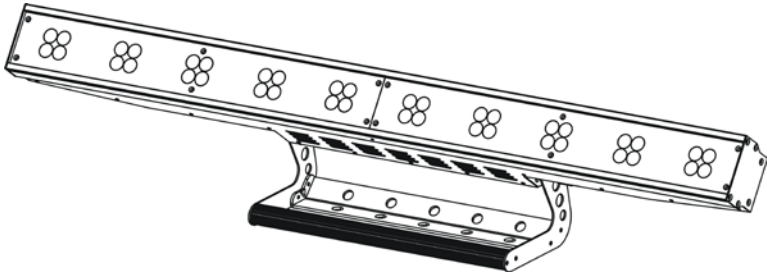


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User Guide

Professional Entertainment Technology

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1. Safety Instruction



WARNING

Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

- Please keep this User Manual 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.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only and use only in a dry location.
- 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 mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- Make sure there are not flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit.
- Maximum ambient temperature is TA: 40°C and don't operate it where the temperature is higher than this..
- Don't connect the device to any dimmer pack or power pack.
- Do not look directly at the LED light beam while the fixture is on.
- The housing must be replaced if they are visibly damaged.
- Do not touch any wire during operation as high voltage might be causing electric shock.

Warning

For power supply, do not connect in series much more than 10 units, use another mains supply for next 10 units.

- 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 must be replaced if they are visibly damaged.

Caution

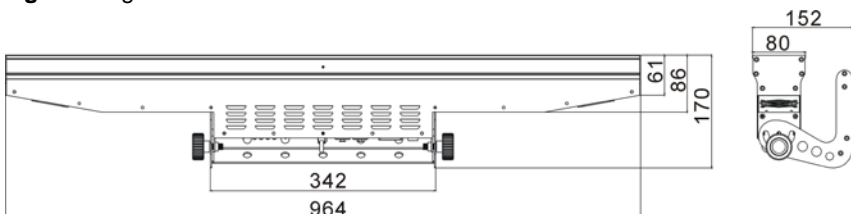
There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation

The unit should be mounted via its metal hole 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 10 times weight of the unit.

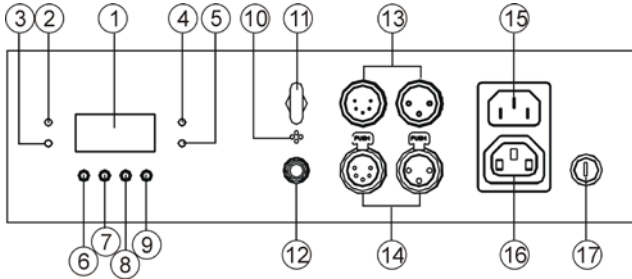
2. Technical Specification

- 1/2/2/11 channels switchable
- Automatically switching between music trig and auto mode
- Great built-in programs under Master/Slave mode triggered by music
- Individual control of each LED cluster
- Sound sensitivity adjustable via the menu
- Auto-fading show with 3 different speeds
- Specially designed stand for floor operation
- LCD display for easy addressing and setting
- **Power Supply:** 100~240V 50/60Hz
- **Fuse:** T 6.3A
- **Power consumption:** 57W
- **LED:** 1W x 20pcs White
- **Dimension:** 964 x 170 x 152 mm
- **Weight:** 7.2kgs



3. How To Set The Unit

3.1 Control Panel



① Display: To show the various menus and the selected functions

LED

② DMX	On	DMX input present
③ MASTER	On	Master Mode
④ SLAVE	On	Slave Mode
⑤ SOUND	Flashing	Sound activation

Button

⑥ MENU	To select the programming functions
⑦ DOWN	To go backward in the selected functions
⑧ UP	To go forward in the selected functions
⑨ ENTER	To confirm the selected functions

⑩ Microphone: Receive the sound to control the unit

⑪ Safety Ring: Keep the installation safe.

⑫ Only for remote control: By connect to the 1/4" microphone jack to control the unit for Stand by, Function and Mode function.

⑬ DMX input: For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal

⑭ DMX output: For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

⑮ Mains input: Connect to supply mains power.

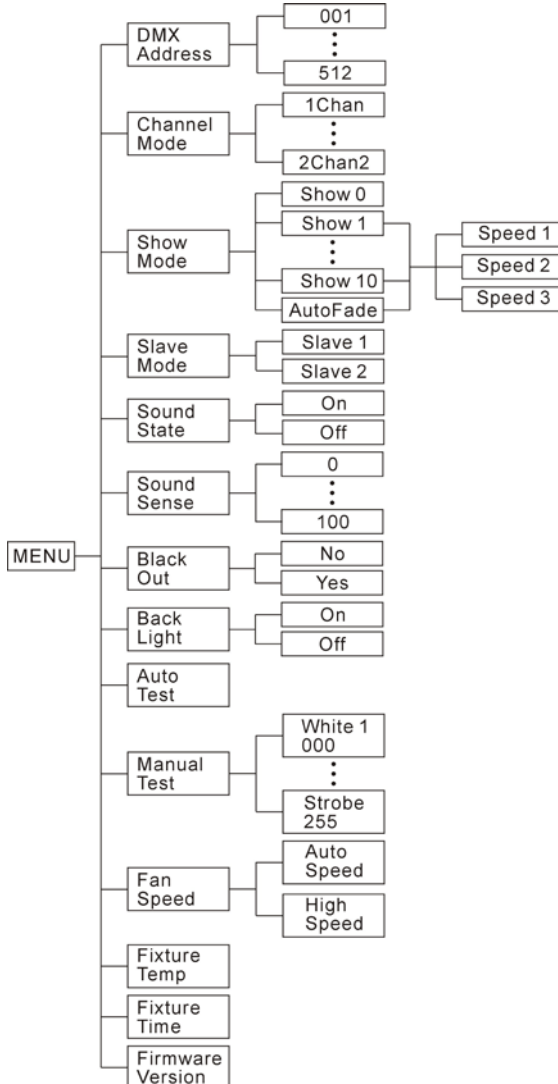
⑯ Mains output: Connect to supply mains power for the next unit.

⑰ Fuse: For over current protection.

3.2 Main Function

To select any of the given functions, press the **MENU** button up to when 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 **ENTER** button to store. Back to the main functions without any change press the **MENU** button or wait for 8 seconds.

The main functions are shown below:



DMX Address

Press the **MENU** button up to when the **DMX Address** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Channel Mode

Press the **MENU** button up to when the **Channel Mode** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **1** channel mode, **2** channels mode1, **2** channels mode2 or **11** channels mode. Once selecte, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Show Mode

Press the **MENU** button up to when the **Show Mode** is shown on the display. Press **ENTER** button, the display will blink. Press **DOWN** and **UP** button to select **Show 0** (Random show), **Show 1** or ... or **Show 10** or **Auto Fade**, once selected, press **MENU** button to store and back to the last menu, then the unit will run to music. If you choose Show 1-10 or Auto Fade, and press the **ENTER** button, then you can press **DOWN** and **UP** button to select **Speed 1** (fast speed) or **Speed 2** (middle speed) or Speed 3 (slow speed), press **ENTER** button to store, the unit will run in the speed that selected. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Slave Mode

Press the **MENU** button up to when the **Slave Mode** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **slave 1** or **slave 2** mode. Once select, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Sound State

Press the **MENU** button up to when the **Sound State** is shown on the display. Press **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (sound control on) or **off** (sound control off) mode. Once select, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Sound Sense

Press the **MENU** button up to when the **Sound Sense** is shown on the display. Press

ENTER button and the display will blink. Use **DOWN** and **UP** button to adjust the sound sensitively (0-100) of the unit. Once the value has been selected, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Black Out

Press the **MENU** button up to when the **Black Out** is shown 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 select, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Back Light

Press the **MENU** button up to when the **Back Light** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (back light on) or **off** (back light off 1 minute after auto show) mode. Once select, press the **ENTER** button to store. Back to the main functions without any change press the **MENU** button (or wait for 8 seconds to exit menu mode).

Auto Test

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

Manual Test

Press the **MENU** button up to when the **Manual Test** is shown on the display. Press **ENTER** button and **White1** will blink, use **UP** and **DOWN** button to choose **White 1** or **White 2** or ... or **White 10** or **Dimmer** or **Strobe**, press **ENTER** button to enter, then press **UP** and **Down** button to adjust the value and press **ENTER** button to choose next optional. Back to the main functions without any change please press the **MENU** button.

Fan Speed

Press the **MENU** button up to when the **Fan Speed** is shown on the display. Press **ENTER** button to confirm and use **UP** and **DOWN** button to select **High Speed** or **Auto Speed**, once select, press **ENTER** button to store. Back to the main functions without any change please press the **MENU** button.

Fixture Temp

Press the **MENU** button up to when the **Fixture Temp** is blinking on the display. Pressing **ENTER** button and the display will show the temperature of the unit. To go back to the

functions press the **MENU** button.

Fixture Time

Press the **MENU** button up to when the **Fixture Time** 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.

Firmware Version

Press the **MENU** button up to when the **Firmware Version** 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.

4. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By easy controller
3. By universal DMX controller

4.1 Master/Slave Built In Preprogrammed Function

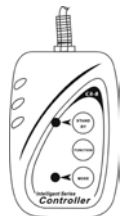
By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show.

2-light show

In slave mode, slave 1 means the unit run as the master unit and slave 2 means 2-light show. In order to create a great light show, you can set slave 2 on the second unit to get contrast movement to each other, even if you have two units only.

4.2 Easy Controller

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote controller on the first unit will control all the other units for Stand by, Function and Mode selection.



Stand By	Blackout the unit		
Function	1. Sync Strobe 2. Async strobe 3. Sound Strobe	Select show 1-10 or Auto fade	Select Speed 1. Slow 2. Middle 3. Fast
Mode	Sound (LED OFF)	Slow blinking	Fast blinking

4.3 DMX Controller

Using 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.

Press the **MENU** button up to when the **DMX Address** is showing on the display. Press **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 to store. To go back to the functions without any change press the **MENU** button or wait for 8 seconds to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units:

Channel Mode	Unit 1	Unit 2	Unit 3	Unit 4
1 channel	1	2	3	4
2 channels	1	3	5	7
11 channels	1	12	23	34

4.4 DMX 512 Configuration

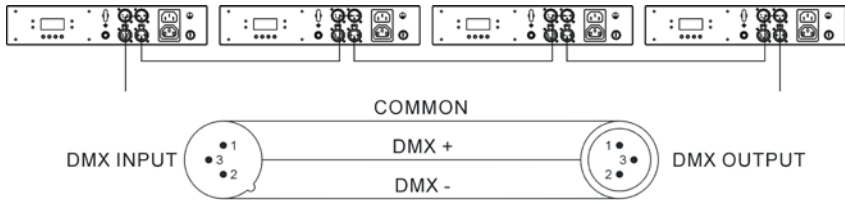
1 & 2 & 2-CH modes:

1 Channel mode		2 Channel mode 1		2 Channel mode 2	
CH 1		CH 1	CH 2	CH 1	CH 2
Dimmer/Strobe		Dimmer	Dimmer/Strobe	Chase	Chase Speed
248-255	On ⚡⚡⚡	255	248-255	241-255	255 Fast 0 Slow
201-247	⚡⚡	100%	201-247	216-240	
191-200	⚡ Sound Active		191-200	191-215	
8-190			8-190	166-190	
0-7	Blackout	0	0-7	141-165	
		0%		116-140	
				91-115	
				66-90	
				41-65	
				16-40	
				0-15	
				Off	
				Random Chase	
				Chase 9	
				Chase 8	
				Chase 7	
				Chase 6	
				Chase 5	
				Chase 4	
				Chase 3	
				Chase 2	
				Chase 1	
				Off	

11-CH mode:

11 Channel mode										
CH 1	CH2	CH3	CH 4	CH5	CH6	CH7	CH8	CH9	CH10	CH11
White 1	White 2	White 3	White 4	White 5	White 6	White 7	White 8	White 9	White 10	Dimmer/Strobe
255	255	255	255	255	255	255	255	255	255	248-255
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	On ⚡⚡⚡
0	0	0	0	0	0	0	0	0	0	201-247
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	⚡⚡
										191-200
										⚡
										Sound Active
										8-190
										Blackout
										0-7

4.5 DMX512 Connection



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.

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. 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.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not 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.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when power is disconnected to the unit.
5. Each lighting unit 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).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin 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 (+)
Pin 4/5: 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.
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.

C. Some units don't respond to the easy controller

1. You may have a break in the DMX cabling.
2. Check the LED for the response of the master/ slave mode signal.

D. No response to the sound

1. Make sure the unit does not receive DMX signal.
2. Check if the sound sensitively is too low.

E. One of the channels is not working well

1. The cable connected to the PCB may be broken.

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.

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.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995;
EN61000-4-3: 2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996,
EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance