

USER MANUAL

RotoMad



Read the user manual before turning on the product.

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Index

Summarize	1
Safety instruction.....	1
Outside size picture.....	2
Main function.....	3
DMX controller function	3
Menu instruction.....	4
Problem Analysis	8
XLR connection instruction	9
Technical specification.....	10

Summarize

➤ Summarize

Thank you for purchasing our LED moving head lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misuse.

➤ Products introduction

This led moving head light is designed in a fashion of hydrodynamic form. It uses high power 15w,RGBW 4-IN-1 Osram LED, the color mixing effect is very good, high brightness. Each LED can be independently dimmer, fading changes and so on. It uses power switch, performs low weight, low power consumption, stable performance and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. Pixel control. Endless Rotation, Pan: 720 °& endless rotating; Tilt:230 °. It has the functions of auto reset and correction. International standard DMX 512 signal is requested.

➤ Packing List

- LED moving head light 1PC
- Bracket 1PC
- DMX signal cable 1PC
- Power in cable 1PC
- The use manual 1PC
- Warranty Card 1PC

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 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.

Outside Size Picture





Main Function

- Use high quality Osram 4in1 LED lighting source, low power consumption, high brightness, stable performance and long life.
- linear dimming 0%-100%, Strobe、gradual change、jumping change
- DMX512 Controller, button + Digital Potentiometer input with LCD display
- Auto run/sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- Pan: 720 °& endless rotating; Tilt:230 °. It has the functions of auto reset and correction, fast and accurate.
- DMX channel: 25/27 channels optional. LED Pixel control

DMX Control Function

27Channel	25Channel	DMX Value	Function
1CH	1CH	0—255	General Dimming
2CH	2CH	0—255	Red 1
3CH	3CH	0—255	Green 1
4CH	4CH	0—255	Bule 1
5CH	5CH	0—255	White 1
6CH	6CH	0—255	Red 2
7CH	7CH	0—255	Green 2
8CH	8CH	0—255	Blue 2
9CH	9CH	0—255	White 2
10CH	10CH	0—255	Red 3
11CH	11CH	0—255	Green 3
12CH	12CH	0—255	Blue 3
13CH	13CH	0—255	White 3
14CH	14CH	0—255	Red 4
15CH	15CH	0—255	Green 4
16CH	16CH	0—255	Blue 4
17CH	17CH	0—255	White 4
18CH	18CH	0—10 11—255	Off strobe Strobe speed (1-20Hz)
		0—20 21—30 31—40 41—50 51—60	invalid R G B W

19CH	19CH	61—70 71—80 81—90 91—100 101—110 111—120 121—130 131—140 141—150 151—160 161—170 171—180 181—190 191—200 201—210 211—220 221—255	R+G R+B R+W G+B G+W B+W R+G+B R+G+W R+B+W G+B+W R+G+B+W AUTO1 AUTO2 AUTO3 AUTO4 AUTO5 save
20CH	20CH	0—255	auto speed (slow-fast)
21CH	21CH	0-255	Pan 0--540°
22CH	-	0-255	Pan fine 0—2.1 degree
23CH	22CH	0-255	Tilt 0—220°
24CH	-	0-255	Tilt fine 0—1.0 degree
25CH	23CH	0-255	Pan Tilt Speed (fast-slow)
26CH	24CH	0-5 6-130 131-255	Save X-axis Clockwise stepless rotating, lager value,fster speed X-axis Counterclockwise stepless rotating, lager value,slower speed
27CH	25CH	0-254 255	Save Reset (5 seconds later)

Menu Instruction

1: Press the *menu* or *enter*

2: Towards the *up* and *down* to choose function

ME NU	DMX ADDRESS	001-512	
	OPTION	PAN INVERTE	ON/ <u>OFF</u>
		TILT INVERTE	ON/ <u>OFF</u>



		CHANNEL MODE	25CH/27CH
	DISPLAY	DISPLAY INTENSITY	01-32
		DISPLAY SLEEP	PERMANENTLY ON/2 MINUTES/5 MINUTES/10 MINUTES
	MANUAL CONTROL	CH1: All RGBW	0-255
		CH2: Red1	0-255
		CH3: Green1	0-255
		CH4: Blue1	0-255
		CH5: White1	0-255
		CH6: Red2	0-255
		CH7: Green2	0-255
		CH8: Blue2	0-255
		CH9: White2	0-255
		CH10: Red3	0-255
		CH11: Green3	0-255
		CH12: Blue3	0-255
		CH13: White3	0-255
		CH14: Red4	0-255
		CH15: Green4	0-255
		CH16: Blue4	0-255
		CH17: White4	0-255
		CH18: Strobe	0-255
		CH19: Custom	0-255
		CH20: CustomSpeed	0-255
		CH21: Pan	0-255
		CH22: X fine	0-255
		CH23: Tilt	0-255
		CH24: Y fine	0-255
		CH25: XY speed	0-255
		CH26: SteplessCon	0-255
		CH27: Reset	000
	TEST OPERATION	SOUND CONTROL	RUNNING... *
		AUTO	RUNNING... *
	FACTORY DEFAULT	SETTING LOAD	YES/NO
	FIXTURE RESET	YES/NO	

Remark:

1. Display * is automatically send data to other fixtures, its synchronized operation for other fixtures when receiving data

2. Factory default setting is underlined

6、 1 DMX Address Set

MENU	DMX ADDRESS	001-512
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- ◆ 【DMX ADDRESS】 press 【ENTER】 to DMX address setting
- ◆ 【UP/DOWN】 to choosing 【1~512】
- ◆ 【ENTER】 to saving

6、 2 Option setting

MENU	OPTION	PAN INVERTE	ON/ <u>OFF</u>
		TILT INVERTE	ON/ <u>OFF</u>
		CHANNEL MODE	25CH/27CH

6、 2、 1 Pan Invert

- ◆ 【PAN INVERTE】 press 【ENTER】 to Pan Invert
- ◆ 【UP/DOWN】 to choosing 【ON】 or 【OFF】
- ◆ 【ENTER】 for saving

6、 2、 2 Tilt Invert

- ◆ 【TILT INVERTE】 press 【ENTER】 to Tilt Invert
- ◆ 【UP/DOWN】 to choosing 【ON】 or 【OFF】
- ◆ 【ENTER】 for saving

6、 2、 3 Channel mode

- ◆ 【CHANNEL MODE】 press 【ENTER】 to channel mode setting
- ◆ 【UP/DOWN】 to choosing 【25CH】 or 【27CH】
- ◆ 【ENTER】 for saving

6、 3 Display Intensity

MENU	DISPLAY	DISPLAY INTENSITY	01-32
		DISPLAY SLEEP	PERMANENTLY ON/ <u>2</u> MINUTES/5 MINUTES/10 MINUTES

6、 3、 1 Display intensity

- ◆ 【DISPLAY INTENSITY】 press 【ENTER】 to display intensity setting
- ◆ 【UP/DOWN】 to choosing 【1~32】 value
- ◆ 【ENTER】 for saving

6、 3、 2 Display Sleep

- ◆ **【DISPLAY SLEEP】** press **【ENTER】** to display intensity setting
- ◆ **【UP/DOWN】** to choosing **【PERMANENTLY ON】**, **【2 MINUTES】**, **【5 MINUTES】**, **【10 MINUTES】**
- ◆ **【ENTER】** for saving

6、 4 Manual control

MENU	MANUAL CONTROL	CH1: All RGBW	0-255
		CH2: Red1	0-255
		CH3: Green1	0-255
		CH4: Blue1	0-255
		CH5: White1	0-255
		CH6: Red2	0-255
		CH7: Green2	0-255
		CH8: Blue2	0-255
		CH9: White2	0-255
		CH10: Red3	0-255
		CH11: Green3	0-255
		CH12: Blue3	0-255
		CH13: White3	0-255
		CH14: Red4	0-255
		CH15: Green4	0-255
		CH16: Blue4	0-255
		CH17: White4	0-255
		CH18: Strobe	0-255
		CH19: Custom	0-255
		CH20: CustomSpeed	0-255
		CH21: Pan	0-255
		CH22: X fine	0-255
		CH23: Tilt	0-255
		CH24: Y fine	0-255
		CH25: XY speed	0-255
		CH26: SteplessCon	0-250
		CH27: Reset	000

- ◆ **【MANUAL CONTROL】** press **【ENTER】** to **【CH1】 ~ 【CH27】**
- ◆ **【UP/DOWN】** to choosing **【0~255】** value
- ◆ **【ENTER】** for saving

6、 5 Test Operation

MENU	TEST OPERATION	SOUND CONTROL	RUNNING...	*
		AUTO	RUNNING...	*

- ◆ **【SOUND CONTROL】** press **【ENTER】** to sound mode

Remark:

Sound sensitivity by adjusting the R3 on display panel

6、 5、 2 Auto mode

- ◆ **【AUTO】** press **【ENTER】** to auto mode

6、 6 Factory default

MENU	FACTORY DEFAULT	SETTING LOAD	YES/NO
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Set parameters to restore default settings

- ◆ **【SETTING LOAD】** press **【ENTER】**
- ◆ **【UP/DOWN】** to choosing **【YES】**
- ◆ **【ENTER】** for saving

Remark:

After press **【ENTER】** , auto reset one time on pan/tilt

6、 7 Fixture reset

MENU	FIXTURE RESET	YES/NO	
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- ◆ **【FIXTURE RESET】** press **【ENTER】**
- ◆ **【UP/DOWN】** to choosing **【YES】**
- ◆ **【ENTER】** for saving

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 it	◆ 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)
	◆ 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

Display not bright	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	◆ 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.
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 !

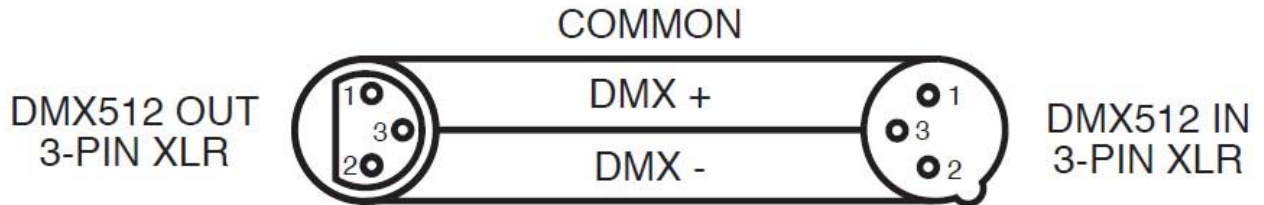
XLR cable connecting

➤ 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 120Ω $1/4W$) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➤ 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

Technical Specification

- Input voltage: AC 100V-264V/47-63HZ
- Consume: 140W
- Lamp Type: LED (15W)
- Lamp Spec: Osram RGBW 4-in-1 LED(7PCS)
- Life Span: 50000-100000 hours



- Constant current drive: 1000mA
- Control Signal: DMX512/Pattern Auto run
- Control mode: stand alone / sound activated master and slaver
- Channel: 25,27 CH
- Color effect: R,G,B,W color mixing、 pixel control
- Beam Angle: 8 °
- Pan: 720 °& endless rotating; Tilt:230 °; Reset
- Pan fine 2.1 degrees, Tilt fine 1.0 degree
- Function Effect: dimmer, strobe, eotic, fade
- Protection rate: IP20
- Anti-electricity intension: 1.5KV
- Insulation Resistance: > 2 MΩ
- Size: 220*200*275mm
- Net Weight: 4.1Kg