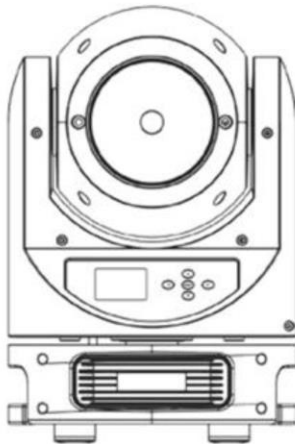


## Pixel Beam

### LED BEAM



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place

User manual

**Please read the instructions carefully before use**

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## Statement

The product has full capability and intact packing when it leaves factory. All the users should comply with provided warnings and manual. Any damages caused by misuse are not included in our guarantee. We cannot be responsible for any malfunctions & problems owing to ignoring the manual.

# 1. Safety Instructions

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is  $T_a$ : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C.
- DO NOT touch the housing bare-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In case of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance centre. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

## Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.

- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

### **Caution:**

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs by yourself. If your unit requires service, please contact your nearest dealer.

### **Installation:**

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at the safe place where it is not available for other people.

## **2. Technical Specification**

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 130W

Light Sources: 60W 4in1 RGBW LED

Beam Angle: 4°

### **Control**

DMX Channel: 18 Channel

Control Modes: DMX512, Auto, Master-Slave, Music

### **Pan/Tilt**

Continuous PAN and TILT rotation

Pan/Tilt Resolution: 16 bit

### **Construction**

Display: LCD Display

DMX In/Out socket: 3-pin XLR sockets

Power Socket: Power IN&OUT

Protection Rating: IP20

## Features

Pan: 540° or infinite rotating

Tilt: 360° or infinite rotating

Strobe: 1-25 times/sec or random strobe

Variable electronic dimmer (0-100%).

LCD display

Pan/tilt inverts option.

Reset to factory settings option

## Size

Dimension: 210\*318\*210cm

Packing Size: 300\*415\*270MM

## Weight

Net Weight: 5.3Kgs

Gross Weight: 6Kgs

## 3. How to control the device

The DMX512 is widely used in intelligent lighting control system. You can connect several lights together with a DMX 512 controller. DMX in and DMX out, 3 pin XLR connectors are: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

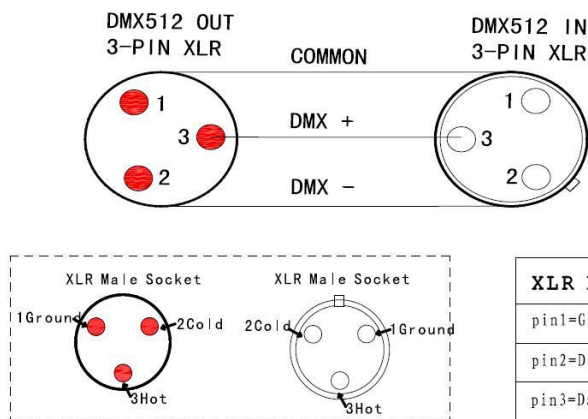


Figure2

XLR Pin Configuration	
pin1=	Ground
pin2=	Data Compliment (negative)
pin3=	Data true (positive)

## Display:

Access control panel functions using the four panel buttons located directly under the LCD Display.

Press <ESC> button, it will show the all the menu options, press the <UP> <DOWN> button to select menu function, the display will show immediately the first available option for the selected menu function. Select a menu item, and press <ENTER> button to save.

Press the <ESC> button repeatedly until you reach the desired menu function. Use the <UP> and <DOWN> buttons to navigate the menu options. To return to the previous option or menu without changing the value, press the <ESC> button.

<b>Dmx512 address set</b>	Dmx512 Address: 【001】 ... 【512】	
<b>Run mode</b>	Run mode: [DMX] [Slow] [Fast] [Sound] [Manual]	
<b>Invert PAN/TILT</b>	Invert PAN: [No]/[Yes] Invert TILT: [No]/[Yes]	
<b>Display set</b>	Invert word: [No]/[Yes] English/Chinese: [EN]/[CH] LCD Backlight on: [Yes]/[No]	

<b>Manual set</b>	PAN PAN_C PANMICO TILT TILT_C TILTMICO XY_SPEED DIM STROBE DIM_R DIM_G DIM_B DIM_W STA_CH MOV_CH SHOW_SP MACRO_CH	
<b>Sound sense</b>	Sound sense: [000%]...[100%]	
<b>System set</b>	System information	The version:V1 PAN reset: Normal Tilt reset: Normal
	Default settings?	Default settings: [Yes?]
	Code settings	Enter your 8 codes! <u>  1 DOWN 7 UP  </u>
<b>Reset</b>	Reset [Yes?]	

## 18 DMX channels mode:

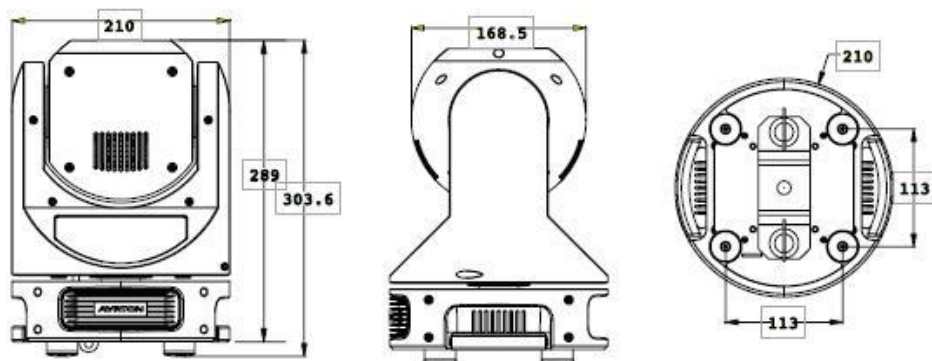
Channel	Value	Function
1		<b><u>PAN:</u></b>
	0-255	Pan Movement 0~540
2		<b><u>PAN Infinite rotating:</u></b>
	0-55	Pan rotation stop
	56-155	Infinite rotation CW from slow to fast
	156-255	Infinite rotation CCW from slow to fast
3		<b><u>Pan Fine 16bit:</u></b>
	0-255	Fine control of Pan movement
4		<b><u>TILT:</u></b>
	0-255	Tilt Movement 0~360
5		<b><u>TILT Infinite rotating:</u></b>
	0-55	Tilt rotation stop
	56-155	Infinite rotation CW from slow to fast
	156-255	Infinite rotation CCW from slow to fast
6		<b><u>Tilt Fine 16bit:</u></b>
	0-255	Fine control of Tilt movement
7		<b><u>Speed Pan/Tilt movement:</u></b>
	0-225	Speed fast to slow
8		<b><u>Dimmer:</u></b>
	0-225	0-100% linear Dimmer, from dark to bright
9		<b><u>Strobe:</u></b>
	0-55	Neutral
	56-155	Synchronize strobe speed from slow to fast
	156-205	Random strobe
	206-255	Thunder strobe
		<b><u>Red:</u></b>
10	0-255	Red Color ( 0%~100% )



11		<b><u>Green:</u></b>
	0-255	Green Color ( 0%~100% )
12		<b><u>Blue:</u></b>
	0-255	Blue Color ( 0%~100% )
13		<b><u>White:</u></b>
	0-255	White Color ( 0%~100% )
14		<b><u>Effect of Static Perform:</u></b>
	0-24	Effect 1
	25-49	Effect 2
	50-74	Effect 3
	75-99	Effect 4
	100-124	Effect 5
	125-149	Effect 6
	150-174	Effect 7
	175-199	Effect 8
	200-224	Effect 9
	225-249	Effect 10
	250-255	Effect of running water, speed control from 16 channel
15		<b><u>Effect of move perform:</u></b>
	0-49	Effect 1, speed control from 16channel
	50-99	Effect 2, speed control from 16channel
	100-149	Effect 3, speed control from 16channel
	150-255	Effect 4, speed control from 16channel
16		<b><u>Lighting show speed:</u></b>
	0-255	Speed from fast to slow
		<b><u>Marco:</u></b>
		0-49 No function
	50-99	17 Effects of static perform(built-in effect)
		cooperate 15,16,8 channel to use
	100-149	Effect of dynamic perform(built-in effect)

		cooperate 15,16,8channel to use
	150-199	Auto running
	200-255	Sound control
18		<b><u>Reset</u></b>
	0-250	No function
	251-255	Fixture reset, 3s effective

## 4.Diagram



## 5. Trouble Shooting

There are a few common problems presented below, that may occur during operation. Here are some suggestions for easy troubleshooting:

### **A. The unit does not work, no light and the fan does not work**

- 1. Check the connection of power and main fuse.*
- 2. Measure the mains voltage on the main connector.*
- 3. Check the power on LED.*

### **B. Not responding to DMX controller**

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.*
- 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.*
- 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.*
- 4. Try to use another DMX controller.*
- 5. Check if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuit.*

### **C. One of the channels is not working well**

- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.*
- 2. The motor's drive IC on the PCB might be out of condition.*

## 6. Cleaning the device

Cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the unit operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.