



# Hyper Bar 252 USER MANUAL

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Please read over this manual before operating the light

# 1. Summary

Thank you for purchasing our LED Bar. Please read these instructions carefully prior to operation. Use the fixture according to these instructions to reduce the chance of damage and accident.

## ➤ Product Introduction

This product uses high power R, G, B LED diodes. Each color can be manipulated independently. It can be operated via built-in programs or by international standard DMX 512 signal.

## ➤ Packing list

- Hyper Bar 252 Light 1pc
- Bracket 2 pcs
- T-shaped screw 2 pcs
- DMX cable 1 pc
- User manual 1pc
- Warranty Card 1 pc

# 2. Safety Information

## ➤ Safety Notes

! Repairs should be attempted only by qualified professionals;

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

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



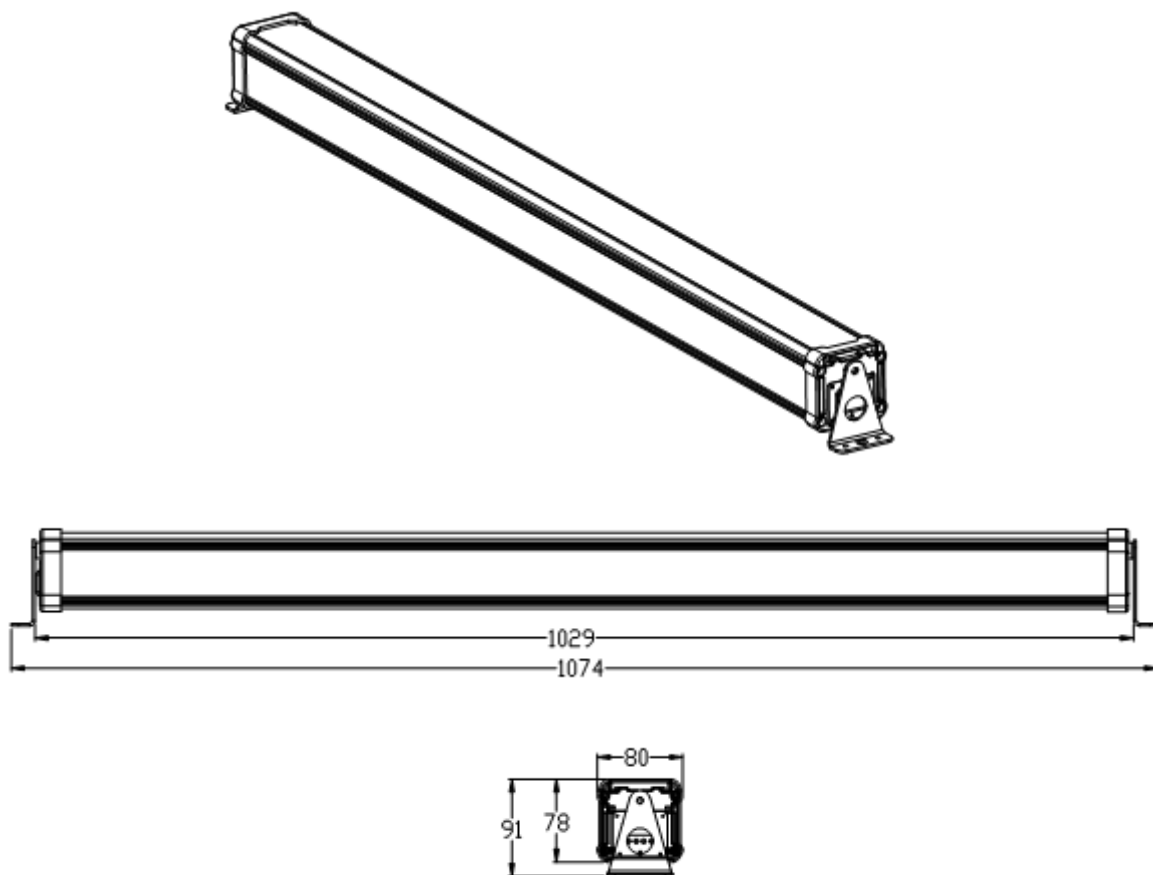
## ➤ Safety Instructions

- Make sure the power supply voltage is consistent with the requirements of this fixture.
- Before the installation, please ensure that the light's fasteners and mechanical structure have been received in good condition and there is no damage.
- This light is designed for indoor use only. Ambient temperature should not exceed 40

degrees Celsius.

- This fixture may be mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items within 0.5 meters of any surface of this unit.
- Please make sure that this fixture is properly grounded.

### 3. Dimensions



## 4. Main Functions

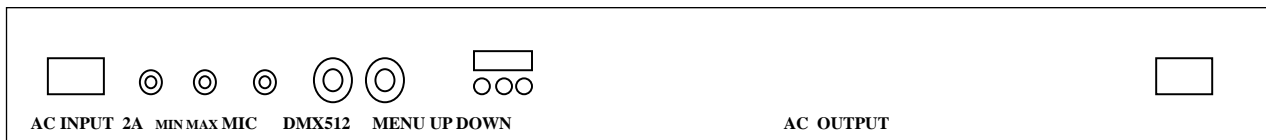
- High quality LED's: low power consumption, high brightness, stable output and long lifetime.
- Each color of LED dims in 256 increments.
- Combined, RGB yields over 16.7 million colors combinations.
- 9 Pixels of light: 3x Red, 3x Green, 3x Blue
- Dims 0%-100%, Strobes, Color change by fading, Color change by snapping
- Modes: Auto run /sound activated/master slave/DMX remote controlled
- Using switching power supply for optimal functioning and light weight.
- DMX512 channels: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%

<b>CH6</b>	<b>0-255</b>	<b>The first green pixel dimming 0-100%</b>
<b>CH7</b>	<b>0-255</b>	<b>The first blue pixel dimming 0-100%</b>
<b>CH8</b>	<b>0-255</b>	<b>The second red pixel dimming 0-100%</b>
<b>CH9</b>	<b>0-255</b>	<b>The second green pixel dimming 0-100%</b>
<b>CH10</b>	<b>0-255</b>	<b>The second blue pixel dimming 0-100%</b>
<b>CH11</b>	<b>0-255</b>	<b>The third red pixel dimming 0-100%</b>
<b>CH12</b>	<b>0-255</b>	<b>The third green pixel dimming 0-100%</b>
<b>CH13</b>	<b>0-255</b>	<b>The third blue pixel dimming 0-100%</b>

## 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 Instructions

- MENU:
  - ”addr”: DMX mode (A001-A512)
  - ”SP”; built-in program speed change model (SP00-SP15, SP00 is the fastest)
  - “SOUF”:sound control with strobe
  - “SOUA”:sound control no strobe
  - “SP00”:built-in speed adjustable SP00-SP15
  - ”Pr”; Built-in program (Pr00-Pr15 16 programs in all)
  - ”FA00”: gradual change model (FA00-FA15 speed adjustable)

”FL00”: white color strobe (FL00-FL15 speed adjustable)

➤ Operation

Pressing “Menu” repeatedly cycles through the available modes. The unit will retain settings even after the power has been disconnected.

Description of built-in programs (Pr- -)

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. Master/Slave Operation

➤ **Master/Slave**

**Master:** Units are always set in Master mode (i.e. outputting DMX signal that mirrors their own operation) unless they are set in DMX mode. Signal lines longer than 60 meters or 20 fixtures should utilize a signal amplifier.

**Slave:** Daisychain all the slave units to the master unit using DMX cable. Set all slaves to DMX mode and address them to channel 1 (A001).

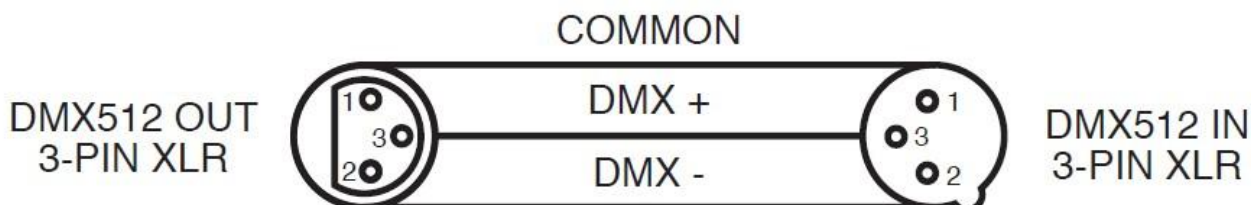
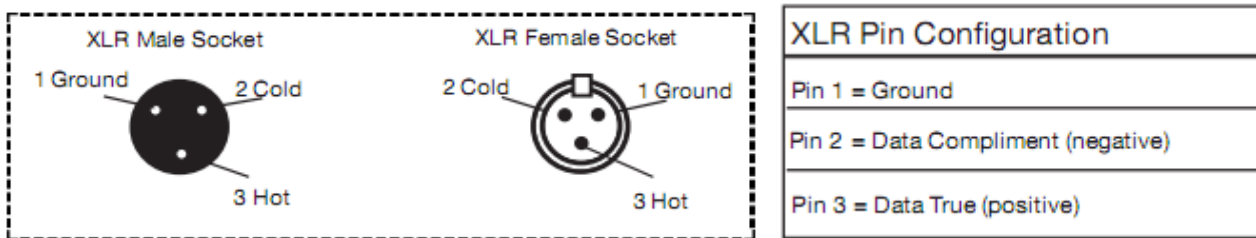
**Note:** This product uses input and output power cord 0.75 mm<sup>2</sup>copper core wire that allows the units to be powered together. When using 220V AC, link no more than 35 units together. Using 115V AC, link no more than 20 lights! ! !

## 9. XLR Cable Connections

➤ **XLR cable : (DMX Cable)**

XLR/DMX connections are connected male to female, as shown below:

pin 1:ground,pin 2: negative signal, pin 3: positive signal



Note : In order to avoid failures and interference with signal transmission, use a terminator plug. Between pins 2 and 3, connect a resistance  $120\Omega$  (1/4W) at the end of the DMX connecting as below:



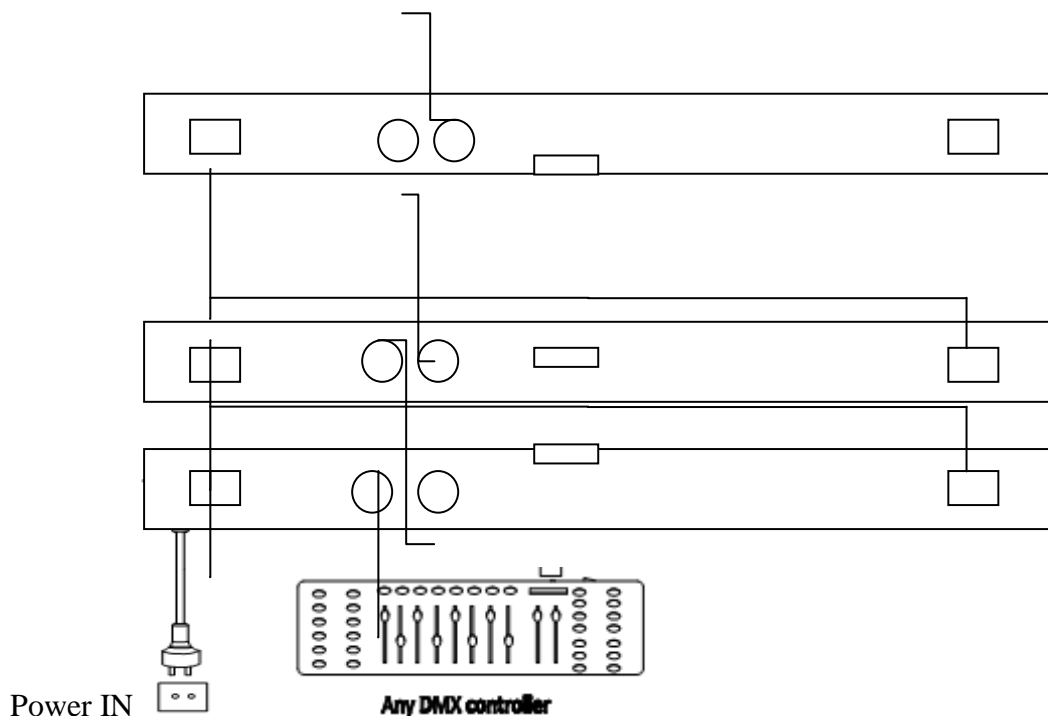
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

- Conversion between 3-pin and 5-pin XLR
- If the output cable of DMX 512 controller is the 5-PIN, please use a 5-PIN to 3-PIN adapter.

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. Connection Diagram

- Light connecting picture:



## 11. Troubleshooting

**Note : Only qualified professionals should attempt to service this unit!**

Problem	Possible Solution/Cause
Can not turn on the light	<ul style="list-style-type: none"> <li>● Ensure the power plug is fully inserted</li> <li>● Ensure the power switch for the lights is on</li> <li>● Check the fuse continuity</li> </ul>
DMX not functioning	<ul style="list-style-type: none"> <li>◆ Check the DMX cable is connect to the lights</li> <li>◆ Check the DMX512 controller for signal output</li> <li>◆ Check if the lights is in DMX mode (A001)</li> </ul>
Display not bright	<ul style="list-style-type: none"> <li>◆ When initially powered, did the led flash one time? If so, the power source is normal. If not, please check voltage switch or voltage supply.</li> <li>◆ Check if the power input to the IC board is normal</li> <li>◆ Check if the cable connect to the display is loose</li> <li>◆ Change the main board to see if it is normal.</li> <li>◆ Change the display</li> </ul>

<p>LED's not coming on.</p>	<ul style="list-style-type: none"> <li>◆ When connect to the electricity, did the led flash one time? If so, the power source is normal. If not, please check voltage switch or voltage supply.</li> <li>◆ Check if the power input of the IC board is normal</li> <li>◆ Check if the cable connect to the display loose</li> <li>◆ Change the main board to see if it is normal.</li> <li>◆ Change the display</li> </ul>
<p>Some of the LED's not coming on.</p>	<ul style="list-style-type: none"> <li>◆ LED is connect in series first, then in parallel. Check to see if any LED's are loose.</li> <li>◆ Use the multimeter to check if the led is powered or not. If not, please change the led.</li> <li>◆ Check whether current limiting resistor is normal or not</li> <li>◆ Check constant current IC is normal or not (compared with the normal IC)</li> </ul>
<p>Single color LED's Always bright/not bright</p>	<ul style="list-style-type: none"> <li>● Check the switch of this color is normal or not</li> <li>● Change the IC control board</li> </ul>

## 12. Technical Specifications

- Input voltage: AC 100V-264V/50-60HZ
- Power Consumption: 22W
- Lamp Type: LED( $\Phi$ 10)
- Lamp Spec: red (108PCS), green (72PCS), blue (72PCS)
- Life span: 50000-100000 hours
- Control mode: stand alone/ master and slaver
- Channel: 13CH
- Beam Angle: 25°
- Anti-electricity intension: 1.5KV
- Insulation Resistance: > 2 M $\Omega$
- Size: 1000\*60\*60mm
- Net Weight: 2KG