



Innovation, Quality, Performance



Stage Blinder B4



LED-BL4B

User Manual

Please read the user manual before use

The image shows the cover of a user manual for the ACME Stage Blinder B4. At the top is the ACME logo in white on a black background. Below the logo is the product name 'Stage Blinder B4'. In the center is a photograph of the Stage Blinder B4, which is a black rectangular light fixture with four circular LED lenses and a carrying handle on top. Below the photograph is the model number 'LED-BL4B'. Underneath that is the text 'User Manual'. At the bottom is the instruction 'Please read the user manual before use' in a smaller font and underlined.

per day, which can reduce the output in some degree. The lens is consumable with a warranty of three months only. Please change with genuinely new lens when necessary.

### **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 2004/108/EC.

EN55103-1: 2009 ; EN55103-2: 2009;

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

**&**

### **Harmonized Standard**

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;

EN 62471:2008; EN 62493: 2010

Safety of household and similar electrical appliances

Part 1: General requirements

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 fixture 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.

## **9. Fixture Cleaning**

The cleaning of internal 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 external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

### **Fresnel lens:**

Clean the lens with neutral soap and water, and then dry it with soft cloth. Be aware that alcohol or other detergent could cause damage to lens. Please note the lens would be burnt yellow or cracked after three-month use of average 8 hours

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## 1. Safety Instructions



**WARNING**

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



**WARNING!**

- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Please unpack and check carefully there is no transportation damage before using the fixture.
- Please disconnect main power before servicing and maintenance.
- 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.
- The maximum ambient temperature is Ta: 40°C. DO NOT operate it where the temperature is higher than this.
- DO NOT connect the device to any dimmer pack.
- The housing must be replaced if they are visibly damaged.
- Unit surface temperature may reach up to 85°C. Don't 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.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely event your fixture may require service, please contact your nearest dealer.

or corroded connectors can easily distort the signal and shut down the system

2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units' power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. 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 fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. 3 pin XLR connectors:.  
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

## 8. Troubleshooting

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

### A. The fixture does not work, no light

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.

5-CH Mode				
CH 1  Dimmer	CH 2  Dimmer	CH 3  Dimmer	CH 4  Dimmer	CH 5  Flash rate
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	250~255 Open 191~249 4 LEDs random strobe respectively 186~190 Open 128~185 4 LEDs random strobe at the same time 124~127 Open 6~123 Strobe slow to fast 0~5 Open

- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture 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.



- **DANGER!** It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

- DO NOT touch any wire during operation and there might be a hazard of electric shock.



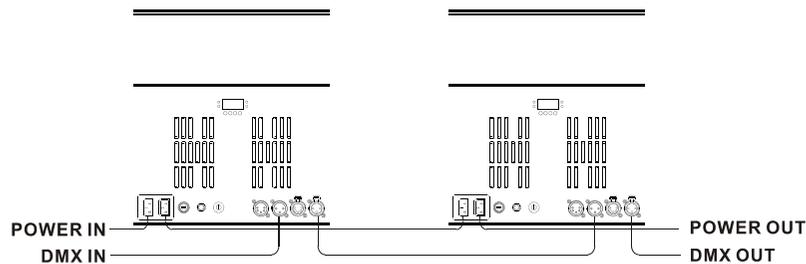
- **WARNING!** DO NOT expose the fixture to rain or moisture, in order to prevent or reduce the risk of electrical shock or fire.



- **Warning!** Do not look directly at the LED light beam while the fixture is on.

## 7. DMX512 Connections

Mode connection:

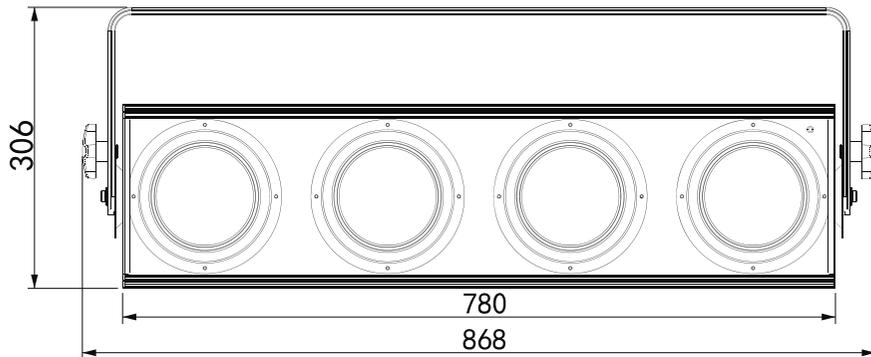


1. Connect the fixture together in a "daisy chain" by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a "Y" cable. Inadequate or damaged cables, soldered joints

For AC 220~240V power supply, the maximum fixtures that can be connected on one power cable is 4(including the first fixture) ;  
 For AC 100~120V power supply, the maximum fixtures that can be connected on one power cable is 2 (including the first fixture).

## 2. Technical Specifications

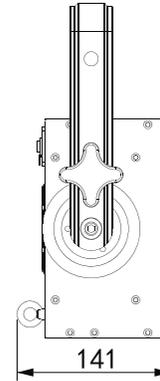
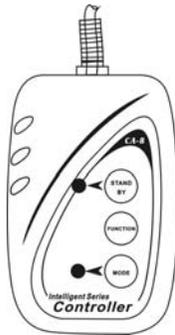
- DMX 1/2/4/5 channels switchable.
- Dimming, Strobe, Sound Active and easy controller CA-8
- Two operation modes: DMX, Master/Slave.
- Ideal for discotheques, clubs, bars, parties, Mobile DJs, etc.
- **Input Voltage:** AC 100V~240V 50/60Hz
- **Total Power consumption:** 400W
- **Fuse:** T6.3A
- **LED:** 4 x 65W LED
- **Dimension:** 868X141X306mm
- **Weight:** 7.5Kgs



1-CH Mode	2-CH Mode	
●●● Dimmer	CH 1 ●●● Dimmer	CH 2 ●●● Flash rate
255 100%  0 0%	255 100%  0 0%	250~255 <b>Open</b> 191~249 <b>4 LEDs random strobe respectively</b> 186~190 <b>Open</b> 128~185 <b>4 LEDs random strobe at the same time</b> 124~127 <b>Open</b> 6~123 <b>Strobe slow to fast</b> 0~5 <b>Open</b>

4-CH Mode			
CH 1 ●●● Dimmer	CH 2 ●●● Dimmer	CH 3 ●●● Dimmer	CH 4 ●●● Dimmer
255 100%  0 0%	255 100%  0 0%	255 100%  0 0%	255 100%  0 0%

STAND BY	Blackout the unit (the LED indicator will light on/off accordingly)
FUNCTION	<ol style="list-style-type: none"> <li>1. Short Enter can be shifted Synchronous Strobe/Random Strobe/ sound Strobe ; ( Mode1 )</li> <li>2. Change the SHOW effect (0-12); ( Mode2 )</li> <li>3. Change the lightness; ( Mode3 )</li> </ol>
MODE	<ol style="list-style-type: none"> <li>1, Run the SHOW by sound (LED indicator off); ( default mode ) ;</li> <li>2, Run the SHOW by auto. (LED indicator flash);</li> <li>3, Dimming (LED indicator on);</li> </ol>



### 3. 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.

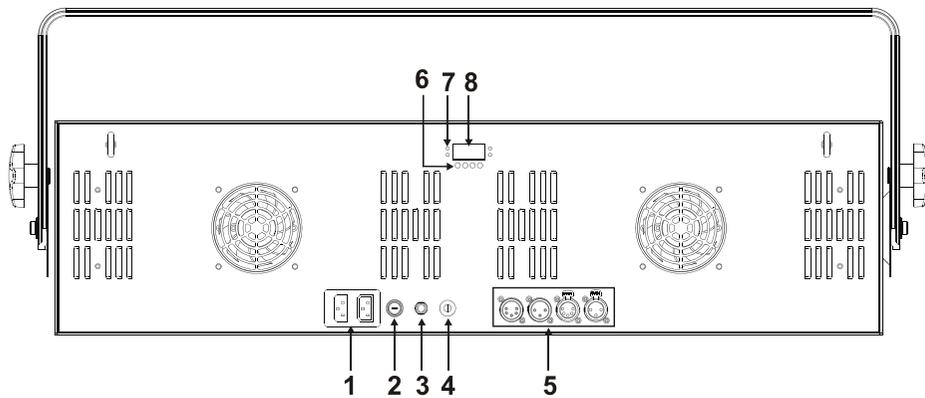
The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

### 4. How to set the unit

#### 4.1 Rear Panel

### 6. DMX512 Channel Mode

Channel mode:



① **Mains input/output:**

Connect to supply mains power, and connect to supply mains power for the next unit.

② **Fuse holder:** T6.3A

③ **CA-8 Connector:** Connect with easy controller CA-8

④ **Sound Active Port:** Receive Sound active signal

⑤ **DMX input/output:**

For DMX512 link, use 3-pin XLR plug cable to input DMX signal, and to link the next unit.

⑥ **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

**02r Firmware version**

Select the **02r**, press **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button.

## 5. How To Control The Unit

### 5.1 Two ways to operate the unit:

1. By master/slave
2. By DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. Turn on the unit, under the DMX signal, the LED will display the saved channel address (001-512); If without DMX signal, The master will show SH00-SH12(Chase Mode), STRO(Strobe Mode) or DIM (Dimming Mode), the slave will show SL00-SL01; If there is something wrong in the temperature checkout console or the temperature over high/low, the LED will display TERR, and the unit will flash (light on /light off) in a very low brightness continually. The master/slave on line can use easy controller CA-8 to control the master to change the mode (Sound active Chase, Chase automatically, Strobe and Dimming)

### 5.2 Easy controller (by CA-8)

The easy remote control is used only in master/slave mode. By connecting to the first master unit, you will find that the remote controller on the first unit will control all the other units for Standby, Function and Mode selection

without any change press the **MENU** button again.

### **dl SP** Display direction

Select the **dl SP**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **dl SP** (positive display) or **ds IP** (reverse display). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the functions without any change press the **MENU** button again.

### **blnd** Blackout Mode

Select the **blnd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **yes** (when without DMX signal, the output will be "0") or **no** (when without DMX signal, the master will run the built-in CHASE ,and the slave will keep the same running status ). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the functions without any change press the **MENU** button again.

### **TEMP** Temperature Display

Select the **TEMP**, press **ENTER** button and the display will show the temperature of each unit **1.000**, **2.000**. To go back to the functions press the **MENU** button.

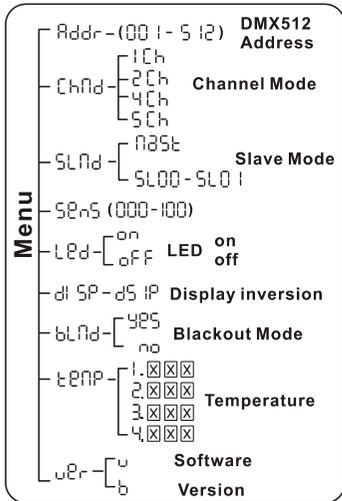
### ⑦ LED indicator:

Signal	Flash	Signal input present
Master	On	Master
Slave	On	Slave
Sound	Flash	Sound active signal input

### ⑧ Display: Show the various menus and the selected functions

## 4.2 Main Function

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



### **Addr** DMX 512 Address

Select the **Addr**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the DMX 512 address (001–512). Once the address has been selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the previous functions without any change press the **MENU** button.

### **Chnd** Channel Mode

Select the **Chnd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select the channel mode (1 / 2/4/5CH)( 1 channel mode control bright of 4 LED, 2 channel mode means 1st channel mode control bright of 4 LED , 2<sup>nd</sup> channel control effect of 4 LED, 4 channel mode control bright of 4 LED by separate, 5 channel mode control bright of 4 LED by separate, and 5<sup>th</sup> channel control effect of 4 LED ). Once

selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. To go back to the functions without any change, pls press the **MENU** button

### **SLnd** Master/Slave Mode

Select the **SLnd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **MASt** (Master) 、 **SL00** (Slave) ( Note: Each 2 units as one group, such as MAST, SL01 as one group, SL00, SL01 as another group. ) , after selected, press the **ENTER** button. Or exit menu mode without any change after 8 seconds automatically. To go back to the functions without any change press the **MENU** button.

### **SEns** Sensitivity

Select the **SEns**, press the **ENTER** button. Use the **DOWN** and **UP** button to select the sensitivity (000–100). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. To go back to the functions without any change press the **MENU** button

### **LEd** LED display

Select the **LEd**, press the **ENTER** button. Use the **DOWN** and **UP** button to select **on** (LED display on) or **off**(LED display off, after 30 sec. without any move, display will off again). Once selected, press the **ENTER** button to setup or exit menu mode without any change after 8 seconds automatically. Back to the functions