



### User Manual

*Please read the instructions carefully before use.*

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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 for future reference.

## 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 and problem owing to ignore the manual.

## 1. SAFETY INSTRUCTION

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. Its important to ground the yellow/green conductor to earth in order to avoid electric shock.

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  $t_a$ : 40c. Do not operate it where the temperature is higher than this unit surface temperature may reach up to 85c. 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 units 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 SPECIFICATION

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

Power Consumption: 800W

Light Sources: 19pcs Multi-chip 4in1 RGBW  
40 Watt LED sources

Zoom Angle: 4-60°

Moving Angle: Pan 540° Tilt 270°

### Control

DMX Channel: 22CH/ 22CH+RGB/ 22CH+  
RGBW/ 36CH/ 36CH+RGB/ 36CH+RGBW

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

### Construction

Display: LCD Display

DMX In/Out socket: 3-pin XLR in/out

Power Socket: Powercon in/out

Protection Rating: IP20

### Size

Light Size: 365\*463\*463MM

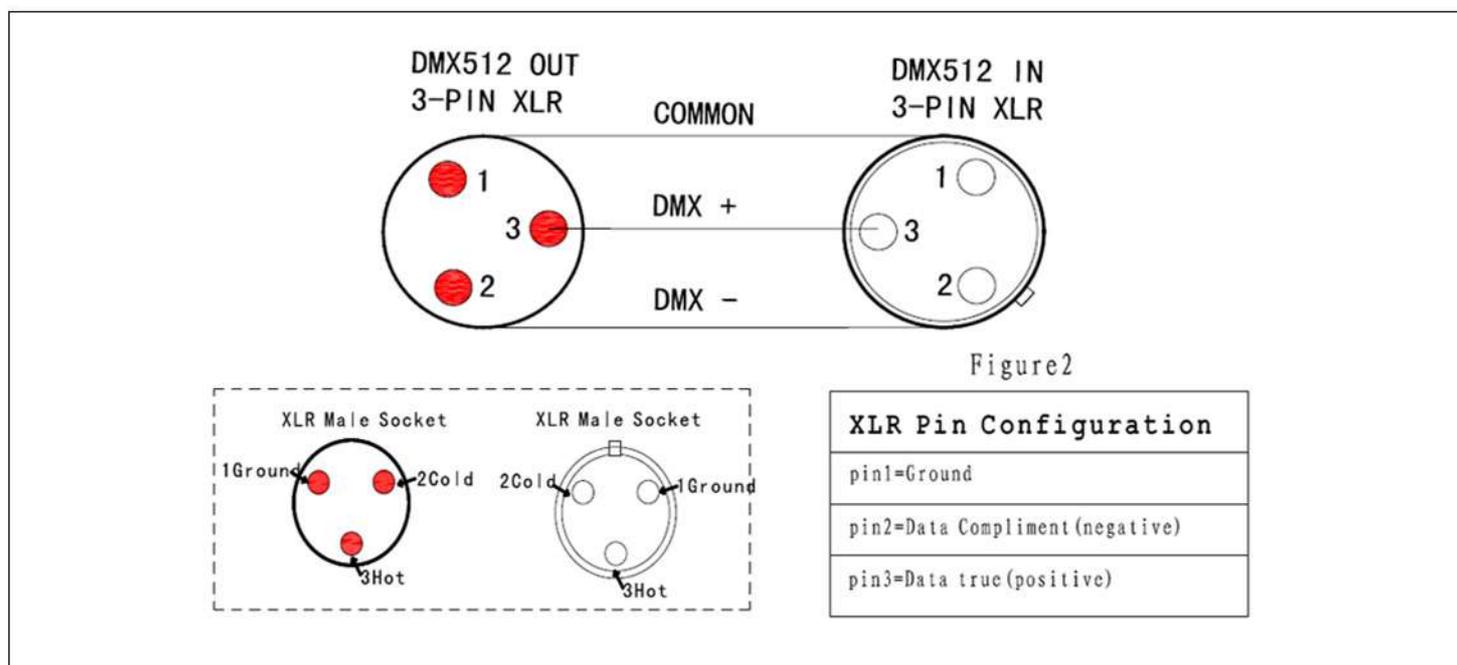
### Weight

Net Weight: 20Kgs



### 3. HOW TO CONTROL THE DEVICE

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 (+)



#### 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
3. Press **"ENTER"** keys to save and Exit, Press the **"MENU"** Keys does not save and Exit
4. Functions setting via LED display panel as below:

Primary menu	Secondary menu	Three-level menu/parameters
address	001 - 512	(Every time the number of channels is increased, it is reduced to normal)
system setup	work pattern	Artnet/DMX/ voice control/self-propelled
	Channel mode	22CH/22CH+RGB/22CH+RGBW/ 25CH/25CH+RGBW/ 36CH/36CH+RGB/36CH+RGBW
	X axis default position	0-255
	Y-axis default position	0-255
	X-axis inversion	On/off
	Y-axis inversion	On/off
	XY axis exchange	On/off
	XY axis fast mode	On/off
	Signal holding	On/off
	Optical coupler error correction	On/off
	Hall error correction	On/off
	Synchronous update	On/off
	Backlight time	15 seconds /30 seconds /60 seconds/always on
	Restore factory settings	Confirm/cancel
Test mode	Current channel mode channel	0-255
System calibration	Enter password	Lamp calibration

Advanced mode	network	
	data package	
	Lamp holder reset	
	XY reset	
	Reset all	
system information	Reset error message	Display reset error message
	DMX data monitoring	Receive the channel value of the console
	Sensor information	Hall information
		X-ray optocoupler information
		Y optocoupler information
	Hardware version	Display hardware version
	software release	Display software version
Cumulative use time	Machine service time	

### Automatic screen rotation function

The system can automatically rotate the screen according to the direction of gravity without manual rotation. You can also turn off the automatic rotation function.

### Manual test

This interface is used to control the current lamps.

Press "OK" key to enter the editing state. Press the "Up" and "Down" keys to change the channel value. Press "OK" again to save the modified values and exit editing; press "Exit" to exit editing without saving the modified values.

### System calibration

Enter the password "0000" and press "OK" to enter.

Option	Explain
Motor calibration	After entering the sub-interface, you can adjust the travel of X-axis, Y-axis, focusing and rotating motor. The adjustment range is 0~255, and 127 means no adjustment.
Power calibration	After entering the sub-interface, the power of 19 lamp beads can be adjusted, and the adjustment range is 0~255, with 255 indicating the maximum power.
White balance calibration	After entering the sub-interface, the white balance of red, green, blue and white of the total LED of the lamp and LED1-19 can be adjusted, with 255 indicating the maximum white balance.
Other calibration	Voice sensitivity calibration and password modification.

### Advanced mode

Option	Explain
network	Can change IP/MS
data package	Net(0-127)/Sub _Uni can be changed.
Lamp holder reset	Effects other than XY motor reset
XY reset	XY axis reset
Reset all	Lamp reset

option	explain
Reset information	If the red ERR indicator lights up, it means that the lamps are running incorrectly, and the details can be viewed in the sub-interface.
DMX data monitoring	From this, the sub-interface is entered, and the channel value is displayed numerically for viewing.
Sensor information	Real-time monitoring the status of optical coupler, Hall and other sensors on the lamp
Hardware version number	Hardware information of lamps
Software version number	Lamp software version

## 4. DMX CHANNEL TABLE

### 22CH

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset

20	Zoom
21	Zoom Rotation
22	Frequency (if standard + frequency mode is selected)

**36CH**

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine

18	Function
19	Reset
20	Zoom
21	Zoom Rotation
22	Shape Selection
23	Shape Speed
24	Shape Fade
25	Shape R
26	Shape G
27	Shape B
28	Shape W
29	Shape Dimmer
30	Background Dimmer
31	Shape Transition
32	Shape Offset
33	Foreground Strobe
34	Background Strobe
35	Background Select
36	Frequency (if shape + frequency mode is selected)

**RGB**

CHANNEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
4	Red LED 2
5	Green LED 2
6	Blue LED 2
7	Red LED 3
8	Green LED 3
9	Blue LED 3
10	Red LED 4
11	Green LED 4
12	Blue LED 4
13	Red LED 5
14	Green LED 5
15	Blue LED 5
16	Red LED 6
17	Green LED 6
18	Blue LED 6
19	Red LED 7
20	Green LED 7
21	Blue LED 7
22	Red LED 8
23	Green LED 8

24	Blue LED 8
25	Red LED 9
26	Green LED 9
27	Blue LED 9
28	Red LED 10
29	Green LED 10
30	Blue LED 10
31	Red LED 11
32	Green LED 11
33	Blue LED 11
34	Red LED 12
35	Green LED 12
36	Blue LED 12
37	Red LED 13
38	Green LED 13
39	Blue LED 13
40	Red LED 14
41	Green LED 14
42	Blue LED 14
43	Red LED 15
44	Green LED 15
45	Blue LED 15
46	Red LED 16
47	Green LED 16
48	Blue LED 16

49	Red LED 17
50	Green LED 17
51	Blue LED 17
52	Red LED 18
53	Green LED 18
54	Blue LED 18
55	Red LED 19
56	Green LED 19
57	Blue LED 19

**RGBW**

CHANNEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
4	White LED 1
5	Red LED 2
6	Green LED 2
7	Blue LED 2
8	White LED 2
9	Red LED 3
10	Green LED 3
11	Blue LED 3
12	White LED 3

13	Red LED 4
14	Green LED 4
15	Blue LED 4
16	White LED 4
17	Red LED 5
18	Green LED 5
19	Blue LED 5
20	White LED 5
21	Red LED 6
22	Green LED 6
23	Blue LED 6
24	White LED 6
25	Red LED 7
26	Green LED 7
27	Blue LED 7
28	White LED 7
29	Red LED 8
30	Green LED 8
31	Blue LED 8
32	White LED 8
33	Red LED 9
34	Green LED 9
35	Blue LED 9
36	White LED 9
37	Red LED 10

38	Green LED 10
39	Blue LED 10
40	White LED 10
41	Red LED 11
42	Green LED 11
43	Blue LED 11
44	White LED 11
45	Red LED 12
46	Green LED 12
47	Blue LED 12
48	White LED 12
49	Red LED 13
50	Green LED 13
51	Blue LED 13
52	White LED 13
53	Red LED 14
54	Green LED 14
55	Blue LED 14
56	White LED 14
57	Red LED 15
58	Green LED 15
59	Blue LED 15
60	White LED 15
61	Red LED 16
62	Green LED 16

63	Blue LED 16
64	White LED 16
65	Red LED 17
66	Green LED 17
67	Blue LED 17
68	White LED 17
69	Red LED 18
70	Green LED 18
71	Blue LED 18
72	White LED 18
73	Red LED 19
74	Green LED 19
75	Blue LED 19
76	White LED 19

## 5. 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.

## 6. 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.**

