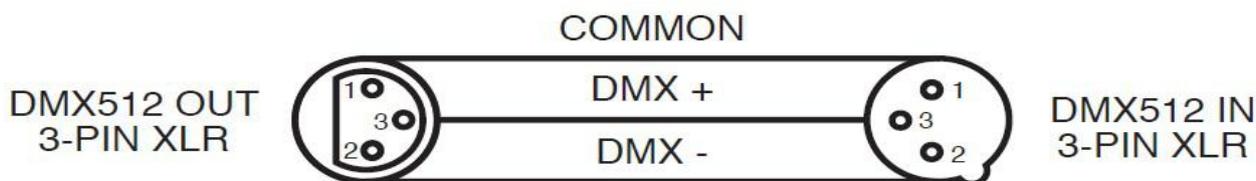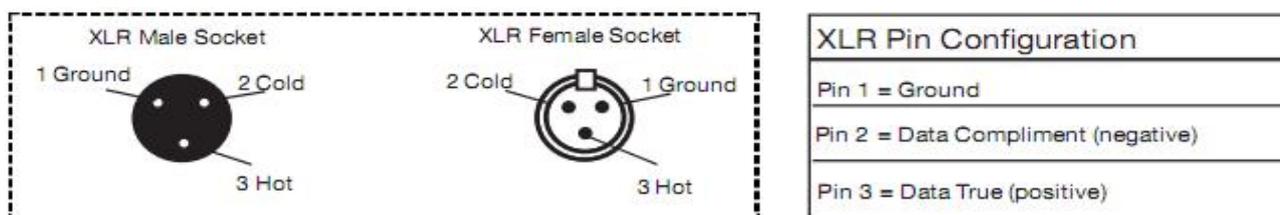




Noted：In order to avoid failures and interference signal transmission，we connect a resistance120Ω （ 1/4W ） at the end of the DMX connecting as below:
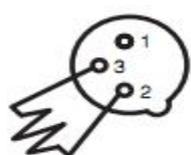


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

## ➢ The Conversion between 3 pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

| 3-Pin XLR to 5-Pin XLR Conversion | | |
|---|---|---|
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used | | Do Not Use |
| Not Used | | Do Not Use |

# 10. Trouble Shooting

| PROBLEM | REASON AND ACTION |
|---|---|
| The lightin g can't be started normally | ➢ Check the power connection is correct or not.<br>➢ Please detect the voltage.<br>➢ Power supply is damaged or incorrect connected. Call a qualified personnel to fix it.<br>➢ Connection of control board is not correct. Call a qualified personnel to fix it. |
| Out of console's control | ➢ Please check the DMX connector and the power connection is connected correctly or not. It means having signal if it shows twinkling of the decimal point which in the lower right corner of the screen when exiting the screen saver.<br>➢ Please check the DMX address setting of lighting is correct or not.<br>➢ Check【CHMD】setting is correct or not.<br>➢ Please check whether the DMX line is near to the high voltage wire or not. In that case, it will damage or interfere the DMX electric circuit. |
| The beam appears dim ,the brightness declines obviously | ➢ Check whether the【POW】is in over temperature protection situation or not, if yes, please take measures for ventilation. |