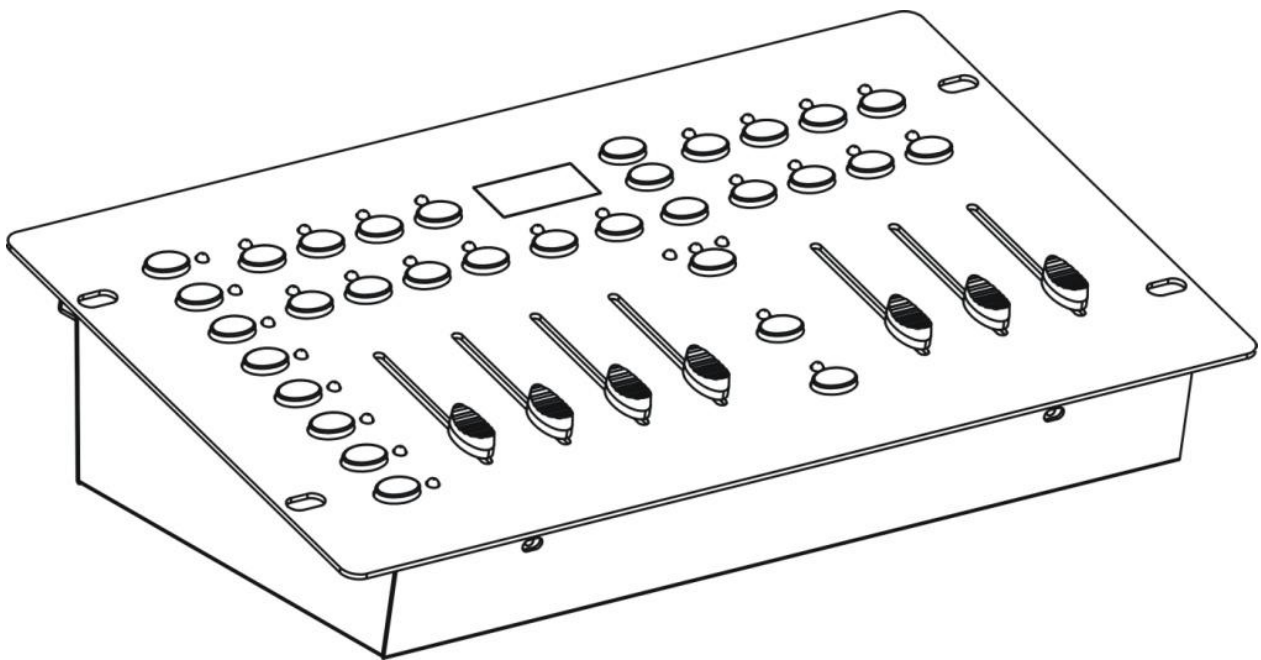




# LIGHT AND EASY

## LED-0408



## **User Guide**

*Please read these instructions carefully before use*

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# **1. Features**

1. Light and Easy is an user friendly LED controller.
2. Designed to work on all 4-Channel LED lighting fixtures
3. Control up to 32 channels of 8 LED groups
4. 8 individual buttons for selecting 8 groups of lighting fixtures
5. LED display for easy navigation
6. 8 Colour pre-set buttons with 4 Banks, 32 pre-set colours in total.
7. 8 Chases, each can save up to 32 scenes
8. 3 operation modes Auto, Sound, Manual.
9. Blackout function and instant strobe access button with variable speed.
10. Optional Foot Controller (CA-8F) for ease of operation.

## **NOTE:**

A knowledge of DMX is required to fully utilize this unit.

## **2. General Instruction**

Please read the user manual carefully, as it includes important information regarding details of operation, maintenance, and technical data. Keep this manual with the unit for future consult.

### **WARNINGS!**

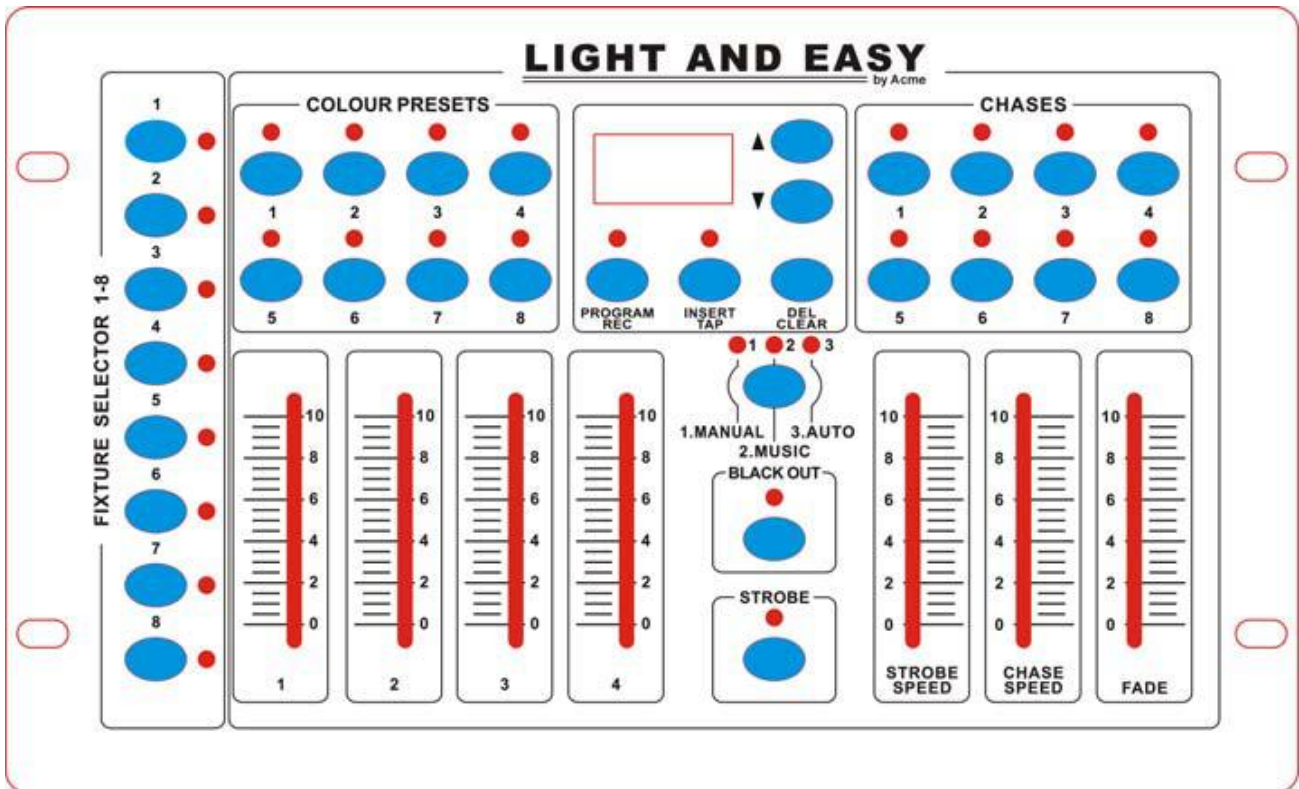
- Avoid any inflammable liquids, water or metal objects entering the unit.
- Should any liquid be spilled on the unit, DISCONNECT the power supply to the unit immediately.
- STOP using the unit immediately In the event of serious operation problems and either contact your local dealer for a check immediately.
- DO NOT open the unit--there are no user serviceable parts inside.
- NEVER try to repair the unit yourself. Repairs by unqualified people could cause damage or malfunction.

### **CAUTIONS!**

- This unit is NOT intended for home use.
- After removing the packing Make that the unit is NOT damaged in any way. If in doubt, DON'T use it and contact an authorized dealer.
- Packaging material (plastic bags, polystyrene foam, nails, etc.) MUST NOT be left within children's reach, as it can be dangerous.
- This unit must only be operated by adults. DO NOT allow children to tamper or play with it.
- NEVER use the unit under the following conditions:
  - In places subject to excessive humidity.
  - In places subject to vibrations or bumps.
  - In places with a temperature of over 45 C/113 F or less than 2 C/35.6 F.
- Protect the unit from excessive dryness or humidity (ideal conditions are between 35% and 80%).
- DO NOT dismantle or modify the unit.

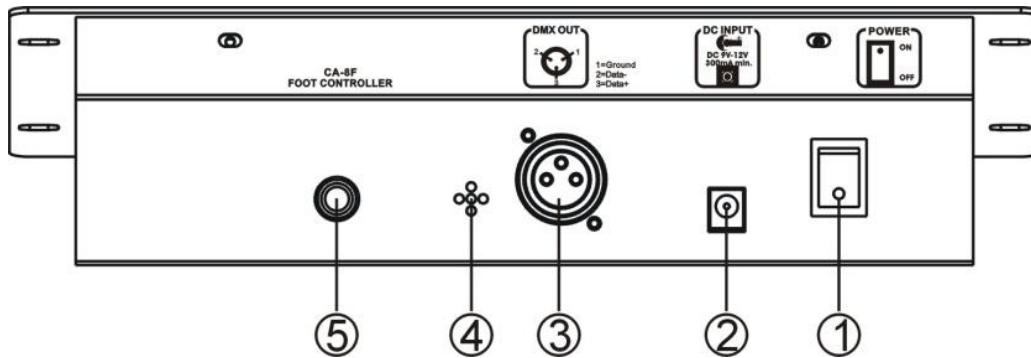
## 3. Overview

### 3.1 Front View



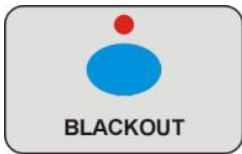
FIXTURE SELECTOR 1-8	use to select fixtures
COLOUR PRESETS 1-8	select 32 colours by UP/SOWN button
CHASE 1-8	use to select chase 1-8
PROGRAM/REC	enter or exit program/record function
INSERT/TAP	Insert one step/set up a tap for chase
DEL/CLEAR	delete preset colour, chase or step/clean output,
UP/DOWN	select bank, run chase manually, adjust the sound sensitivity and the times chase auto run.
MANUAL/MUSIC/AUTO	use to select running mode, the corresponding LED on indicating Manual Mode, Sound Mode or Auto Mode.
BLACK OUT	use to select black out mode or switch to CA-8 control
FLASH	strobe function
FADER 1-4	use to adjust the output of 1-4 channels
STROBE SPEED FADER	use to adjust the strobe speed (1-20Hz)
CHASE SPEED FADER	use to adjust the chase speed, the run time of each step can be set from 0.1S to 60M.
FADE FADER	use to adjust the fade which show as percentage of the run time

### 3.2 Rear View



- |                         |   |
|-------------------------|---|
| ① POWER SWITCH          | Turn on/off the power                         |
| ② POWER IN              | 9-12DC  |
| ③ DMX Out               | DMX-512 output                                |
| ④ MICROPHONE            | Receive music for running chase in sound mode |
| ⑤ CA-8F FOOT CONTROLLER | CA-8F connector                               |

### 4. Operation Guide



Turn on the power, the controller access to the last control status of LED-0408 or CA-8F. Pressing **BLACK OUT** button to switch to LED-0408 or CA-8F control. Follow functions will be available under LED-0408 controlling.

- |                |   |
|----------------|---|
| 1、 CP1.1-CP4.8 | colour preset, 4 banks, each bank with 8 presets  |
| 2、 CAS1-CAS8   | chase   |
| 3、 ST01-ST32   | chase step  |
| 4、 D000-D255   | data  |
| 5、 F01.0-F20.0 | strobe speed  |
| 6、 0.1 /08.8   | chase speed (the time interval of two steps)  |
| 21.30 /60.00   | (1) one digital after radix point: the unit is second   |
|                | (2) two digital after radix point: the digital before radix point is minutes, and the digital after radix point is seconds. |
| 7、 P000---P100 | fade time: the percent of the chase speed   |
| 8、 M001-M100   | sound sensitivity   |
| 9、 L001-L200   | loop  |
| 10、 NULL       | null  |



Enter programming mode: hold **PROGRAM/REC** button for 3 seconds, the LED above the button blinking indicating program in active.

#### 4.1 Store Colour Preset



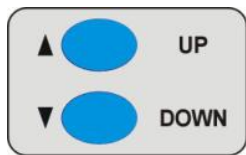
- 1 Enter programming mode.
- 2 Press **FIXTURE SELECTOR 1-8** button to choose units.



- 3 Push fader **FADER 1-4** to adjust the output.



- 4 Press **PROGRAM/REC** button.



- 5 Press **UP/DOWN** button to choose bank 1-4 to store colour preset (jump this step if you chose a bank before).

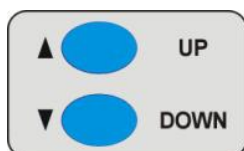


- 6 Press **COLOUR PRESETS 1-8** button, all LED blinking for 3 times, the corresponding LED blinking indicating store succeed (when the LED indicator off, means there is null colour preset, when the LED indicator blinking means one colours preset is stored).

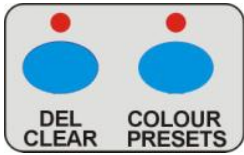


- 7 Repeat steps 2-6 to store more colour presets.
- 8 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

#### 4.2 Delete Colour preset



- 1 Enter programming mode.
- 2 Use **UP/DOWN** button to choose bank 1-4 to store colour preset (jump this step if you have choose bank before).



- 3 Hold **DEL/CLEAR** button, press **COLOUR PRESETS 1-8** button, all LED blinking for 3 times, the corresponding LED off indicating the colour preset deleted succeed.
- 4 Repeat 2-3 steps to delete more colour presets.
- 5 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

### 4.3 Program Chase



- 1 Enter programming mode.
- 2 Press **CHASE 1-8** button to choose chase which desired to store in.
- 3 Press **FIXTURE SELECTOR 1-8** button to choose units, use **UP/DOWN** button to choose bank 1-4 that desired to store colour preset, push fader 1-4 to adjust the light effect, or open a colour preset stored.
- 4 Press **PROGRAM/REC** button, all LEDs blinking for 3 times indicating one step stored succeed ( it will show "NULL" and do not store if all outputs are "0" ).
- 5 Repeat steps 3-4 to store more steps, each chase 32 steps maximum, it will show "FULL" when up to 32 steps.
- 6 Repeat steps 2-5 to store more chases.
- 7 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

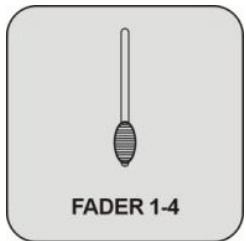
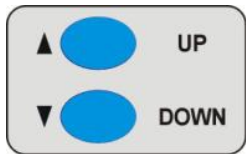
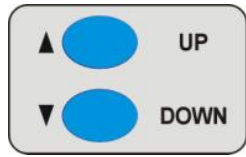
**ATTENTION:** Before using any colour preset or lighting effect, press **DEL/CLEAR** button to clean the output you set inadvertently, so that you can avoid storing the lighting effect that unwished.

### 4.4 Insert step to Chase



- 1 Enter programming mode.
- 2 Press **CHASE 1-8** button to choose the chase desired to insert step.





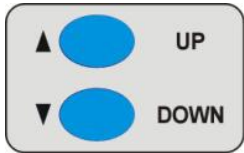
- 3 Press **INSERT/TAP** button, the LED above it will on, the present step will show on the display (for example, it will show “ST00” when there is no step).
- 4 Use **UP/DOWN** button to select the position of inserted steps ( If you want to insert fifth step, you should set the present step to be “ST05”).
- 5 Press **FIXTURE SELECTOR 1-8** button to choose units, use **UP/DOWN** button to choose colour preset or push the **FADER 1-4** to adjust the lighting effect.
- 6 Press **PROGRAM/REC** button, all LEDs blinking for 3 times indicating insert one step succeed.
- 7 Repeat steps 3-6 to insert more steps, 32 steps maximum, more than this it will show “FULL”.
- 8 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

#### 4.5 Delete Step From Chase



- 1 Enter programming mode.
- 2 Press **CHASE 1-8** button, choose the chase whose step desired to delete.
- 3 Press **INSERT/TAP** button, the LED above it will on, the present step show on the display (it will show “ST00” if none step has been

stored).



4 Press **UP/DOWN** button to choose the step desired to delete ( if you want to delete the fifth step, set the present display to “ST05”).



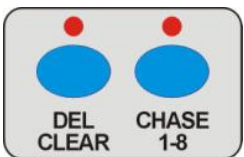
5 Press **DEL/CLEAR** button, all LEDs blinking for 3 times indicating deleted succeed. ( the steps behind it will move forward one step, for example, if you delete the fifth step, the sixth step will move to be the fifth step. If there is none step behind the step deleted, It will show the last step. Delete all steps, then it will show “NULL”).



6 Repeat steps 4-6 to delete more steps.

7 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

#### 4.6 Delete Chase



1 Enter programming mode.

2 Hold **DEL/CLEAR** button, and press one of the **CHASE 1-8** button, all LEDs blinking for 3 times, the opposite LED off indicating deleted succeed.

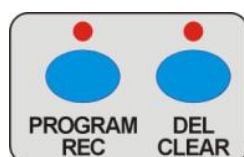


3 Repeat steps 2-3 to delete more chases.

4 Hold **PROGRAM/REC** button for 3 seconds to exit programming mode, the LED above **PROGRAM/REC** button will be off.

#### 4.7 Factory Reset

**Be careful, factory reset will delete all the settings!**



1 Turn off the power.

2 Press the **PROGRAM/REC** and **DEL/CLEAR** button at the same time, turn on the power, wait until all LEDs blinking, loose the buttons, the LEDs stop blinking indicating factory reset succeed.

## 4.8 Manual Mode



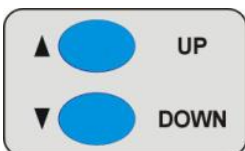
- 1 Insure the LED above the **BLACK OUT** button is off.
- 2 Press **FIXTURE SELECTOR 1-8** button to choose units desired.



- 3 Push **FADER 1-4** to adjust the effect.

**ATTENTION:** The LED which besides **FIXTURE SELECTOR** button on indicating the correspond units could be control by faders, you can delete the setting that you do not want to store by press **DEL/CLEAR** button.

## 4.9 Run Colour preset



- 1 Insure the LED above the **BLACK OUT** is off.
- 2 Use **UP/DOWN** button to choose BANK 1-4 which store the COLOUR PRESET desired.



- 3 Press **COLOUR PRESET 1-8** button to run COLOUR PRESET.

## 4.10 Run CHASE



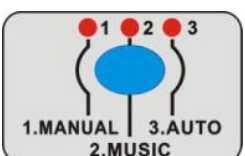
Be sure there are CHASES stored. Press **CHASE 1-8** buttons to run CHASE directly, the correspond LED will be on. If you choose more than one CHASE at a time, then the first correspond LED will be on and others will blinking (1Hz), all the CHASE will circuit run one by one.

There are three modes: Manual Mode, Sound Mode and Auto mode.

### A. Manual mode

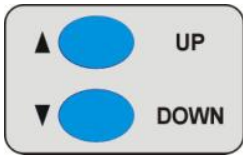


- 1 Insure the LED above **BLACK OUT** button is off.
- 2 Press **CHASE 1-8** button to run the CHASE, the display will show the present CHASE.



- 3 Press **MANUAL/MUSIC/AUTO** button to choose Manual Mode,

the MANUAL LED on indicating into Manual Mode.

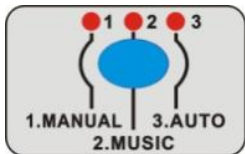


- 4 Press **UP/DOWN** button to change the step, UP to the last step, DOWN to the next step.

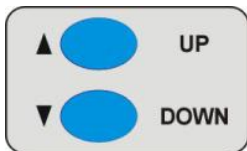
## B. Sound Mode



- 1 Insure the LED above BLACK OUT is off.
- 2 Press **CHASE 1-8** button to run the CHASE, the display will show the present CHASE.



- 3 Press **MANUAL/MUSIC/AUTO** button to choose Sound Mode, the MUSIC LED on indicating Sound Mode.

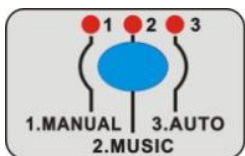


- 4 Press **UP/DOWN** button to adjust the sound sensitivity, the CHASE will run to the music.

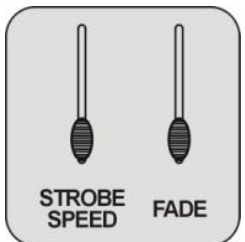
## C. Auto mode



- 1 Insure the LED above **BLACK OUT** button is off.
- 2 Press **CHASE 1-8** button, the display will show the present CHASE.



- 3 Press **MANUAL/MUSIC/AUTO** button to choose Auto Mode, the AUTO LED on indicating Auto Mode.



- 4 Push **CHASE SPEED FADER** to adjust the CHASE speed, push **FADE FADER** to adjust the fade time (the percent of the chase speed). Press **UP/DOWN** button to set the run time for CHASE (It's useful when you run more than one CHASE at one time).



You can also change the CHASE speed via **INSERT/TAP**



button. When running the CHASE, press the **INSERT/TAP**

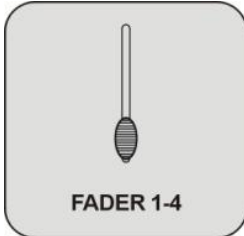
button and the indicator will blinking, then press the

**INSERT/TAP** button and the indicator off, the blinking time will

be the CHASE speed.

#### 4.11 Over control

It can be used to manually control units when running COLOUR PRESET or CHASE.



- 1 Ensure the LED above **BLACK OUT** button is off.
- 2 Run COLOUR PRESET or CHASE directly.
- 3 Press **FIXTURE SELECTOR 1-8** button to choose units.
- 4 Push **FADER 1-4** to adjust the lighting effect, the changes of the channel values are in dependent of the COLOUR PRESET or CHASE.
- 5 Back to the normal mode, please press **DEL/CLEAR** button.

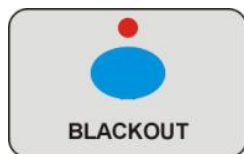
#### 4.12 Strobe



Press **STROBE** button when BLACK OUT LED on or off, all the units will strobe, at the same time you can jog STROBE SPEED fader to adjust the strobe speed (1Hz-20Hz).

#### 4.13 Black Out Mode

There are 3 kinds of black out mode that indicate by the LED.



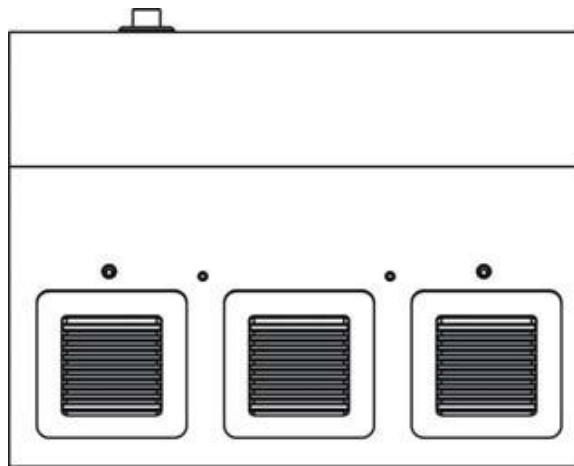
- 1 LED off: LED-0408 is active.
- 2 LED on: Pressing **BLACK OUT** button, corresponding LED on, all units blackout and outputs become "0" (exception the **STROBE** is still active).
- 3 LED blinking: Pressing **BLACK OUT** button for 3 seconds, corresponding LED blinking, the units control by FOOT CONTROLLOER (CA-8F), all the buttons will not work expect **BLACK OUT** button, so you can press to back to LED off mode and control by LED-0408.

#### 4.14 Foot Controller (CA-8F)



LED-0408 can work with CA-8F, when the CA-8F connect with the LED-0408, pressing the **BLACKOUT** button on LED-0408 for 3 seconds to active the CA-8F; pressing the **STANDBY** button on CA-8F for 3 seconds to active the LED-0408. When the STAND BY indicator is blinking, means the LED-0408 is active, when the indicator is not blinking, means the CA-8F is active. The functions are shown below:

<b>STAND BY (LED1)</b>	<b>LED blinking</b>	<b>LED off</b>	<b>LED on</b>
	SWITCH TO LED-0408	CA-8F ACTIVATE	STAND BY
<b>FUNCTION</b>	CHASE SELECT	NEXT STEP	STROBE ACTIVATE
<b>MODE(LED2)</b>	LED on	LED blinking	LED off
	MUSIC RUN	MANUAL RUN	STROBE



CA-8F

### **EC 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.

EN55103-1:199601-2; EN55103-2:1996;  
EN61000-3-2:2000+A2:2005;  
EN61000-3-3:1995+A1:2001+A2:2005.

&

### **Harmonized Standard**

EN 60598-1: 2004  
IEC 60598-1:2003+ corrigendum 2004  
Part 1:General requirements and test

Following the provisions of the low voltage directive 73/23/EEC and 93/68/EEC

## Technical Specification

Power Input .....	9-12 DC
DMX Output .....	3 pin female XLR
Audio Input .....	By built-in microphone
Dimensions.....	280 x 170 x 66 mm
Weight.....	1.8 kgs

**Innovation, Quality, Performance**