



USER MANUAL

Ultra bright LED BAR RGB, 252 LEDS IP20 (LED-BAR-252IP20)



catalogue

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Please read over this manual before operating the light

1.Summarize

➤ Summarize

Thank you for purchasing our LED wall wash lighting. 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 introduce

This led par color-changing projecting light is covered by tensile aluminum, designed in a fashion of hydrodynamic form. It takes uses high power R,G,B 3 kinds LED. Each kind of LED can be independently dimmer, color temperature from 1000K to 6000K. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, water change, gradual change, fading and so on. International standard DMX 512 signal is requested.

➤ Packing list

- LED-BAR-252IP20 light 1PC
- bracket 2 pcs
- T-shaped screw 2 pcs
- DMX cable 1 pc (sold alone)
- The use manual
- Warranty Card

2.Safety Information

➤ Safety Notes

! Enquire the skilled people before any repair;

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

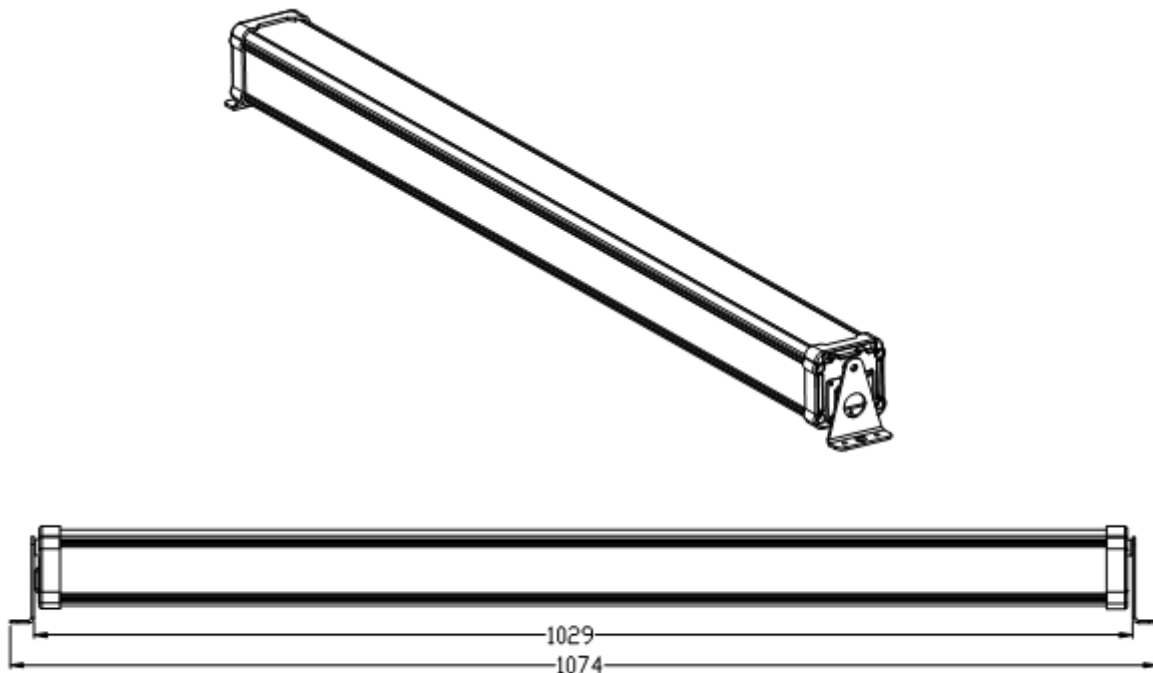
! Avoid direct eye exposure to the fixture when it is on;

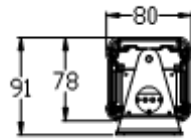


➤ Safety instruction

- 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, 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

- high quality LED light source, low consumption, high brightness, stable function, and long life
- each color of LED with 256 dimming. RGB can make over 16.7 million colors.
- dim 0%-100%, Strobe、 gradual change、 jumping change
- DMX512 Controller , 3 button set DMX ID address with led display, each pixel with 84 LEDs and total in 3 pixel.
- auto run /sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- 13channels

5.DMX Control Function

Channel	DMX Value	Control Function
CH1	0——10	Dimming
	11——51	Dimming+ strobe
	52——91	Gradual change
	92——131	Mode 1
	132——150	Mode 2
	151——169	Mode 3
	170——189	Mode 4
	190——209	Mode 5
	210——229	Mode 6
	230——249	Mode 7
	250——255	Comprehensive mode1-7
CH2	0-9	Red dimming (one pixel to another)

	10-255	Red general dimming 0-100%
CH3	0-9	Green dimming (one pixel to another)
	10-255	Green general dimming 0-100%
CH4	0-9	Blue dimming (one pixel to another)
	10-255	Blue general dimming 0-100%
CH5	0-255	The first red pixel dimming 0-100%
CH6	0-255	The first green pixel dimming 0-100%
CH7	0-255	The first blue pixel dimming 0-100%
CH8	0-255	The second red pixel dimming 0-100%
CH9	0-255	The second green pixel dimming 0-100%
CH10	0-255	The second blue pixel dimming 0-100%
CH11	0-255	The third red pixel dimming 0-100%
CH12	0-255	The third green pixel dimming 0-100%
CH13	0-255	The third blue pixel dimming 0-100%

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

7.Manual Instruction

- MENU:

A001: DMX receiving mode, the address is A001-A512

“SOUF”: sound control add strobe mode (UP/Down no effect)

“SOUA”: sound control no strobe mode (UP/Down no effect)

“SP00”:built-in speed adjustable SP00-SP15

”Pr00”; Built-in program mode,Pr00-Pr15

”FA00”: gradual change model (FA00-FA15 speed are the quickest)

”FL00”: strobe model (FL00-FL15 speed are the quickest)

➤ operation

Press Menu key each time will switch a kind of model. UP/Down can change the content of this model, the parameter would be saved automatically, which means you will enter the process saved previously when you start the light next time.

Pr00:red;	Pr01:green	Pr02:blue
Pr03:red+green	Pr04:red+blue	Pr05:green+blue
Pr06:red+green+blue	Pr07:program 1	Pr08:program 2
Pr09: program 3	Pr10: program 4	Pr11: program 5
Pr12: program 6	Pr13: program 7	Pr14: program 8
Pr15: Comprehensive program 1-8;		

Note:Pr7--- Pr15 Can change the content Of SP , SP0-SP15.

8.Operating Control Instruction

➤ Master/Slave

Master : The master should always work 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 0.75 m m² copper core wire,

power line in series, when 220V AC should less than 35 lights, and 110V AC less than 20 lights! ! !

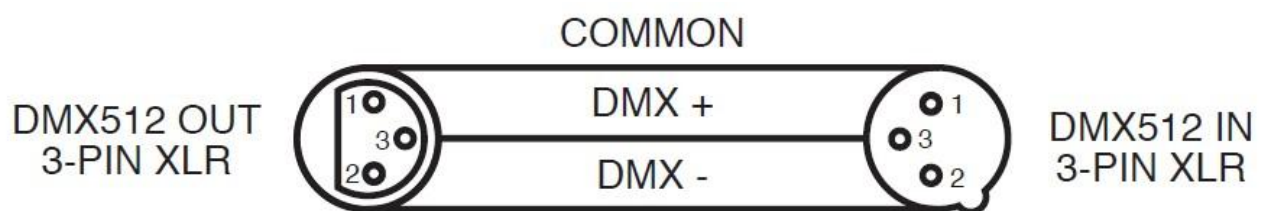
9.XLR cable connecting

➤ XRL cable :

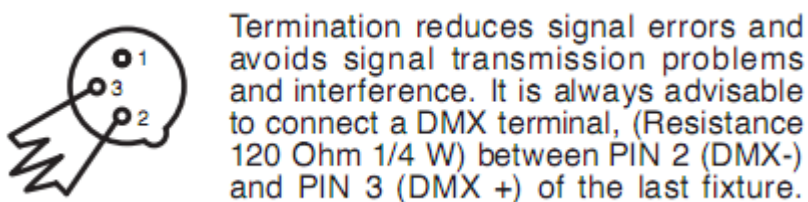
The stand connection way of the XRL is: one end connect to the male plug ,and the other connect to the female.



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:



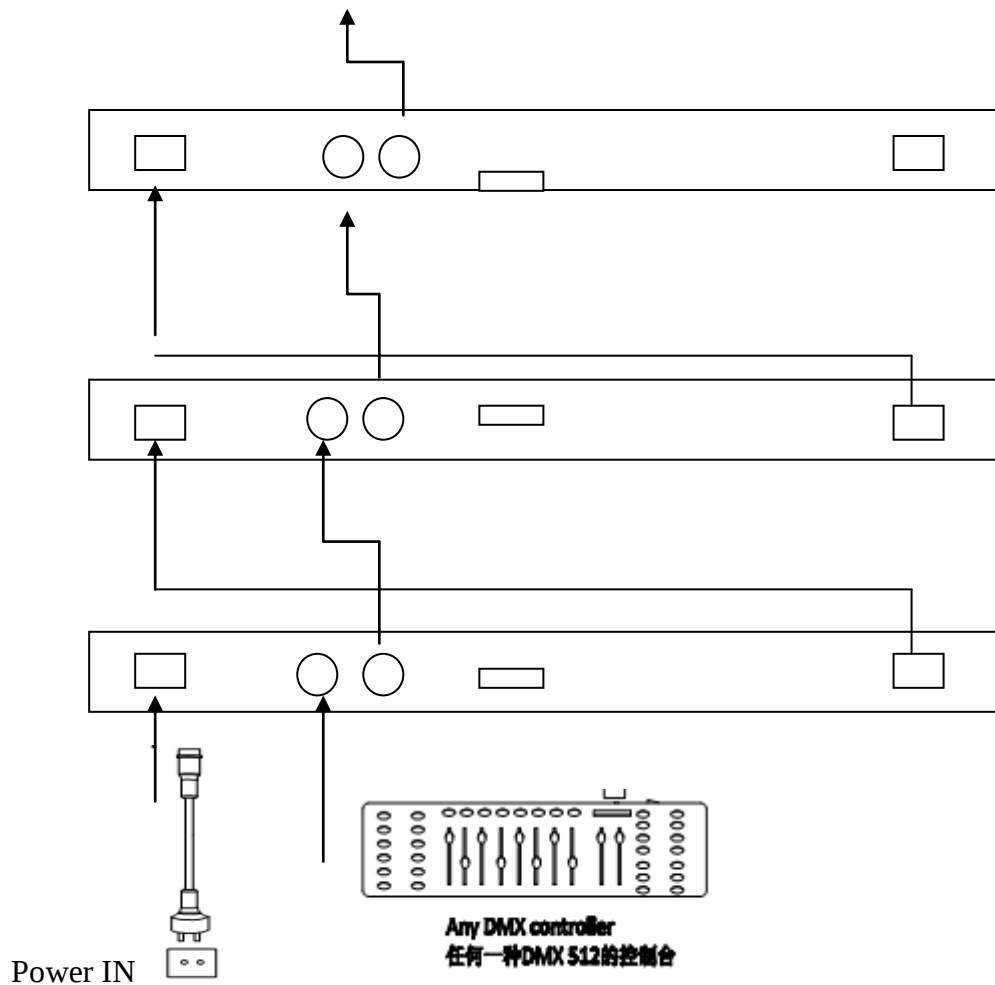
➤ The Conversion between 3pin and 5 pin XLR

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 :



11.Problem Analysis

Problem	Checking way
Can not turn on the light	◆ 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	◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not

it	◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode (A001)
Display not bright	◆ 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. ◆ Change the display
LED not light	◆ 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. ◆ Change the display
Some of the LED not light	◆ LED is connect 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)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted : only professional persons can do as above !

12. Technical Specification

- Adopts high brightness LED digital tubes showing DMX address code , easy to operate
- Input voltage : AC 100V-264V/50-60HZ
- Consume : 22W
- Lamp Type : LED(Φ10)
- Lamp Spec : amber (108PCS) , white (144PCS)
- Life span:50000-100000 hours
- Anti-electricity intension : 1.5KV
- Insulation Resistance : > 2 MΩ
- Control mode : stand alone/ master and slaver
- Channel : 9CH
- Beam Angle: 25°
- Size: : 1000*60*60mm
- Net Weight : 2KG



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