

# LEDMH100

# **USER MANUAL**



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# INTRODUCTION

Thanks for your purchase of our product, mini led moving-head fixture. It can works under auto mode and sound -active mode with 16 built-in programs. The product has a long lifespan and low power consumption. It is exquisite and applicable for all kinds of entertaining occasions. Before you begin, please read instructions carefully. If you meet with any problem, please contact with your distributor nearby.

## MAIN FEATURES

DMX-512 control, 11 channels

DMX, AUTO, SOUND-ACTIVE mode

■RGB control with 255 grades

■RGB total dimmer is 0~100%

Shutter speed is 10flashes/sec ~10secs / flash

■36X1W LED

■PAN scan angle 0~540<sup>0</sup>

■TILT scan angle 0~230<sup>0</sup>

### UNPACKING

★LEDMH100 MINI LED FIXTURE

★USER MANUAL

# SAFETY WARNING

# For your convenient and accurate operation, please read following information carefully.

•Suitable for indoor use only.

•Put it in a dry, well -ventilated place in case of short cut caused by erosion of moisture and rain.

•Do not install it nearby hot sources in case that rising temperature of lamp damages

itself.

- •Do not barrier vent in order to ventilate well and dissipate in time.
- Connect the fixture with power source, which has a ground line, and voltage of power source should accord with rating voltage.
- ◆If fuse was damaged, change the same type.
- •You can only choose accessories the manufacturer provides when need repairing.
- Ambient temperature of the lamp should not exceed 40°C
- If any problem, contact with professional technicians working in our after-sales service department.

# PANEL REVIEW



Press FUN button: Switch to function menu or return to previous menu

Press UP/DOWN: Adjust current activated field. If the four point twinkle, indicating value

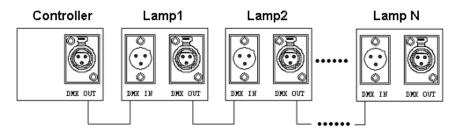
has been changed.

Press ENTER: Enter into sub-menu or confirm the current value.

# INSTALLATION AND SETTING

#### **1. MULTI-FIXTURES CONNECTION**

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors.



The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive



(S+).

### 2. LAMP BODY INSTALLATION

Notes: do not install it nearby the curtain or flammable materials. Only for indoor use.

# **OPERATION**

### **1.SET DIPSWITCHES**

■Each fixture occupies 11 DMX channels.

DMX 512 signal can control multi-fixtures together, however you must set DMX address of

each lamp first. Different DMX address will lead to different movements.

■You can set DMX address from 1~501 on the multi-function display panel.

Switch on power supply and after finishing resetting, the panel will show 001,that is to say

DMX address is 1 and the first lamp has been controlled by 1~11channels.In turn the second fixture has been controlled by 12~22 channels. (When panel shows 001,press UP button until it shows 012.Then just press ENTER button). In the same way, the third fixture has been controlled by 23~33 channels and the panel shows023.

Through this method, you can control multi-fixtures to perform different movements.

# 2. DMX CHANNEL SUMMARY

0		0 - 24 25 RGB			75 - 99 1 AUTO PRO 3	
8.5	H 1	125 - 149 1	50 - 174	175 - 199		225 - 255
F	H2 Red 1 0~24	0 🔫 Dark 🤇				► 255 Deep red
Ç	H3 reen 1 0~24	0		_		255 Deep gree
E	H4 Blue 1 0~24	0 - Dark				255 Ceep blue
	CH1 0~24 Strobe speed	0	*			255 <b>※</b>
Shutter	CH1 25~255 Auto speed	0 🔫 The Fastest				► 255 The slowest
Di	H6	0 -				- 255
С	1 0~24 :H7 n Cors	0 0°		127		255 540 <sup>°</sup>
	:H8 : Cors					255 230°
	H9 <sup>peed</sup>	0		PAN/TILT Speed		- 255 The slowest
	H10 Fine	0 <del>-</del>		PAN Adjustment		- 255 2.4°
	H11 Fine	0 <del>-</del>		TILT Adjustment		- 255 2.4°

### **3. CHANNEL FUNTIONS**

DISPLAY		FUNCTION	
VALUE	001-501	DMX address (16BT is on, the max value is 501.)	
MODE	M-DM	DMX mode	
	M-AU	AUTO mode	
		Notes: Only one lamp can be set as Master and the left are	
		Slaves (Slaves set to DMX mode with DMX address "001"). Do	
		not connect the Slaves lamp with controller.	
	M-SO	SOUND mode	
		Notes: Only one lamp can be set as Master and the left are	
		Slaves (Slaves set to DMX mode with DMX address "001"). Do	
		not connect the Slaves lamp with controller.	
PRCO	PR1~8	8 built-in programs	

	Pr1-4 means skip			
	Pr5-8 means fade			
SP01~15	Auto speed SP01: 0.1sec/step, SP15: 10secs/step			
STND	Run clockwise as DMX value increases			
REV	Run anticlockwise as DMX value decreases			
STND	Run clockwise as DMX data increase			
REV	Run anticlockwise as DMX data decreases			
STND	CH7: PAN, CH8: TILT, CH10: PAN FINE, CH11: TILT FINE.			
REV	CH7: PAN, CH8: TILT, CH10: PAN FINE, CH11: TILT FINE.			
ALL	Check all channels with motors			
PAN	Check pan channels			
TITL	Check tilt channels			
RED	Check red channels			
GREEN Check green channels				
BLUE	Check blue channels			
STND	Display bites normally			
REV	Display bytes upside down			
REST/ON	Reset			
	(Press ENTER button to enter into REST menu and the screen			
	reads flashing "REST". Then press UP/DOWN button and the			
	screen reads flashing "ON". If to press ENTER again, the light			
	engine resets again)			
ON	PAN, TILT is 16 bit, CH10: PAN FINE, CH11: TILT FINE.			
OFF	PAN, TILT is 8 bit. CH10, CH11 does not exist.			
	STND   REV   STND   REV   STND   REV   ALL   PAN   TITL   RED   GREEN   BLUE   STND   REV   REST/ON   ON			

# 4. ABOUT EACH CHANNEL

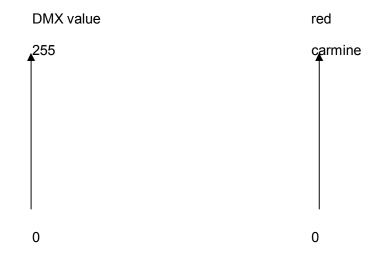
## Channel 1:DMX MODE

Ch	DMX	Function	CH2	CH3	CH4	CH5	CH6
			Red	Green	Blue	Strobe	Dimme
	0~24	RGB	0~255	0~255	0~255	Speed	r
						0~255	0~255
	25~49	Built-in program					
CH1	201949	1					No
	50~74	Built-in program	No	No	No	Auto	functio
		2	function	function	function	speed	n
	75~99	Built-in program					11
	10-99	3					

100~124	Built-in program
	4
125~149	Built-in program
125-145	5
150.174	Built-in program
150~174	6
175 100	Built-in program
175~199	7
	Built-in program
200~224	8
005 055	Sound-active
225~255	program

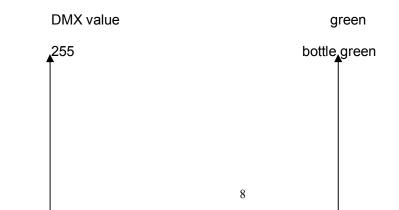
### Channel 2: RED

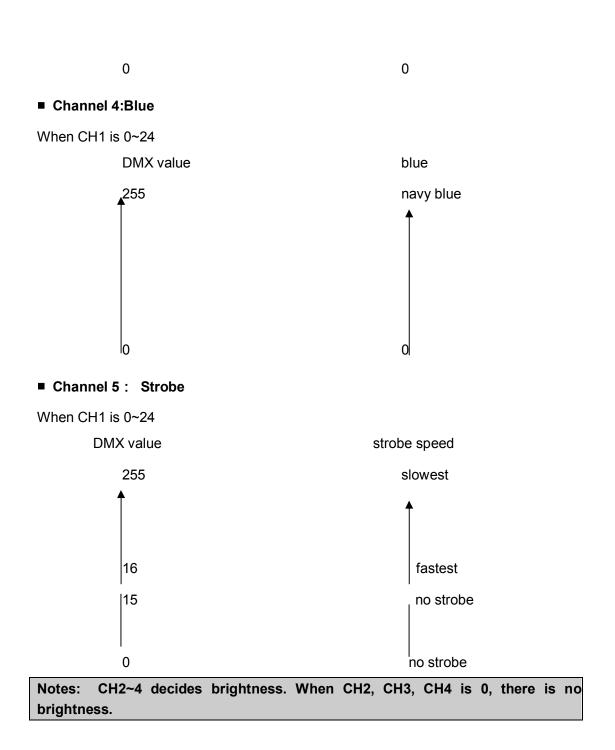
When CH1 is 0~24



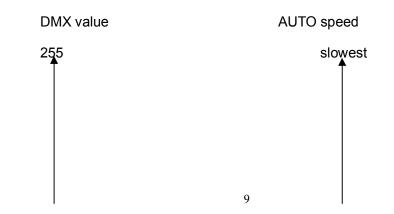
Channel 3 : GREEN

When CH1 is 0~24





### When CH1 is 25~224:



0

fastest

### Channel 6 : RGB Dimming

When CH1is 0~24:



■ Channel 7: PAN ( 540° )

NO.	DMX value	Effect
1	0	Leftmost
2	127	Medium
3	255	Rightmost

■ Channel 8: TILT ( 230° )

NO.	DMX value	Effect		
1	0	Bottommost		
2	127	Medium		
3	255	Topmost		

- Channel 9 : PAN or TILT SPEED
- Channel 10 : PAN FINE (2.4°)
- Channel 11:TILT FINE (2.4°)

Notes: When 16 BT is on, CH10, CH11 exists; otherwise they do not exist.

# MAINTENANCE

# **1.TROUBLESHOOTING**

Problem	Probable cause(s)	Suggested remedy	
	No power source	Check if power source is on or cord works well.	
Fixtures does not work	Fuse burnt	Cut off power source and change the same type fuse. If fuse was burnt on end, it may be the problem of connection; Find qualified professors to repair.	
	False or incomplete data connection	Check, repair or change the data line. Ensure connection is well and the first lamp's single input is connected with the controller output.	
	False address setting	Check DMX address.	
Reset normally, but console abnormally or no response	Problem of signal connector of some fixtures	Pull out the signal output and input of one fixture. Then connect both directly. If it works well, this fixture is proved to be the failed one. Handle the rest fixtures alike to check which fixture has problems. If any problem, please connect the technician.	
	Signal output does not match with the pin (pins2 and pins3 has a wrong sequence)	Toggle the PHASE button on the controller to reverse the polarity.	

### 2. CLEANING

Though increasing reliability by designing well and we never stop to improve quality to lengthen lamp's lifespan. It is still indispensable to maintain it well by certain time in order to ensure best performance

## First , clean fan and vent.

Favorable heat-dissipation and ventilation is vital to lamp's normal work. So clean the fan and vent during a certain time to guarantee smooth of wind path. Otherwise dust will barrier vent, which will affect the performance because of over heat after working for some time.

### Second, lens cleaning and maintenance

To ensure the best effect of lamp, please clean every lean or reflective setting. Use the soft cotton with some lotion to clean it, but do not damage lens.

### Third, check line during a certain time.

Check connecting line, wiring and ground line to ensure safety of using lamp during a certain time.

### Forth, mechanical transmission part maintenance.

Check mechanical transmission part if it has any loose part during a certain time, such as a strap. Abrasion of mechanical transmission part will affect stability of lamp work. If strap is loose, you should change it if needed.

# **TECHNICAL SPECIFICATION**

Туре	LEDMH100 MINI LED MOVING-HEAD
LED Number& Voltage	36X1W LED
Power	160W
Voltage	220V
Electrical current	0.7 2 6 A
Total lumens	528.15 1m
Max light intensity	1089 c d
Lamp efficiency	3.8 lm/w
Optic angle	23 <sup>0</sup>
Dimension	L250XW220XH376 (MM)
Weight	7KG

# APPENDIX

Color	Total output (Lumens)	Efficiency	Color index
Red	465	5	21
Green	528	4	-12
Blue	788	5	-50