



LED WRITER USER MANUAL



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Please read over this manual before operating the light

1.Summary

➤ Summary

Thank you for purchasing our LED Writer. Please read these instructions carefully prior to operation. Use the fixture according to these instructions to reduce the chance of damage and accident.

➤ Product Introduction

This LED Writer uses high power R, G, B LED diodes. Each color can be manipulated independently. The built-in program includes strobe, water, text writing, etc. It can operate by international standard DMX 512 signal.

➤ Packing list

- LED Writer 1PC
- Handle 1PC
- Plastic screws 2PCS
- Power cable 1pc
- Infrared ray input Control 1PC
- Infrared receiver 1PC
- User manual 1PC
- Warranty Card 1 PC

2.Safety Information

➤ Safety Notes

! Repairs should be attempted only by qualified professionals;

! Always make sure disconnect from the power source before setting up, servicing and moving;.

! Avoid direct eye exposure to the LED output when it is on;



避免电击!

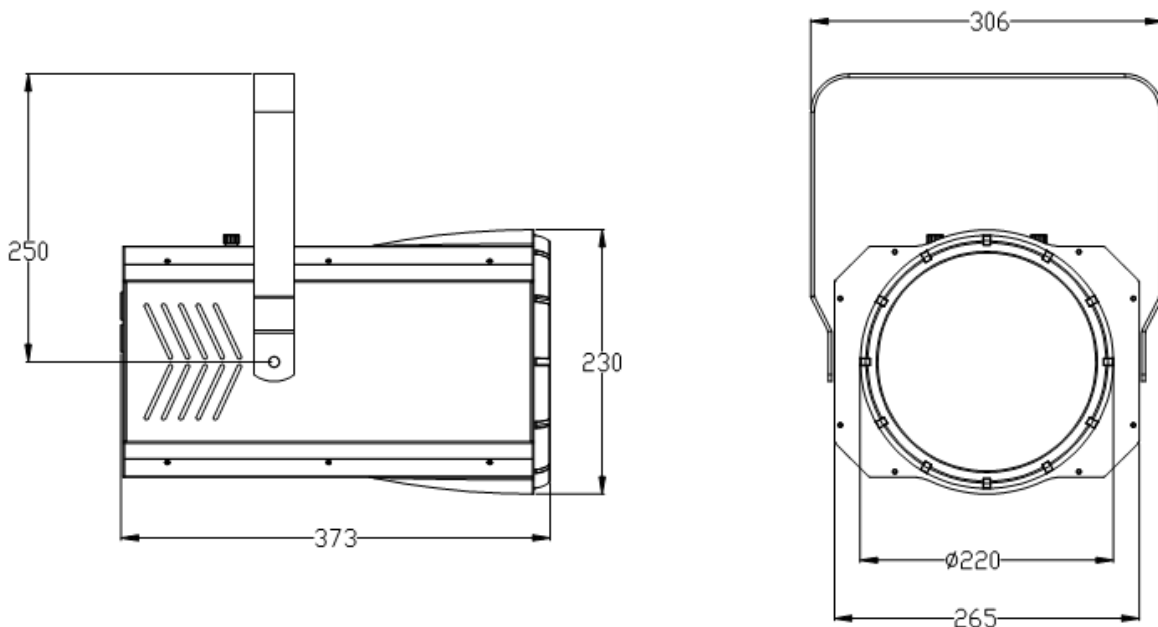


➤ Safety

Instruction

- Make sure the power supply voltage is consistent with the requirements of this fixture.
- Before the installation, please ensure that the light's fasteners and mechanical structure have been received in good condition and there is no damage.
- This light is designed for indoor use only. Ambient temperature should not exceed 40 degrees Celsius.
- This fixture maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items within 0.5 meters of any surface of this unit.
- Please make sure that this fixture is properly grounded.

3. Dimensions



4. Main Functions

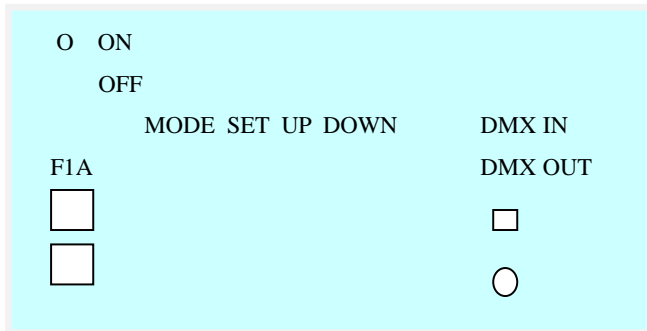
- High quality LED's: low power consumption, high brightness, stable output and long lifetime.
- Lightweight, rugged case.
- High quality lens for image projection.
- Sound sensitivity adjustable digitally.
- Infrared input control.
- PS/2 keyboard input.

- Input and projection of up to 30 letters, numbers, or symbols. The text may be played from left to right. If 4 or fewer letters are entered, they may be played from top to bottom.
- Built-in memory storage, with 16 banks of data (each bank holds 30 symbols).
- Each bank may be set different display and strobe speeds
- DMX512 channels:3 channels

5.DMX Control Function

Channels	DMX Volume	Function
Channel 1	0-4	shutter
	5-19	Program 1
	20-34	Program 2
	35-49	Program 3
	50-64	Program 4
	65-79	Program 5
	80-94	Program 6
	95-109	Program 7
	110-124	Program 8
	125-139	Program 9
	140-154	Program 10
	155-169	Program 11
	170-184	Program 12
	185-199	Program 13
	200-214	Program 14
	215-229	Program 15
230-244	Program 16	
245-255	Sound active	
Channel 2	0-255	Speed of text scroll
Channel 3	0-9	No Strobing
	10-255	Strobing at increasing

6.Display Operation



- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increases
- DOWN: menu selection or parameters decrease

7.Menu Instruction



Remote

OPTO-SENSOR

PS/2 Key board (Provided by user)

1. Manual operation :

MODE: Each press of the "MODE" button changes the operating mode of the fixture. Confirm the change by pressing "SET".

MODES:

- (1) d.001 : DMX MODE, press up/down to elect the DMX address from d.001 to d.512. (the button of "SET" is invalid)
- (2) SLAV. : SLAVE MODE: (the buttons of "SET、 UP/DOWN" are invalid)
- (3) SU.00: SOUND ACTIVE MODE: You can revise the sensitivity of sound trigger from SU00 to SU31 by press the button "UP/DOWN" .(the button of "SET" is invalid)
- (4) Pr.01 : BUILT-IN PROGRAMS MODE, Pr.01 is program 1, it is used to play the letters, numbers, or symbols you inputted. Instructions for this mode:

- Press "SET" once and it displays the program of rd00-rd15. This corresponds to 16 banks of letters that may be programmed for future use. Press the buttons "UP/DOWN" to revise the program and it will be auto-saved. Each of these 16 banks may hold up to 30 letters, numbers, or symbols.
- Press "SET" twice and it displays "S.000". This corresponds to the speed of change, you can revise the speed from S.000 to S.100 by pressing the button of "UP/DOWN", "S.000" is the slowest, the parameter will be auto-saved after the button is depressed.
- Press "SET" three times and it displays "F.000", it is the speed of strobe. You can revise the speed of the strobe from F.000 to F.100 by pressing the button of "UP/DOWN",the "F.100" is the fastest, the parameter will be auto-saved after the button is depressed.
- Press "SET" four times and it returns to the displaying the active program, like "Pr01".

"Pr02-Pr17" are the built-in programs. Following the above procedure, you can revise the speeds of the change and strobe by pressing the button "SET".

- (5) AUTO: AUTOMATIC MODE, it cycle through the Built-in programs from "pr02" to "pr17".

- Press "SET" once and it displays "S.000", it is the speed of auto-play, you can revise the speed from S.000 to S.100 by pressing the button of "UP/DOWN", "S.000" is the slowest, the parameter will be auto-saved after loosed the button.
- Press "SET" twice and it displays "n.000",it is the times of repetition run for each program. Such as "n.005", it is means that it will auto-play the next program after each program run 5 times. you can revise the number from "n.001" to "n.100" by pressing the button of "UP/DOWN", the parameter will be auto-saved after

loosed the button.

- Press “SET” four times and it returns to the displaying “AUTO”.

2. Operation of the Remote Control

- 1) Plug the OPTO-SENSOR in the “IrDAIN” plug
- 2) The OPTO-SENSOR should be located in a place where it will be in line of sight to the remote.
- 3) The functional distance of the remote is up to 10 meters (30 feet).
- 4) Aim the remote at the OPTO-SENSOR, not the light body.
- 5) The keys of remote:
 - a) “BLACK OUT”: shutter
 - b) “A” : auto-run model
 - c) “SA”: sound active model
 - d) “D”: DMX model
 - e) “S”: set the DMX address from “d001” to “d512” by pressing the number lock of “0-9.”
 - f) “←”: delete
 - g) “PROG”: Built-in programs run model, you can elect the programs by pressing the button of “UP/DOWN”.
 - h) “SL”: slave model
 - i) “F”: flash (strobe), you can revise the speed of flash by pressing the button of “UP/DOWN” when it is Built-in programs run model.
 - j) “SP”: speed of run, you can revise the speed of run by pressing the button of “UP/DOWN” when it is Built-in programs run model and auto-run model.
 - k) “+UP/-DOWN”: it is used elect the program, sound active ,flash, and speed.
 - l) “E”: EDIT, it is used to input the symbols edited by yourself.
 - m) “1” : Caps Lock.
 - n) “2”: input the letter of “A (a) 、 B (b) 、 C (c) 、 。 、 2”.
 - o) “3”: input the letter of “D (d) 、 E (e) 、 F (f) 、 , 、 3”.

- p) "4": input the letter of "G (g) 、 H (h) 、 I (i) 、 ? 、 4".
- q) "5": input the letter of "J (j) 、 K (k) 、 L (l) 、 ! 、 5".
- r) "6": input the letter of "M (m) 、 N (n) 、 O (o) 、 、 、 6".
- s) "7": input the letter of "P (p) 、 Q (q) 、 R (r) 、 S (s) 、 7".
- t) "8": input the letter of "T (t) 、 U (u) 、 V (v) 、 8".
- u) "9": input the letter of "W (w) 、 X (x) 、 Y (y) 、 Z (z) 、 9".
- v) "0" input the letter of "0 、 1、 blank"
- w) "↓": enter .

3. PS/2 Keyboard Functioning

- 1) Unplug DMX cable if applicable. Set in any mode besides DMX or Slave.
- 2) Use the standard PS/2 key board
- 3) Plug the standard PS/2 board in the PS/2 plug.
- 4) Press the button "Ctrl" + "E", it will enter the edit model.
- 5) You can input at most 30 symbols.
- 6) "←": delete
- 7) "Esc": exit
- 8) "↓": enter .

8. Operating Instructions

➤ Master/Slave

Master : The master should always working as a master as long as it is not set in a DMX or Slave mode. It will send out the signal so that the slaves units are synchronous with it. To ensure the master signal and DMX512 signals do not interfere with each other, should cut off the DMX512 signals.

Slave : The Slave must be set in DMX mode and the address code should be A001, to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

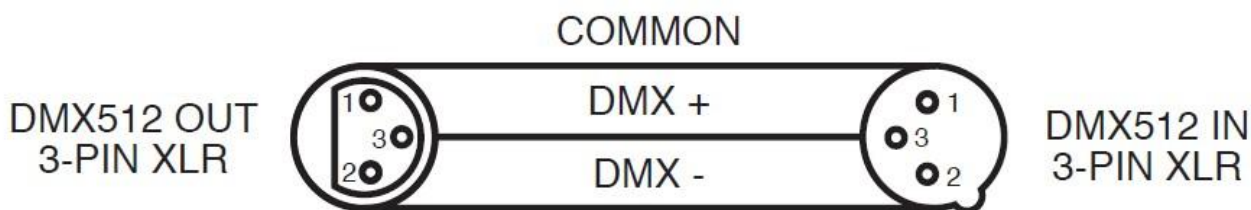
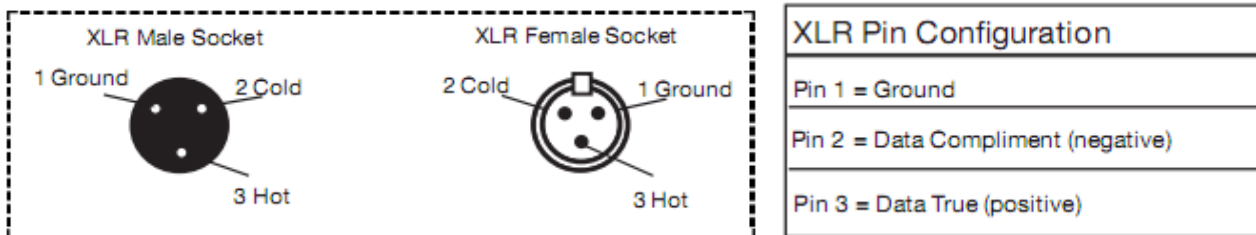
Note: This product uses input and output power cord 0.75 mm²copper core wire, power line in series, when 220V AC should less than 35 lights, and 110V AC less than 20 lights! ! !

9.XLR cable Connections

➤ XLR cable : (DMX Cable)

XLR/DMX are connected male to female, as shown below:

pin 1:ground, pin 2: negative signal, pin 3: positive signal



Note : In order to avoid failures and interference with signal transmission, use a terminator plug. Between pins 2 and 3, connect a resistance 120Ω (1/4W) at the end of the DMX connecting as below:



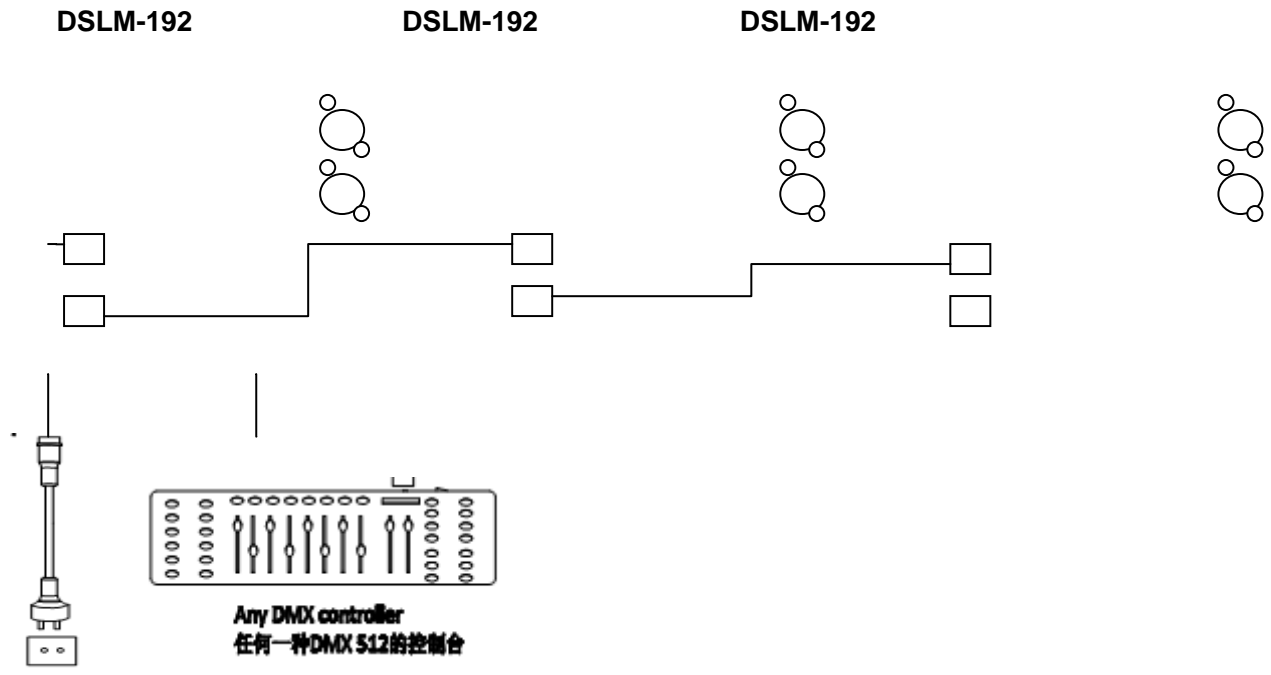
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➤ Conversion between 3-pin and 5-pin XLR

If the output cable of DMX 512 controller is the 5-PIN, please use a 5-PIN to 3-PIN adapter.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

10.Connection Diagram



11. Troubleshooting

Note : Only qualified professionals should attempt to service this unit!

Problem	Possible Solution/Cause
Can not turn on the light	<ul style="list-style-type: none"> ◆ Ensure the power plug is fully inserted ◆ Ensure the power switch for the lights is on ◆ Check the fuse continuity
DMX not functioning	<ul style="list-style-type: none"> ◆ Check the DMX cable is connect to the lights ◆ Check the DMX512 controller for signal output ◆ Check if the lights is in DMX mode (A001)
Display not bright	<ul style="list-style-type: none"> ◆ When initially powered, did the led flash one time? If so, the power source is normal. If not, please check voltage switch or voltage supply. ◆ Check if the power input to the IC board is normal ◆ Check if the cable connect to the display is loose ◆ Change the main board to see if it is normal. ◆ Change the display
LED's not coming on.	<ul style="list-style-type: none"> ◆ When connect to the electricity, did the led flash one time? If so, the power source is normal. If not, please check voltage switch or voltage supply. ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Change the display
Some of the LED's not coming on.	<ul style="list-style-type: none"> ◆ LED is connect in series first, then in parallel. Check to see if any LED's are loose. ◆ Use the multimeter to check if the led is powered or not. If not, please change the led. ◆ Check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the

	normal IC)
Single color LED's Always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

12. Technical Specifications

- Input voltage : 220V/50Hz (AC110V 60Hz)
- Power Consumption : 30W
- Lamp Type : High Power LED(Φ5)
- Lamp Spec : R (72PCS) 、 G (48PCS) 、 B (72PCS) 24rows * 8columns, arranged as dot matrix
- Control mode : DMX, Stand alone, Master/slave, Sound activation, auto-run, Built-in programs
- Projection distance: 30m
- DMX Channels : 3CH
- Beam Angle: 15°
- Size: : : 380*320*220mm
- Net Weight : 6.6KG