

毅丰  
2015.05.07  
受控正本

### Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

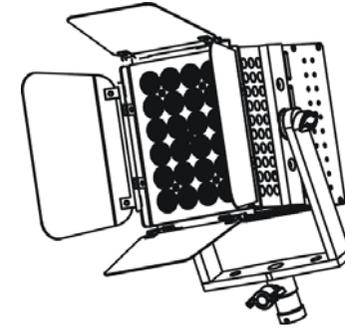
EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;  
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

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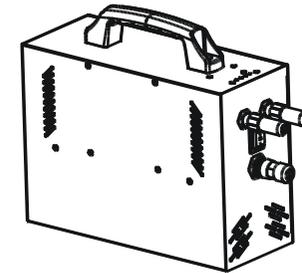
### Harmonized Standard

EN60598-2-17:1989 + A2:1991; EN60598-1:2008+ A11: 2009  
EN 62471:2008; EN 62493: 2010  
Safety of household and similar electrical appliances  
Part 1: General requirements

**Innovation, Quality, Performance**



**LP-324ADB CW/WW/VW**



**BAT-LP324**

## User Manual

Please read the instructions carefully before use



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.  
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)  
5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

## **5. Troubleshooting**

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.

### **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 external lens 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 fixture's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the optional lens at least every 30 days.

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## 1. Safety Instructions



### WARNING

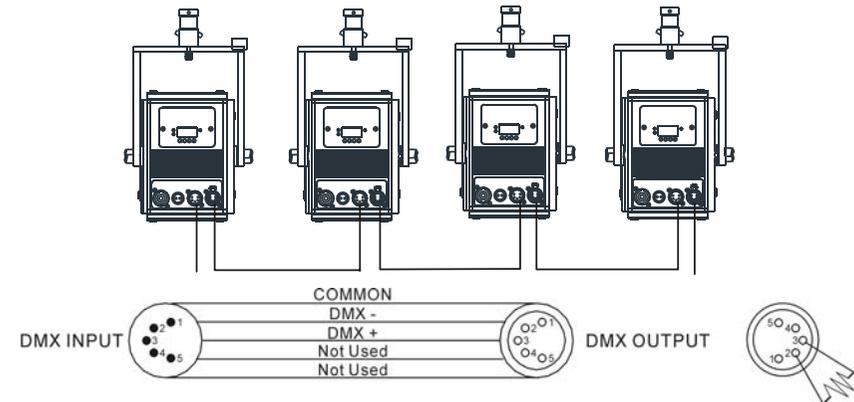
Please read the instructions carefully which includes important information about the installation, operation and maintenance.

- 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.
- **Caution:**
- All fixtures are intact from the manufacturer, please operate follow up the user manual, artificial fault are not under guarantee repair.
- Unpack and check carefully there is no transportation damage before using the unit.
- The unit is for indoor use only. Use only in a dry location.
- Do install and operate by operator.
- Use safety chain when fixes the unit.
- 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, otherwise the unit will be overheated.
- 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.
- Maximum ambient temperature TA : 40°C. Don't operate it where the temperature is higher than this.
- Don't connect the device to any dimmer pack.
- First run, there will be smoke or smells, and all disappearing a few minutes later.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Look over power wires carefully, replace immediately if there is any damage.
- Unit surface temperature may reach up to 60°C. Don't touch the housing bare-hand during its operation.
- Never run on for a long time lest shortening lifespan.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happen, cut off the mains power immediately.
- Do not operate in dirty and dusty environment, also cleaning fixtures regularly.
- Do not allow children to operate the fixture.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together arrounding other cables.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

LP-324ADB VW:

DMX 512 Configuration			
Mode 1		Mode 2	
Ch1	Ch2	Ch1	Ch2
Cool White	Amber	Color Mixing	Dimmer

## 4.4 DMX512 Connections



### ATTENTION

Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal (Resistance 120 ohm 1/4W between pin2 (DMX-) and pin3 (DMX+) of the last fixture).

Press the **MENU** button up to when the **Addr** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button until the display stops blinking. To go back to the functions without any change press the **MENU** button again.

For LP-324ADB CW/WW ,Please refer to the following diagram to address your DMX512 channel for the first 4 units:

1 channel: 

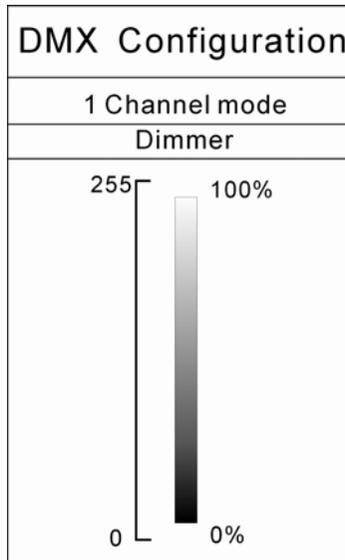
For LP-324ADB VW ,Please refer to the following diagram to address your DMX512 channel for the first 4 units:

2 Channel mode: 

2 Channel mode: 

#### 4. 3 DMX 512 Configuration

LP-324ADB CW/WW:



- Do not open the unit as there are no user serviceable parts inside. 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.
- Disconnect the mains power if the fixture is not used for a long time.
- Do use original packing materials once transport it again.
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Do not look directly at the LED light beam while the fixture is on.

#### 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. Always ensure 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 source:**  
LP-324ADB CW: 24 CW  
LP-324ADB WW: 24 WW  
LP-324ADB VW: 12 CW +12 WW
- **Voltage:** AC 110-240V 50/60Hz  
DC 24V

- **Power consumption:** 70W

- **Color Temperature:**  
CW: 5300-5900K , WW: 2900-3200K , VW: 2900-5600K

- **Beam Angle:** 10°, 25°, 40°, 60°

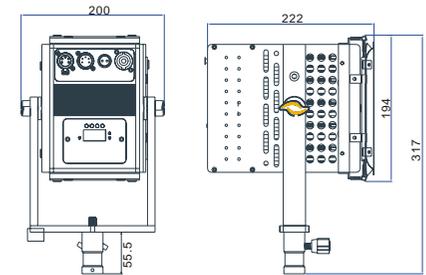
(10° installed on the unit, 25°, 40°& 60° lens put into the bag)

Dimension : 317X200X222 mm (LP-324ADB CW/WW/VW)

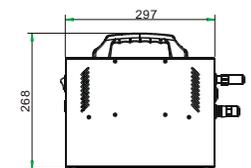
297X121.5X268 mm (BAT-LP324)

Weight : 6.2 kgs (LP-324ADB CW/WW/VW)

10 kgs (BAT-LP324)



LP-324ADB CW/WW/VW

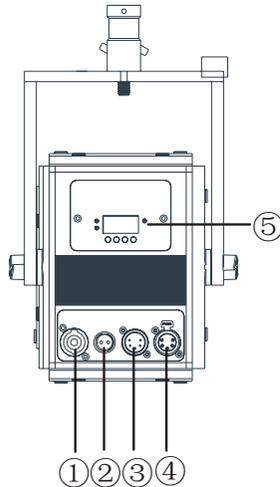


BAT-LP324

### 3. How To Set The Fixture

#### 3.1 Control Panel

LP-324 CWWW/VW:



- ①. **Mains input(AC IN):** Connect to mains supply.
- ②. **Mains input(DC 24V IN):** Connect to the battery pack.
- ③. **DMX input:** For DMX512 link, use 5-pin XLR plug cable to input DMX signal
- ④. **DMX output:** For DMX512 link, use 5-pin XLR plug cable to link the next unit.
- ⑤. **Display:**  
To show the menu and the selected functions

LED:

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode

Button:

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

without any change after one minute. To go back to the functions without any change press the **MENU** button again.

**DISP** Display Inversion

Press the **MENU** button up to when the **DISP** is blinking on the display. Use the **DOWN / UP** button to change to the mode **ON** (display normal) or **OFF** (display inversion). Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button again.

**Fhrs** Fixture Hours

Press the **MENU** button up to when the **Fhrs** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again.

**ver** Software version

Press the **MENU** button up to when the **ver** is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again.

### 4. How To Control The Fixture

You can operate the unit in two ways:

1. By master/slave built-in preprogram function
2. Universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show **P324**, on the display and move all the motors to their 'home' position. After that the unit will be ready to receive DMX signal or run the built in programs.

#### 4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. In Master/Slave mode, the first fixture whose DMX input jack has with nothing connect will be master automatically, set other units to slave mode.

#### 4.2 DMX Controller

Use universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

display will blink. Use DOWN and UP button to change the DMX512 address. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button again.

#### **chn** Channel Mode (For LP-324ADB VW only)

Press the **MENU** button up to when the **chn** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **mod1** (mode1:2 channels) or **mod2** (mode2:2 Channels) mode. Once the mode has been selected, press the **ENTER** button to setup (or automatically exit menu mode after idling one minute). To go back to the main functions press the **MENU** button.

#### **ctnd** Color Temperature Mode (For LP-324ADB VW only)

Press the **MENU** button up to when the **ctnd** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the color temperature from **2900** (2900K) to **5600** (5600K). Once the value has been selected, press the **ENTER** button to setup (or automatically exit menu mode after idling one minute). To go back to the main functions press the **MENU** button.

#### **dimm** Dimmer Mode

Press the **MENU** button up to when the **dimm** is showing on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the dimmer value from **000** to **255**. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button again.

#### **blnd** Blackout Mode

Press the **MENU** button up to when the **blnd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **yes** (yes blackout) or **no** (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button again.

#### **test** Self-Test

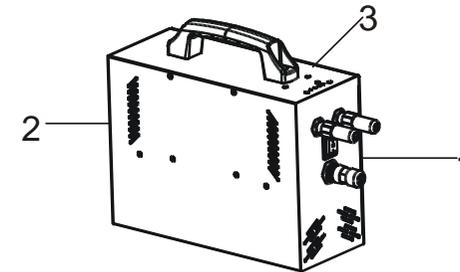
Press the **MENU** button up to when the **test** is blinking on the display. Pressing **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again.

#### **led** Led Display

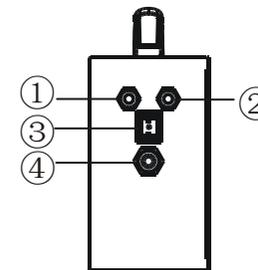
Press the **MENU** button up to when the **led** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (Led on) or **off** (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode

#### **BAT-LP324:**

BAT-LP324 is a Battery Box, it can be fully charged about 2~2.5 hours, then it can support one fixture working about 5 hours, it's available for two fixtures working about 2.5 hours, the indicators on the Battery Box show the battery status, when press battery volume checking button, the indicator only lights in yellow and blinks, it means the battery is less than 25% and close to shortage. The figures below show the control panel and its functions.



1.



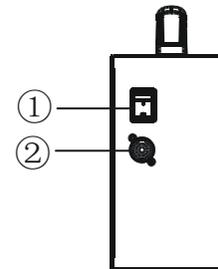
①. **DC output 1(DC 24V):** Connect to **Mains input(DC 24V IN)** of the fixture.

②. **DC output 2(DC 24V):** Connect to **Mains input(DC 24V IN)** of the fixture.

③. **3 Position Switch:** turn on the Switch between DC24 outputs (top position, off (middle position) & DC12V input (bottom position).

④. **DC input(DC 12V):** Connect to external DC 12V power supply, it won't charge to the Battery Box, the fixture work directly.

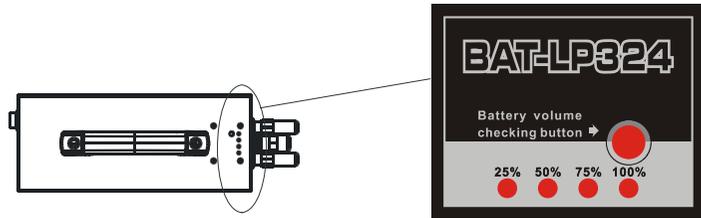
2.



①. **Switch:** turn on or turn off the switch for battery charging of the Battery Box.

②. **Mains input(AC IN):** Connect to mains power supply.

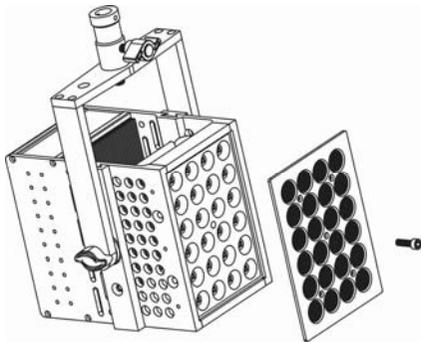
3.



The marked area in the figure shows the remaining battery power, press the Battery volume checking button then it shows 25%, 50%, 75% or 100%. Indicators light in yellow, red, red, red.

### 3.2 Change Beam Angle

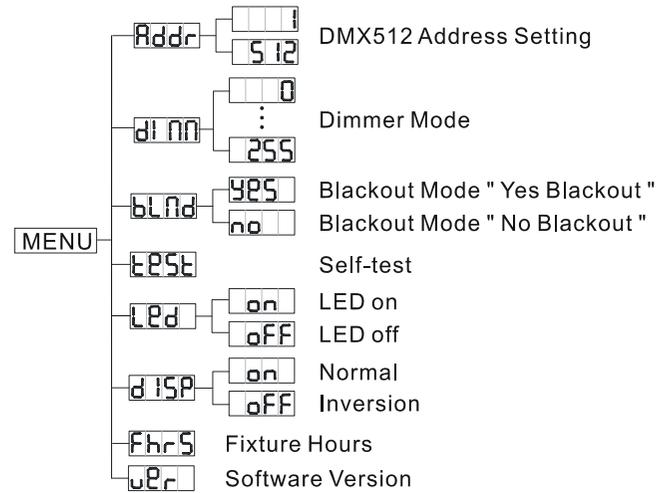
If you want to change the beam angle of fixture, you can change lens of the fixture refer to the photo below:



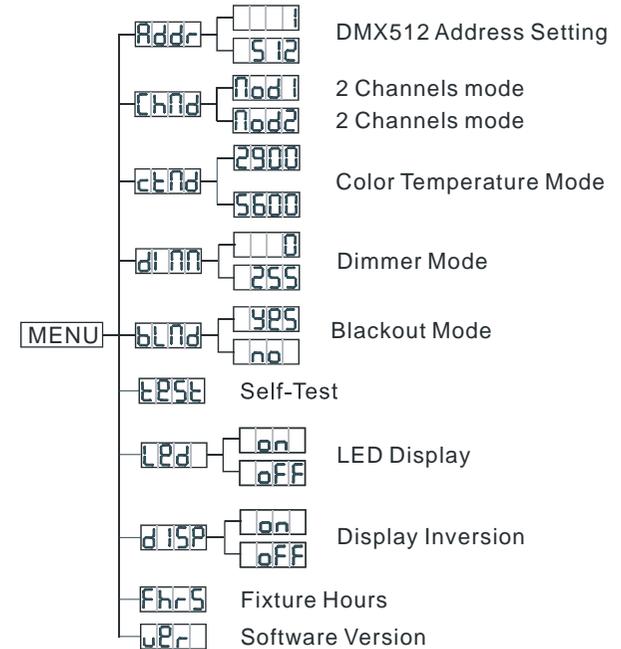
### 3.3 Main Function

To select any of the given functions, press the **MENU** button up to the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup or it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are showing below:

**For LP-324ADB CW/WW:**



**For LP-324ADB VW:**



**Addr** DMX 512 Address Setting

Press the MENU button up to when the **Addr** is showing on the display. Press ENTER button and the