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# 9PCS 40W LED Matrix 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 Ta: 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 and has no one pass by or under it.

## **2、 Technical Specifications**

### **Light Sources:**

3x3x40w OSRAM RGBW 4 IN 1 Leds

Voltage: AC100-240V, 50/60HZ

Power: 360W

Single LED power: 40W

### **Control:**

DMX mode: DMX/RDM/Master-slave

DMX channel: 8/17/21/43/49 CH

Software upgrade: upgrade software via DMX connection

## **Pan/Tilt:**

X axis/Y axis: 540°/ 270°

Pan/Tilt Resolution: 16 bit

Auto correction: Pan & Tilt auto correction

## **Construction:**

Display : LCD display

Data In/Out: 3-pin & 5-pin XLR

Power In/Out: PowerCon in/out

IP grade: IP20

## **Features:**

Zoom angle: 8°~50°

Outstanding color macro effect

Dimmer: 0~100% smooth dimming

Variable strobe effects

## **3、Display:**

	<b>Display</b>		<b>Instruction</b>
1	DMX	Addr setting 001	Press up&down to adjust IP address. Press Enter to save
2	Manual	Pan	Press Up&down to adjust Pan position, Press Enter to save
		Pan Fine	Press Up&down to fine adjust Pan position, Press Enter to save
		Tilt	Press Up&down to adjust Tilt position, Press Enter to save
		Tilt Fine	Press Up&down to fine adjust Tilt position, Press Enter to sav
		Motor Speed	(0-255) Set the motor speed, 0 fastest 255 slowest. Press Enter to save.
		Focus	Press Up&down to adjust focus, Press Enter to save
		Dimmer	(0-255) Total dimming

		Strobe	(0-255) Strobe slow to fast
		R-DIM	P Press Up&down to adjust Red Brightness, Press Enter to save
		G-DIM	P Press Up&down to adjust Green Brightness, Press Enter to save
		B-DIM	P Press Up&down to adjust Blue Brightness, Press Enter to save
		W-DIM	P Press Up&down to adjust White Brightness, Press Enter to save
		CCT-DIM	(0-255) Color temperature adjustment
		Color Select	(0-255). Color mixing
		Macro	(0-20) no function; when the Value is bigger than 20, the corresponding built-in program.
		Marco Speed	(0-25) adjust macro speed, 0 fastest, 255 slowest
		Reset	(0-244) no function; (245-255) stay for 5 seconds, the system resets
3	Test	PROG	Press Up&down to select Program, Press Enter to save
		PROG-SPEED	Press Up&down to select program speed, Press Enter to save
		TEST Auto/Audio	Press Up&down to enter sound mode/auto mode, Press Enter to save
4	Option	DmxChs	Press Up&down to choose DMX mode, Press Enter to save
		Pan –Mirror	Press Up&down to choose Pan Mirror, Press Enter to save
		Tilt –Mirror	Press Up&down to choose Tilt Mirror, Press Enter to save
		LCD inverse	Select display up-side-down
		Back light	Set back light on /off
5	EN/CHS	English	Select Language
6	Info		System version information

## 4、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.

**1、Clean with soft cloth using normal glass cleaning fluid.**

**2、Always dry the parts carefully.**

**3、 Clean the external optics at least every 20 days. Clean the internal**

**4、 optics at least every 30/60 days.**

## **5、 Trouble Shooting**

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

- **The unit does not work, no light and the fan does not work**

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

- **Not responding to DMX controller**

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

- **One of the channels is not working well**

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

## 6、DMX CHANNEL

### 8 DMX CH

Channel	Function	Value
1	Pan	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
2	Tilt	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
3	Zoom	Adjust the focus from 0-255.
4	Dimmer	R、 G、 B、 W dimmer , from dark to bright
5	Red Dimmer	Red dimmer , from dark to bright
6	Green Dimmer	Green dimmer , from dark to bright
7	Blue Dimmer	Blue dimmer , from dark to bright
8	White Dimmer	White dimmer , from dark to bright

### 17 DMX CH

Channel	Function	Value
1	Pan	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
2	Pan finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
3	Tilt	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
4	Tilt finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
5	Pan&Tilt motor speed	0-255 upward speed slows down, 0 fastest speed.
6	Zoom	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
7	Overall dimmer	R、 G、 B、 W dimmer, from dark to bright
8	Overall Strobe	Strobe from slow to fast
9	Red dimmer	Red Dimmer, from dark to bright
10	Green dimmer	Green Dimmer, from dark to bright
11	Blue dimmer	Blue Dimmer, from dark to bright
12	White dimmer	White Dimmer, from dark to bright
13	Color Temperature	0-255 color temperature adjustment, from low to high
14	Choose color	0-255 color mixing
15	Built-in program	(0-20) no function; when the DMX is bigger than 20, the corresponding built-in program.
16	Built-in program speed	0-255 upward speed slows down, 0 fastest speed.
17	Reset	The DMX value is unchanged for 5 seconds to execute the program; (0-244) has no function; (245-255) is reset.

## 21 DMX CH

Channel	Function	Value
1	Pan	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
2	Pan finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
3	Tilt	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
4	Tilt finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
5	Pan&Tilt motor speed	0-255 upward speed slows down, 0 fastest speed.
6	Zoom	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
7	Overall dimmer	R、 G、 B、 W dimmer, from dark to bright
8	Overall Strobe	R、 G、 B、 W dimmer, from slow to fast
9	Face Red dimmer	Face red dimmer, from dark to bright
10	Face Green dimmer	Face green dimmer, from dark to bright
11	Face Blue dimmer	Face blue dimmer, from dark to bright
12	Face White dimmer	Face white dimmer, from dark to bright
13	Color Temperature	0-255 color temperature adjustment, from low to high
14	Choose color	0-255 color mixing
15	Built-in program	(0-20) no function; when the DMX is bigger than 20, the corresponding built-in program.
16	Built-in program speed	0-255 upward speed slows down, 0 fastest speed.
17	Background Red dimmer	Background red dimmer, from dark to bright
18	Background Green dimmer	Background green dimmer, from dark to bright
19	Background Blue dimmer	Background blue dimmer, from dark to bright
20	Background White dimmer	Background white dimmer, from dark to bright
21	Reset	The DMX value is unchanged for 10 seconds to execute the program; (0-244) has no function; (245-255) is reset.

## 43 DMX CH

Channel	Function	Value
1	Pan	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
2	Pan Finetune	Adjust forward rotation at 0-255 and reverse rotation at



		downward adjustment.
3	Tilt	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
4	Tilt Finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
5	Zoom	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
6	Pan&Tilt Speed	0-255 upward speed slows down, 0 fastest speed.
7	Overall dimmer	R、 G、 B、 W dimmer, from dark to bright
8	1 <sup>st</sup> Red dimmer	1 <sup>st</sup> red dimmer, from dark to bright
9	1 <sup>st</sup> Green dimmer	1 <sup>st</sup> green dimmer, from dark to bright
10	1 <sup>st</sup> Blue dimmer	1 <sup>st</sup> blue dimmer, from dark to bright
11	1 <sup>st</sup> white dimmer	1 <sup>st</sup> white dimmer, from dark to bright
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40	9 <sup>th</sup> Red Dimmer	9 <sup>th</sup> Red dimmer, from dark to bright
41	9 <sup>th</sup> Green Dimmer	9 <sup>th</sup> green dimmer, from dark to bright
42	9 <sup>th</sup> Blue Dimmer	9 <sup>th</sup> blue dimmer, from dark to bright
43	9 <sup>th</sup> White Dimmer	9 <sup>th</sup> white dimmer, from dark to bright

## 49 DMX CH

Channel	Function	Value
1	Pan	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
2	Pan Finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
3	Tilt	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
4	Tilt Finetune	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
5	Zoom	Adjust forward rotation at 0-255 and reverse rotation at downward adjustment.
6	Pan&Tilt Speed	0-255 upward speed slows down, 0 fastest speed.
7	Overall dimmer	R、 G、 B、 W dimmer, from dark to bright
8	Overall Strobe	R、 G、 B、 W strobe, from slow to fast
9	1 <sup>st</sup> Red dimmer	1 <sup>st</sup> red dimmer, from dark to bright
10	1 <sup>st</sup> Green dimmer	1 <sup>st</sup> green dimmer, from dark to bright
11	1 <sup>st</sup> Blue dimmer	1 <sup>st</sup> blue dimmer, from dark to bright
12	1 <sup>st</sup> white dimmer	1 <sup>st</sup> white dimmer, from dark to bright
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41	9 <sup>th</sup> Red Dimmer	12 <sup>th</sup> Red dimmer, from dark to bright
42	9 <sup>th</sup> Green Dimmer	12 <sup>th</sup> green dimmer, from dark to bright
43	9 <sup>th</sup> Blue Dimmer	12 <sup>th</sup> blue dimmer, from dark to bright
44	9 <sup>th</sup> White Dimmer	12 <sup>th</sup> white dimmer, from dark to bright
45	Color Temperature	0-255 color temperature adjustment, from low to high
46	Color selection	0-255 color combination

47	Built-in program	(0-20) no function; when the DMX is bigger than 20, the corresponding built-in program.
48	Built-in program speed	0-255 speed up slower, 0 fastest speed.
49	Reset	The DMX value is unchanged for 10 seconds to execute the program; (0-244) has no function; (245-255) is reset.

After power-on, the console power is turned on. When the DMX512 console signal is not received, the Dmx indicator is off; when the DMX512 console signal is received, the Dmx indicator is on, and the controlled station signal is controlled.

In the address code 001 state, after multi-machine connection, if there is no console, the master-slave connection function can be realized, one of the devices is operated, and the rest of the devices in the address 001 state follow the host synchronization running program, when the master-slave is online The DMX512 signal must be turned off.