Litecraft®

CYCStrobe 50

ILED-ST50



USER GUIDE

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USE

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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.

&

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

8 . Fixture Cleaning

The cleaning of optical lenses 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.

1. Safety Instructions



WARNING

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

- Please keep this User Guide for future reference. If you sell the unit, be sure that this instruction booklet is included.
- 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. 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 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.
- Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85℃. 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 Service Centre. Always use the original 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 filters 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 repair. In the unlikely event the unit requires service, please contact an Authorised Service Centre.

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 unit's weight. 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, the range of mounting height is 0~30 M.

For 230V 50Hz power supply, maximum units that can be linked on one power cable is 10
For 120V 60Hz power supply, maximum units that can be linked on one power cable is 6

7. 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. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the unit. Set the proper address.

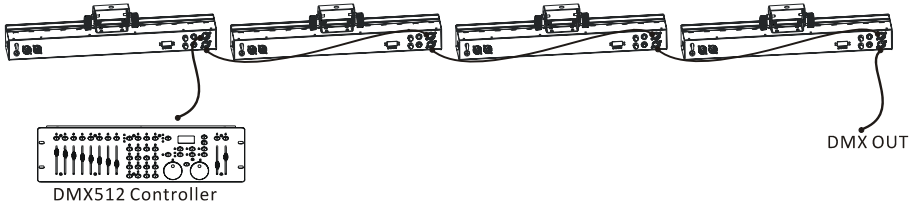
D. No response to the sound

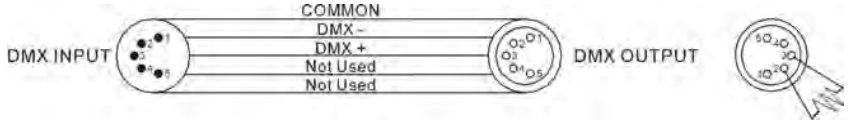
1. Make sure the unit does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone

E. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

6. DMX512 Connection





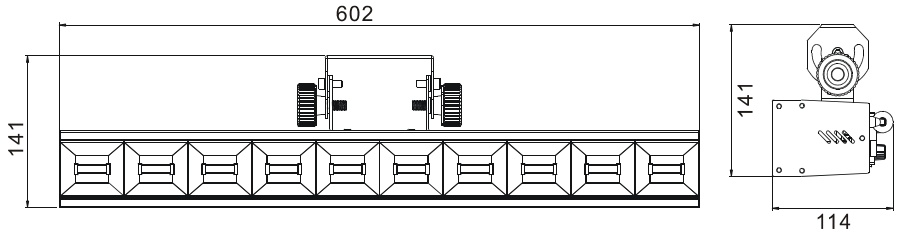
1. If you using a controller with 3 pins DMX output, you need to use a 3 to 5 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1⁄4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
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 one of the units' power is disconnected.
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⁄Pin 5: Not used.

2. Technical Specifications

4 DMX Channel Modes:	1⁄2⁄10/12 Channels
3 Operation Modes:	DMX512, Master/Slave and Sound Active.
Strobe Speed & Intensity	Variable via adjustable by knobs and DMX.
Sound-to-Light	built-in lighting shows under Master/Slave mode triggered by music.
Remote Control	Optional CA-8 (for instant lighting shows)
Dimming	Smooth 0~100% dimming

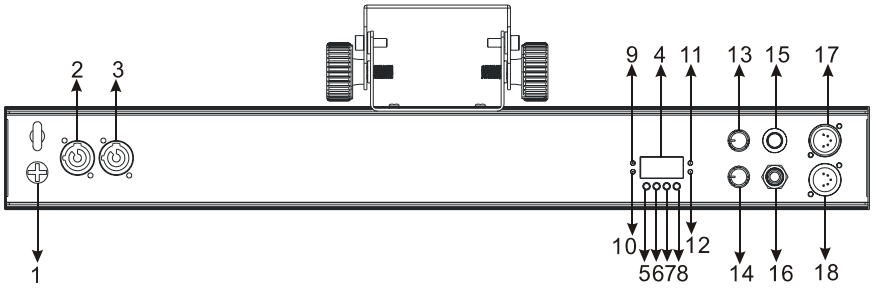
Ideal for pubs, clubs, bars, Mobile DJs and more.

- ◇ **Power Voltage:** AC 100V~240V, 50⁄60Hz
- ◇ **Power Consumption:** 60W
- ◇ **LED Sources:** 10pcs × 5W White LEDs
- ◇ **Fuse:** T 2A
- ◇ **Weight:** 2.8Kgs
- ◇ **Dimension:** 602 × 114 × 141mm



3. How To Set The Unit

3.1 Control panel



1. FUSE（T 2A）: Overcurrent protection (replaceable fuse)

2. POWER IN: PowerCon from main supply or other unit

3. POWER OUT: PowerCon Loop main supply to the next unit.

4. DISPLAY: Shows menus, functions, settings.

BUTTON:

5. MENU	To select the programming functions
6. ▼ DOWN	To go backward in the selected functions
7. ▲ UP	To go forward in the selected functions
8. ENTER	To confirm the selected functions

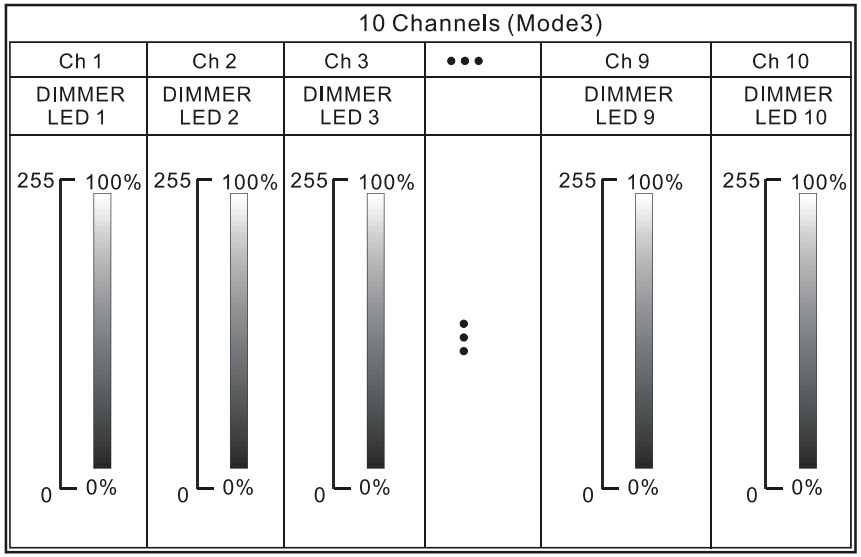
LED:

9. DMX	On	DMX input present
10. MASTER	On	Master Mode
11. SLAVE	On	Slave Mode
12. SOUND	Flashing	Sound activation

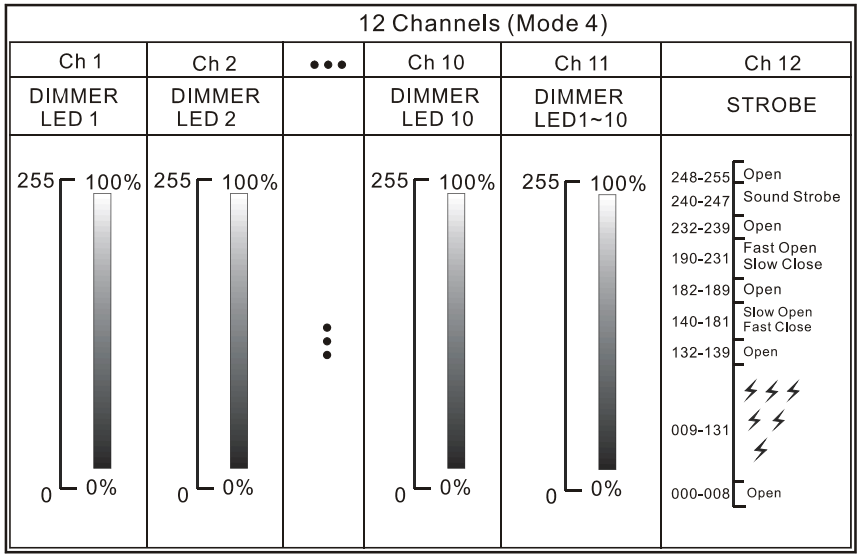
13. SPEED: Manually adjust strobe value.

14. DIMMER: Manually adjust dimmer value.

10 Channel Mode:



12 Channel Mode:



5. DMX 512 Configuration

1 & 2 Channel Modes:

DMX512 CONFIGURATIONS

1 Channel (Mode 1)	2 Channels (Mode 2)	
Ch 1	Ch 1	Ch 2
SHOW	DIMMER	STROBE
248-255 Sound Active Show1~12	255 100%	⚡⚡⚡
228-247 Show 12		
208-227 Show 11		
188-207 Show 10		
168-187 Show 9		009-255 ⚡⚡
148-167 Show 8		
128-147 Show 7		
108-127 Show 6		⚡
088-107 Show 5		
068-087 Show 4		
048-067 Show 3		000-008 No Function
028-047 Show 2		
008-027 Show 1		
000-007 No Function	0 0%	

15. MICROPHONE: Sensor for music/sound activation.

16. REMOTE: Only for connection of optional CA-8 remote controller

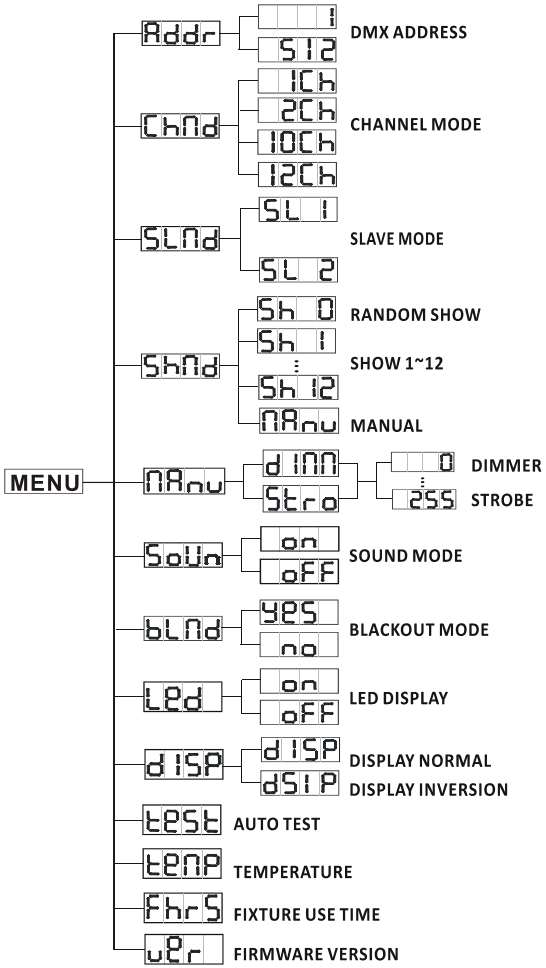
17. DMX IN: 5pin XLR for DMX512 from controller or other unit.

18. DMX OUT: 5pin XLR for DMX512 to next unit.

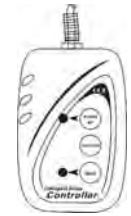
3.2 Main Function

To select a function, press the **MENU** button until the required function is showing on the display. Select the function by pressing the **ENTER** button, 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 confirm, or to go back to the main function without any change press the **MENU** button.

Menu Structure is shown below



4.2 Easy Controller



The optional CA-8 easy remote control is used only in master/slave mode. By connecting to the 1⁄4” microphone jack of the first unit, remote control of the first unit is possible, and in turn will control all the other units for Stand by, Function and Mode selection.

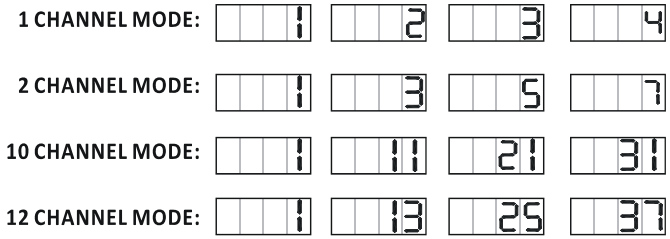
Blackout	Blackout the unit	
Function	Synchronous Strobe by auto Synchronous Strobe by sound (press and hold the button)	Select Show 1 – 12 Manual mode
Mode	Sound (LED OFF)	Show (LED ON)

4.3 DMX Controller

When using a universal DMX controller to control the units, set DMX address on each unit in the range 1 to 512 channel so that the units can receive DMX signal.

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 pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again.

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



4. How To Control The Unit

Operate the unit in one of three ways:

1. Master/slave built-in preprogram function
2. Easy controller
3. Universal DMX controller

There is no need to turn the unit off when changing the DMX address, the new DMX address setting will take effect immediately. Every time the unit is turned on, LEd will show on the display while the fixture is initialized this can take up to 20 seconds. 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 an instant show is needed. Set the first unit in master mode and select Sh 0 (random show) or Sh 1 (show 1) or… or Sh12 (show 12) mode. Its DMX input jack will have nothing plugged into it, and its master LED will be constantly on and sound LED will flash to the music. The other units will have to set in slave mode SLnd and select SL 1 (normal) or SL 2 (2-light show) mode, Their DMX cables plugged into the DMX input jacks (daisy chain) and the slave led lights will constantly on.

2-light show

In SLnd (slave mode), SL 1 means the unit works normally and SL 2 means 15-light show. In order to create a great light show, you can set SL 2 on the fifteenth unit to get contrast movement to each other, even if you have two units only.

Addr DMX 512 ADDRESS

To select the Addr, press the **ENTER** button to show the **DMX ADDRESS** on the display. Use the **DOWN**/**UP** button to adjust the address from **1** to **512**. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

ChNd CHANNEL MODE

To select the ChNd, press the **ENTER** button to show the **CHANNEL MODE** on the display. Use the **DOWN**/**UP** button to select the **1**, **2**, **10**, **12** channel modes. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

SLNd SLAVE MODE

To select the SLNd, press the **ENTER** button to show the **SLAVE MODE** on the display. Use the **DOWN**/**UP** button to select the SL 1 (**SLAVE 1)**, SL 2 (**SLAVE 2)** modes. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

ShNd SHOW MODE

To select the ShNd, press the **ENTER** button to show the **SHOW MODE** on the display. Use the **DOWN**/**UP** button to select the Sh 0 (Random show), Sh 1 (Show 1) or … or Sh12 (Show 12) mode and nAnu (Manual show). Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

MANUAL MODE

To select the nAnu, press the **ENTER** button to show the **MANUAL MODE** on the display. Use the **DOWN/UP** button to select the dIMM (Dimmer) or Strb (Strobe). Once the mode has been selected, press the **ENTER** button, and use the **DOWN** and **UP** button to adjust the value (0-255). Once selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

SOUND MODE

To select the SoUn, press the **ENTER** button to show the **SOUND MODE** on the display. Use the **DOWN/UP** button to select the on (sound on) or oFF (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

BLACKOUT MODE

To select the bLnd, press the **ENTER** button to show the **BALCKOUT MODE** on the display. Use the **DOWN/UP** button to select the yES (blackout) or no (normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

LED DISPLAY

To select the Led, press the **ENTER** button to show the **LED DISPLAY** on the display. Use the **DOWN/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, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

DISPLAY INVERSE

To select the dISP, press the **ENTER** button to show the **DISPLAY** on the display. Use the **DOWN/UP** button to select the dISP (normal) or dSIP (inversion), press **ENTER** button to setup. Back to the functions without any change press **MENU** button.

AUTO TEST

To select the tESt, press the **ENTER** button to show the **TEST** on the display and the unit will run a self-test . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

TEMP.

To select the tEmP, press the **ENTER** button to show the **TEMP.** on the display and the display will show the temperature of the unit . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

FIXTURE HOURS

To select the FhrS, press the **ENTER** button to show the **FIXTURE HOURS** on the display and the display will show the number of working hours of the unit . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

SOFTWARE VERSION

To select the uEr, press the **ENTER** button to show the **SOFTWARE VERSION** on the display and the display will show the version of software of the unit . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

Litecraft®

PROFESSIONAL LIGHTING TECHNOLOGY

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