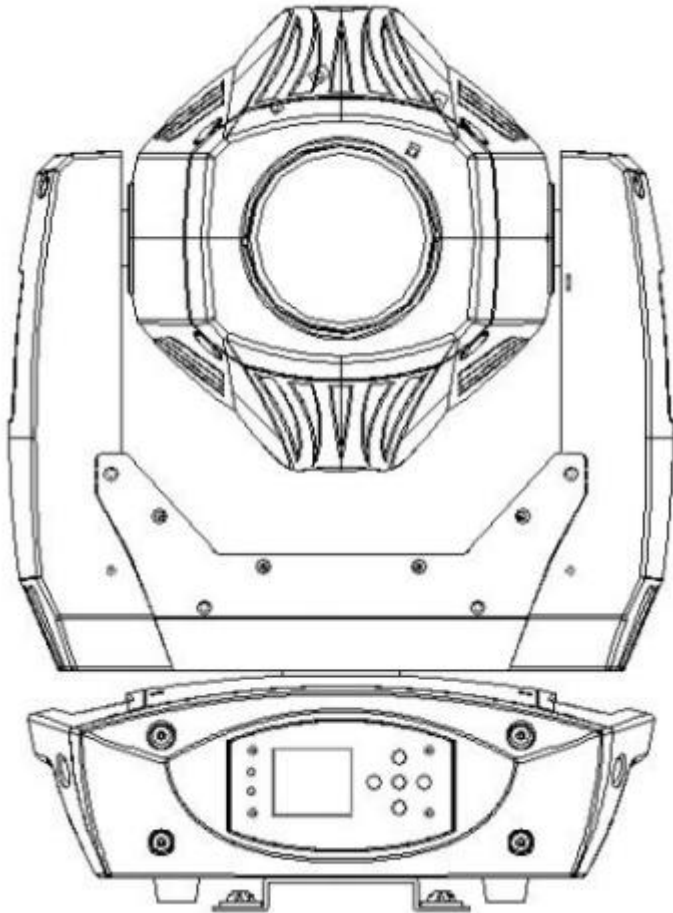


# 200w 3in1 led spot moving head



User manual

Please read the instructions carefully before use

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### statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore 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-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
  
- ⊠ In the event 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 center. 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 yourself. In the unlikely event your unit may require 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. Also 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 a place where is out of the touch of people.

## 2. Technical Specifications

**Light Sources:** 200W High Power White LED

Max Power Consumption: 290W

Power Input: 100-240V, 50/60Hz

Color Temperature: 7500K

LED Lifespan: 50000 hours

Operating mode: DMX512, Auto, Sound active, Master/slave

Channel mode: 18 DMX512 Channel

Pan: 540° (16bit) Electric correction

Tilt: 270° (16bit) Electric correction

Color wheel: 9 colors + open, with rainbow effect

Gobo wheel: 10 gobos + open, with rotation and running water effect

Rotation gobo wheel: 7 gobos + open

Prism: 4 facet prism with bi-direction rotating

0-100% linear dimming, fit advanced iris aperture zoom effect, fast, precise, smooth, one of the most advanced optical system in the same class of products.

Strobe: 0-25Hz/s, sync pulse strobe, random pulse stroboscopic, etc.

Frost: With frost effect

Zoom range: 7° -21°

Display: Touch screen, English and Chinese interchangeable, reversible display.

Over heat protection

IP level: IP20

Packing Size: 343\*232\*537mm

N.W: 15kgs

Gross weight: 18kgs

# 3. How To Control The Unit

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

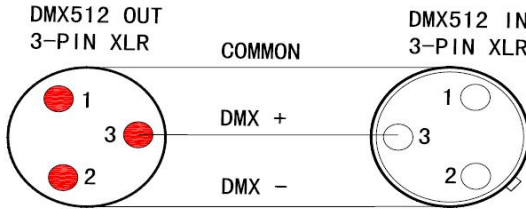
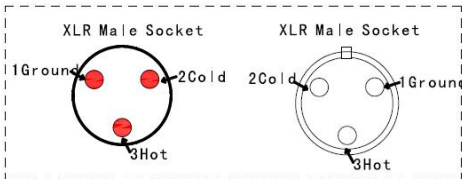


Figure2



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

## Display:

- MENU To select the programming functions
- DOWN To go backward in the selected functions
- uP To go forward in the selected functions
- ENTER To confirm the selected functions

## Set DMX Address Code

- 1 Press "**Menu**" to "Set DMX Address", and press "**ENTER**" keys to enter into
- 2 Show "Set DMX Address DMX Address:001", Press the "**UP and DOWN**" keys to amended

Press "**ENTER**" keys to save and Exit, Press the "**MENU**" Keys does not save and

Exit

MainMenu	Second Menu	Third Menu	Forth Menu	
<b>Settings</b>	Dmx Address	1 - 512		
	Fixture Set	Dmx Mode	STD / EXT	
		Run Mode	DMX / Host	
		Pan Inverse	Close / Open	
		Tilt Inverse	Close / Open	
	Display	Language	CH / EN	
		Display Flip	Close / Open	
		Display Mode	Show / 60s	
	Reset	XY Reset	Cance / Run	
		Motor Reset	Cance / Run	
		All Reset	Cance / Run	
		Factory	Cance / Run	
	<b>Info</b>	Time	Current Time	xxxH
			Show Time	xxxH
Power Count			xxx	
Sensor		xxxxxx		
Software Version		Panel	Vx.xxx	
		Motor_XY	Vx.xxx	
		Motor	Vx.xxx	

<b>Manual</b>	Pan	0 - 255	
	PanFine	0 - 255	
	Tilt	0 - 255	
	TiltFine	0 - 255	
	⋮	⋮	
<b>Factory</b>	Password	0 - 255	
	Pan	0 - 255	
	Tilt	0 - 255	
	Iris	0 - 255	
	Color	0 - 255	
	RotGobo	0 - 255	
	Gobo Rot	0 - 255	
	Fix Gobo	0 - 255	
	Frost	0 - 255	
	Color7	0 - 255	
	Effect	0 - 255	
	Prism	0 - 255	
	PrismRot	0 - 255	
	Zoom	0 - 255	
	Focus	0 - 255	



## DMX channel's functions and values (18 DMX channels):

Channel	DMX Value	Display	Function
1	0–255	Pan	Pan 0-540°
2	0–255	Pan fine	Pan fine 16bit
3	0–255	Tilt	Tilt 0-240°
4	0–255	Tilt fine	Tilt fine 16bit
5	0–255	P/T Speed	from fast to slow
6	0–255	Dimming	From dark to bright
7	0–3	Strobe	Open
	4–99		Synchronous strobe
	100–149		Split strobe
	150–199		Strobe
	200–249		Random strobe
	250–255		Open
8	0–19	Color	Color 1 Linear
	20–39		Color 2 Linear
	.....		.....
	.....		.....
	160–179		Color 9 Linear
	180–199		Blank linear change
	200–226		Color flow clockwise, from fast to slow
	227–228		Stop
	229–255		Color flow counterclockwise, from slow to fast
9	0–4	Fixed gobo	blank
	5–54		10 fixed patterns, every 5 numbers correspond to a pattern

	55 – 154		10 fixed patterns jitter fast to slow, every 10 numbers correspond to a pattern
	155 – 204		Flowing in a clockwise pattern, from fast to slow
	205 – 205		Stop
	206 – 255		Color flow counterclockwise, from slow to fast
10	0 – 79	Rotary gobo	7 rotating patterns + blank, every 10 numbers correspond to a pattern
	80 – 159		7 rotating patterns + blank jitter fast to slow
	160 – 206		Flowing in a clockwise pattern, from fast to slow
	207 – 208		Stop
	209 – 255		Flowing in a counterclockwise pattern, from slow to fast
11	0 – 1277	Rotary gobo rotation fine	Gobo rotation 0-360 degrees
	128 – 191		The pattern rotates clockwise from fast to slow
	192 – 193		Stop
	194 – 255		The pattern turns counterclockwise from slow to fast
12	0-127	Prism insertion	Prism removed
	128-255		Prism insertion
13	0-127	Prism rotation	Prism rotates 90 degrees
	128-190		The pattern rotates clockwise from fast to slow
	191-192		Stop
	193-255		The pattern turns counterclockwise

			from slow to fast
14	0-127	Frost	white
	128-255		Frost
15	0-255	Zoom	0-100% linear Zoom
16	0-255	enlarge	0-100% linear Enlarge
17	0-50	Macro function	No
	51-100		System self-check
	101-150		Auto-run 1
	151-200		Auto-run 2
	201-255		Sound
18	0-250		No
	251-255		Reset (hold for 5 seconds to take effect)

## 4. Trouble shooting

Following are a few common problems 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 link 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 run 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.

## 5. Fixture Cleaning

The 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 fixture 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.**