



User Manual: SquareLED TriColor IP65 14x3W

Manual | TriColor IP65 14x3W(6in1)

1. Summarization

Summarize: Thank you for purchasing our SquareLED TriColor . Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents caused by misuse.

Products introduction: The color-changing projecting light SquareLED TriColor is covered by high strength die-casting aluminum which is able to endure high temperature, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It takes uses high power 3W 3-in-1 LED, refers to each LED is composed by 1W R,G,B LED, with good color mixing effect and high brightness. Each color can be independently dimmer, fading changes and so on. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. International standard DMX 512 signal is requested.

Packing list: SquareLED TriColor 1 pc (waterproof power input/output extension, waterproof signal input/output extension cable), , Double Handle 1 set, waterproof power input cable 1pc, with plug, waterproof DMX input cable 1 pc, Connect to DMX512 Controller, The 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.

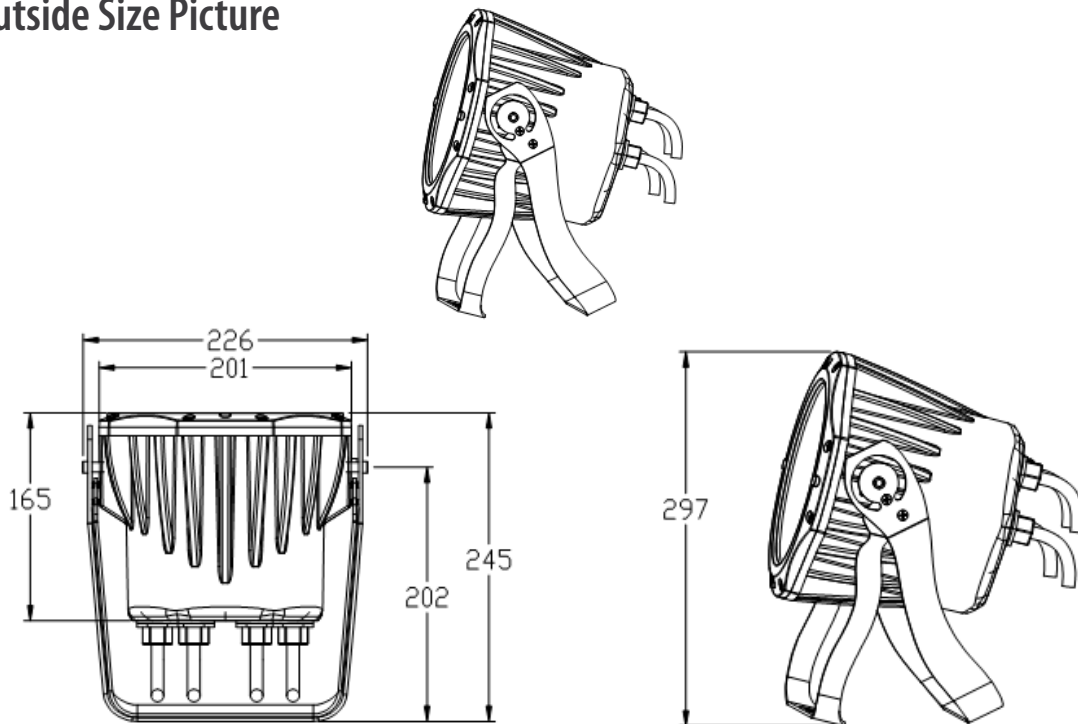
This light is designed for indoor use; working temperature is lower than 50 degree.

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.

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3. outside Size Picture



4. Main Function

- » high quality LED: low consumption, brightness, stable capability and long life
- » each color of LED with 256 dimming. RGB can make over 16.7 million colors
- » Linear dim 0%-100%, Strobe, gradual change, jumping change
- » DMX512 Controller, 4 button set DMX ID address with led display
- » auto run /master slave/interconnected multi-machine control
- » using switching power supply to protect the LED to work well
- » Protection rating: IP65, suited for outdoor or indoor use.
- » unique cooling mode: natural convection, No need fan
- » lens degree: 15°, 25°, 45° optional
- » DMX512 channels: 3 channels / 7 channels
- » body color: black/white/optional

5. DMX Control Function

3CH Mode:

Channel	DMX value	Control Function	Remarks	Priority
1CH	0-255	Red Dimming 0—100%		
2CH	0-255	Green Dimming 0—100%		
3CH	0-255	Blue Dimming 0—100%		

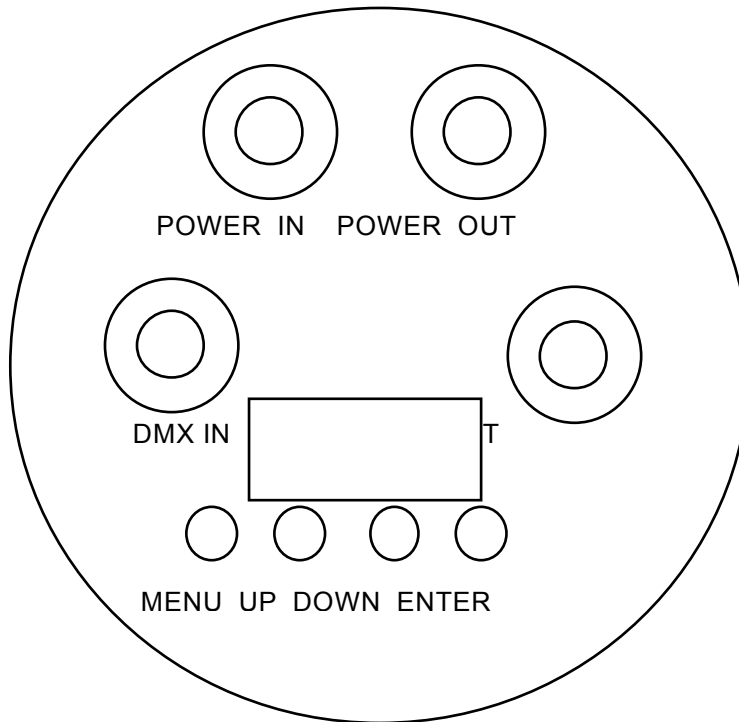
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7 CH Mode:

channel	DMX value	Control Function	Remarks	Priority
1CH	0-255	General Dimming 0—100%	Must use this channel, otherwise no function of dimming	1
2CH	0-255	Red Dimming 0—100%	Or Amber color	
3CH	0-255	Green Dimming 0—100%	Or white color	
4CH	0-255	Blue Dimming 0—100%		
5CH	0-14	Dimming	When the 6CH above is 32-223, this channel has the function of speed adjustment is 0-255	3
	15-255	Strobe Speed		
	0-31	Invalid		
	32-63	From Dark to Bright	Must use CH1, 2, 3, 4 otherwise no	
6CH	64-95	From Bright to Dark	light, from the 5CH, start the speed adjustment	2
	96-127	From Dark-Bright-Dark		
	128-159	RGB gradual changing	From the 5CH adjust the speed (CH1, CH2, CH3, CH4, CH7 is invalid)	
	160-191	3 colors jumping		
	192-223	7 colors jumping		
224-255	Standby (stop change)			
7CH	0-9	invalid	CH1 control color grayscale 0-100%,	2
	10-29	R 100%		
	30-39	R85%+Y15%		
	40-49	R60%+Y40%		
	50-69	Y 100%		
	70-79	Y85%+G15%		
	80-89	Y60%+G40%		
	90-109	G 100%		
	110-119	G85%+B15%		
	120-129	G60%+B40%		
	130-149	B 100%		
	150-159	B85%+C15%		
	160-169	B60%+C40%		
	170-189	C 100%		
190-199	C50%+P50%			
7	200-219	P 100%	CH1 control color grayscale 0-100%,	2
	220-229	P50%+W50%		
	230-249	W95%+Y5%		
	250-255	W 100%		

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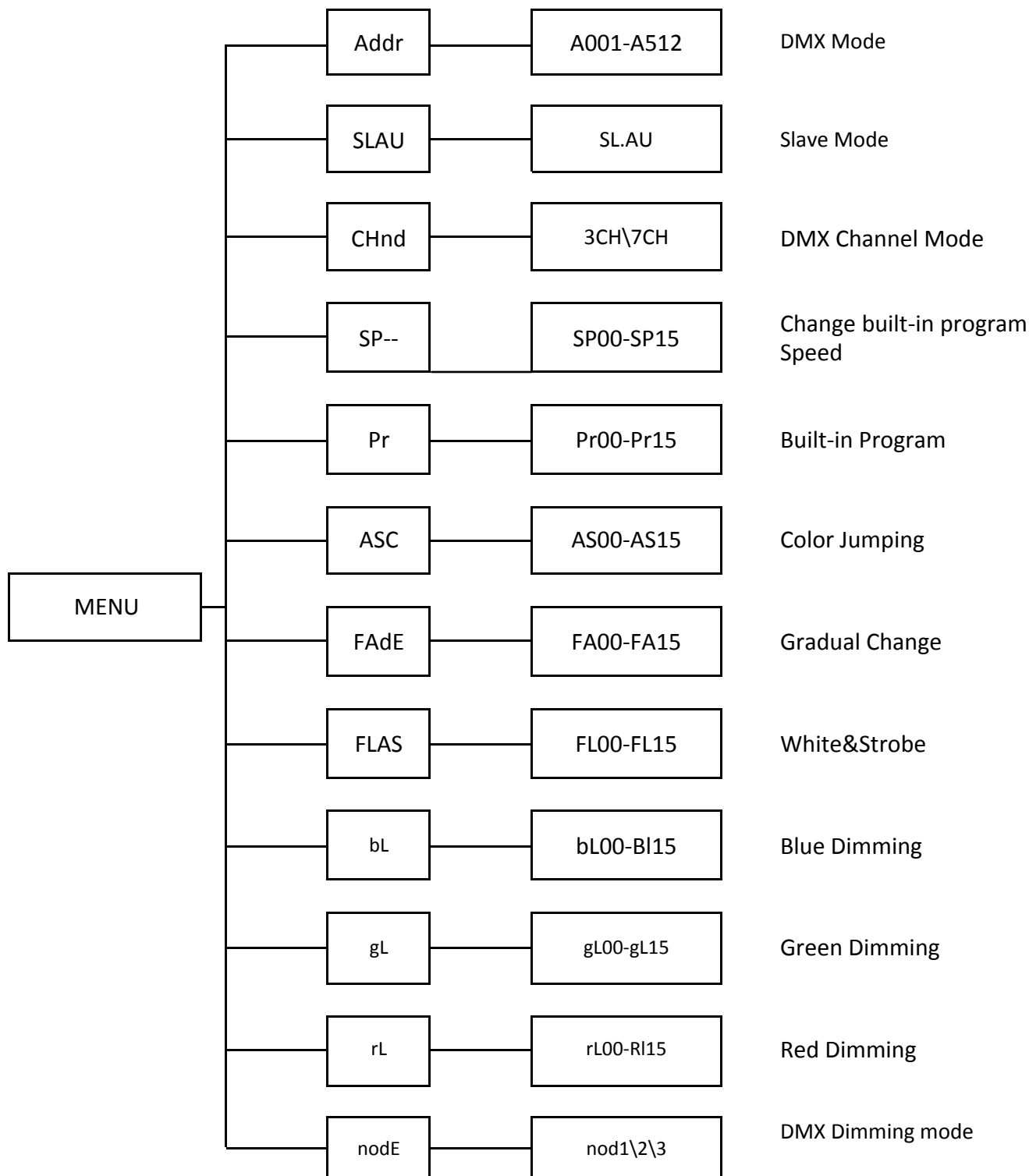
6. Display Operation



- » **MENU:** access the menu or return to a previous menu option
- » **UP:** menu selection or parameter increments
- » **DOWN:** menu selection or parameters decrease
- » **ENTER:** select the current menu option

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7. Menu Instruction



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1. Operating instruction:

MENU > Enter > UP/DOWN > ENTER

MENU is used to access the menu or return to a previous menu option. It can not be used to select and store the current menu option. Press UP / DOWN to choose a desired menu item. Here are the operation details :

- » "addr": DMX mode (A001-A512)
- » "SLAU": Slave receiving mode
- » "CHnd": DMX Chanel mode(3CH/7CH)
- » SP --: built-in program speed change model (SP00-SP15, SP00 is the fastest)
- » "Pr"; Built-in program (Pr00-Pr15 16 program in all)
- » "ASC"; seven colors jumping (AS00-AS15 speed adjustable)
- » "FAde": gradual change model (FA00-FA15 speed adjustable)
- » "FLAS": white color strobe (FL00-FL15 speed adjustable)
- » "bL": blue color brightness adjustment mode (b00- b15, b15 the brightest)
- » "gL": green color brightness adjustment mode (g00- g15, g15 is the brightest)
- » "rL": red color brightness adjustment mode (r00-r15, r15 is the brightest)
- » "rL": red color brightness adjustment mode (r00-r15, r15 is the brightest)

Press ENTER to access the further menu setting. This process can be saved automatically; that means you will enter the process saved previously when you activate the light next time. For example, please operate as follows if you need to select DMX mode A001:

- » Press MENU, go back to the initial setting
- » Press UP / DOWN until Addr
- » Press ENTER to choose, the display will glinting at this moment
- » Press UP / DOWN to change the address code to select A001
- » Press ENTER to select and store the current menu options. DMX mode will be
- » stored automatically and the screen will stop glinting.

Details of program built inside Pr- -

- | | | |
|---------------------------------|-------------------|-------------------------|
| » Pr00:red | Pr01:green | Pr02:blue |
| » Pr03:amber | Pr04:cyan | Pr05:purple |
| » Pr06:white | Pr07:red+strobe | Pr08:green+strobe |
| » Pr09:blue+strobe | Pr10:amber+strobe | Pr11:cyan+strobe |
| » Pr12:purple+strobe | Pr13:white+strobe | Pr14:RGB jumping change |
| » Pr15: 7 colors jumping change | | |

Note: Pr07--- Pr15 Can change the content Of SP, correct the speed of jumping change , SP00 is the fastest, SP15 is the slowest

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8. Operating Control Instruction

Master/Slave:

Master: The master should always working as a master as long as it is not set in a DMX mode whatever other modes it is. And it send out the signal so that 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.

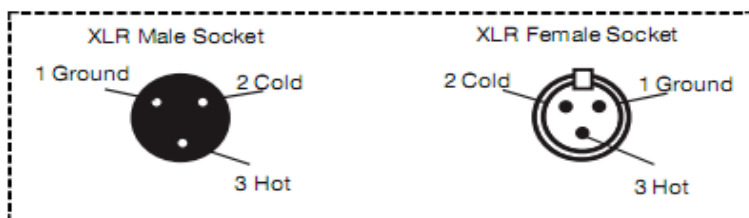
Slave: he Slave must be set in DMX mode and the address code should be A001, to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

Note: This product uses input and output power cord 2.5 qm copper core wire, power line in series, when 220V AC should less than 45 lights, and 110V AC less than 25 lights!!

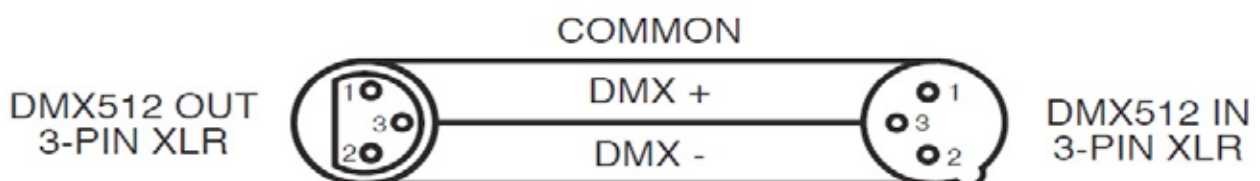
9. XLR cable connecting

XLR cable:

The standard connection way of the XRL is: one end connect to the male plug ,and the other connect to the female.



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)



Noted: In order to avoid failures and interference signal transmission, we connect a resistance 120Ω (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.

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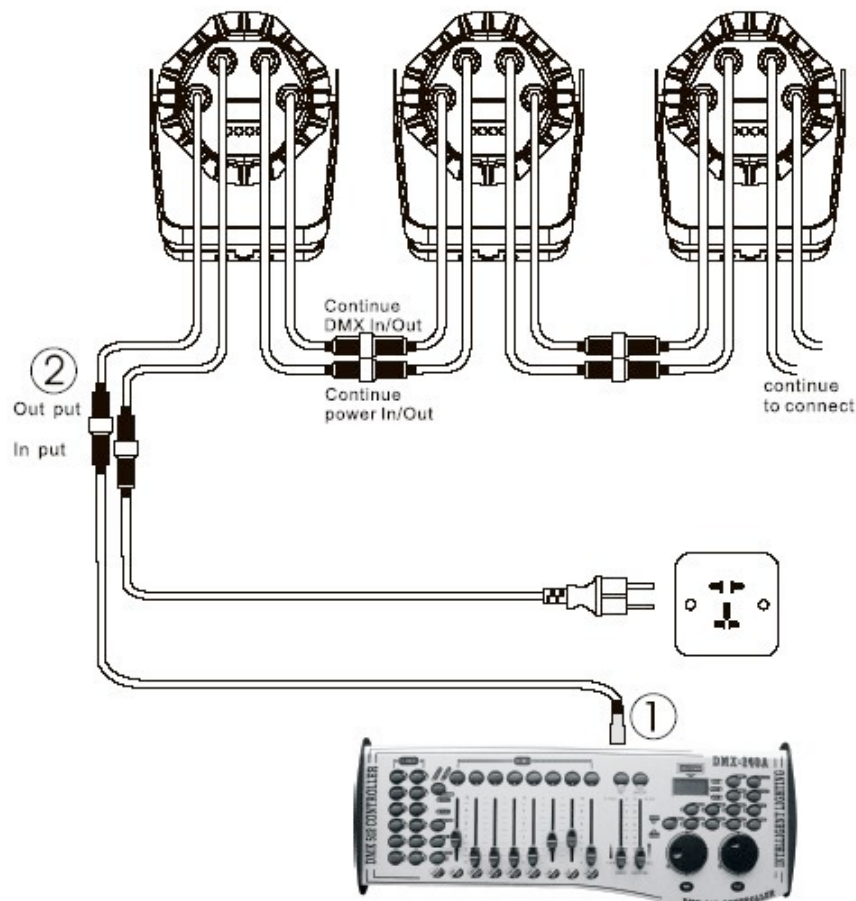
The Conversion between 3 pin and 5 pin XLR

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. Connecting picture

Light connecting picture:



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11. Trouble Shooting

Problem	Checking Way
Can not turn on the light	<ul style="list-style-type: none">• Check the power source plug is in normal or not• Check the switch of the lights is off or on• Check the fuse if in normal
DMX can not control it	<ul style="list-style-type: none">• Check the DMX cable is connect to the lights or not• Check the DMX512 controller work in normal or not• Check the DMX cable is normal or not• Check if the lights is in DMX mode (A001)
Display not bright	<ul style="list-style-type: none">• When connect to the electricity, did the led flash one time? If so, the power source is normal; If not, please check if the switch and the transformer has power out• Check if the power input of the IC board is normal• Check if the cable connect to the display loose• Change the main board to see if it is normal.• Chang the display
LED not light	<ul style="list-style-type: none">• When connect to the electricity, did the led flash one time? If so, the power source is normal; If not, please check if the switch and the transformer has power out• Check if the power input of the IC board is normal• Check if the cable connect to the display loose• Change the main board to see if it is normal.• Chang the display
Some of the LED not light	<ul style="list-style-type: none">• LED is connected by leds in series first, then connect parallel, so please check if the leds is loose• Use the multimeter to check if the led is bright or not, of not, please change the led• check whether current limiting resistor is normal or not• Check constant current IC is normal or not (compared with the normal IC)
St	<ul style="list-style-type: none">• Check the switch of this color is normal or not• Change the IC control board
Noted: only professional persons can do as above!	

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12. Technical Specification

- Input voltage: AC100V-264V/47-63HZ
- Output voltage: DC32V
- Consume: 52W
- Lamp Type: High Power LED(3W)
- Lamp Spec: 3-in-1 LED (14 PCS)
- Control Signal: DMX512, Master-Slave
- Control mode: stand alone/ DMX/ master and slaver
- Channel: 3CH, 7CH
- Color effect: R, G, B color mixing
- Function Effect: dimmer, strobe, eotic, gradual change
- Beam Angle: 15°,25°,45°
- Cooling mode: Natural Convection
- Protection rate:IP65
- Anti-electricity intension: 1.5KV
- Insulation Resistance: >2MΩ
- Size: 235*165*300mm
- Net Weight: 3.7kg



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