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User Manual for:
Professional DJ Multicolor LED Pin Spotlight With DMX

MODEL: LGSPOT1x

WARNING!

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER ON THIS SPEAKER. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO A QUALIFIED TECHNICIAN

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of "dangerous" voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans. Users should exhibit extra safety when this symbol appears in this instruction manual and follow all precautions as they are stated.

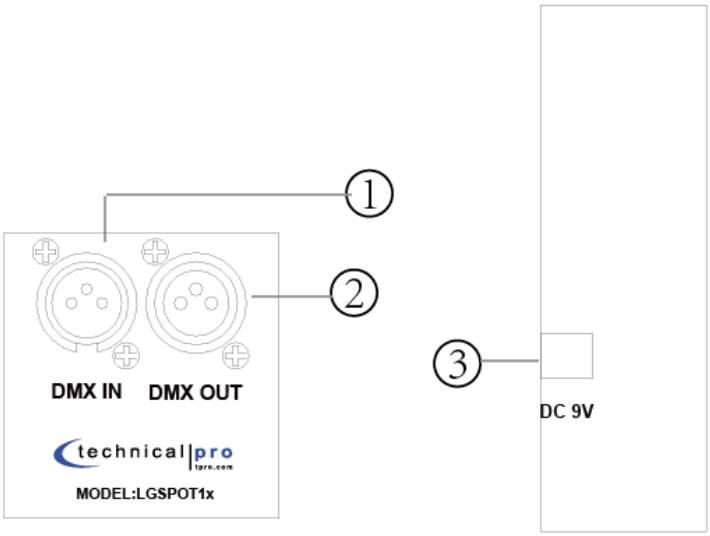
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this manual.

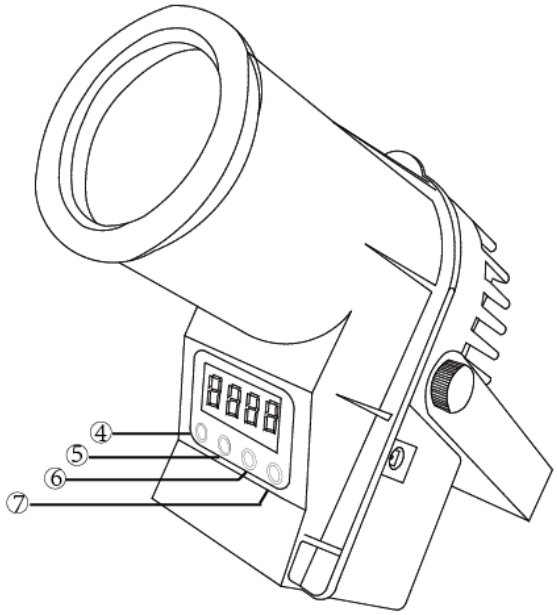
1- Read these instructions thoroughly before using this item.
2- Keep these instructions for future reference.
3- Heed all warnings.
4- Follow all instructions.
5- WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not store or operate this product near any liquids.
6- Clean only with a dry cloth.
7- Do not store or operate this product near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat.
8- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a round grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
9- Protect the all wires connected to this unit from being walked on or pinched, particularly plugs and the point where they exit from the unit. When removing the cord from the power outlet, remove it by holding the plug not by pulling the cord.
10- Unplug the unit during lightning storms or when unused for long periods of time.
11- When wiring this unit and all other equipment used in connection to this unit make sure that all of your equipment is turned OFF.
12- This product is intended for indoor use only! To prevent risk of fire or shock, do not expose fixture to rain or moisture.
13- Make sure the distance between the fixture and the lighted object is not less than 0.5 meters. Make sure there are no combustible or explosive objects 0.5 meters around the fixture. Be sure that no ventilation slots are blocked.
14- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse source.
15- Secure fixture to fastening device using a safety chain.
16- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate fixture at temperatures higher than this.
17- In the event of a 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 Technical Pro for the nearest authorized technical assistance center.
18- Never connect the device to a dimmer pack.
19- Make sure the power cord is never crimped or damaged.
20- Never disconnect the power cord by pulling or tugging on the cord.
21- Never carry the fixture directly from the cord. Always use the hanging/mounting bracket.
22- Avoid direct eye exposure to the light source while it is on.
23- Once installation and wiring is complete power on all your equipment with the volume and level controls turned DOWN. Once all the equipment is ON slowly raise the volume or level controls to their proper positions.
24- When grounding this unit, be sure to do so correctly, so as not to defeat the built-in grounding in this unit.
25- Before placing, installing, rigging, or suspending any product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.
26- Consult a licensed, Professional Engineer regarding physical equipment installation. Ensure that all local, state and national regulations regarding the safety and operation of equipment are understood and adhered to.
27- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Introduction

Congratulations and thank you for your purchase of this Technical Pro LED stage effect light. To get the most from your unit it is recommended that you review all of the information provided in this instruction manual before operating this equipment.

LGSPOT1x Rear Panel





1. DMX Input (XLR):DMX(Digital Multiplex) is the form of communication between controller and fixtures. Connect the DMX output from the controller to this input, When linking multiple LGSPOT1x. More details on the settings can be found below.

2. DMX Output (XLR): DMX(Digital Multiplex) is the form of communication between controller and fixtures. When linking multiple LGSPOT1x units simply connect the DMX OUTPUT to the DMX INPUT on the next unit.

3. DC Power Input: connect the adaptor to the power to power on the lights.

4. Menu Button: Press this button to switch between the multiple settings on the LG8xSEA. More details on the settings can be found below.

5. UP Button: press this button to increase the number on the display screen. Press and hold down this button to rapidly increase the number.

6. DOWN Button: Press this button to decrease the number on the display screen. Press and hold down this button to rapidly decrease the number.

7. Enter Button: Press this button to save your settings to memory.

AC Power:

This fixture runs on 110~220VAC, 50/60 Hz, DC9V adaptor, Before powering on the unit, make sure the line voltage to which you are connecting it is within the range of accepted voltages.

Always connect the fixture to a switched circuit. Never connect the fixture to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used only as a 0 to 100% switch.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating indicates its average current draw under normal conditions.

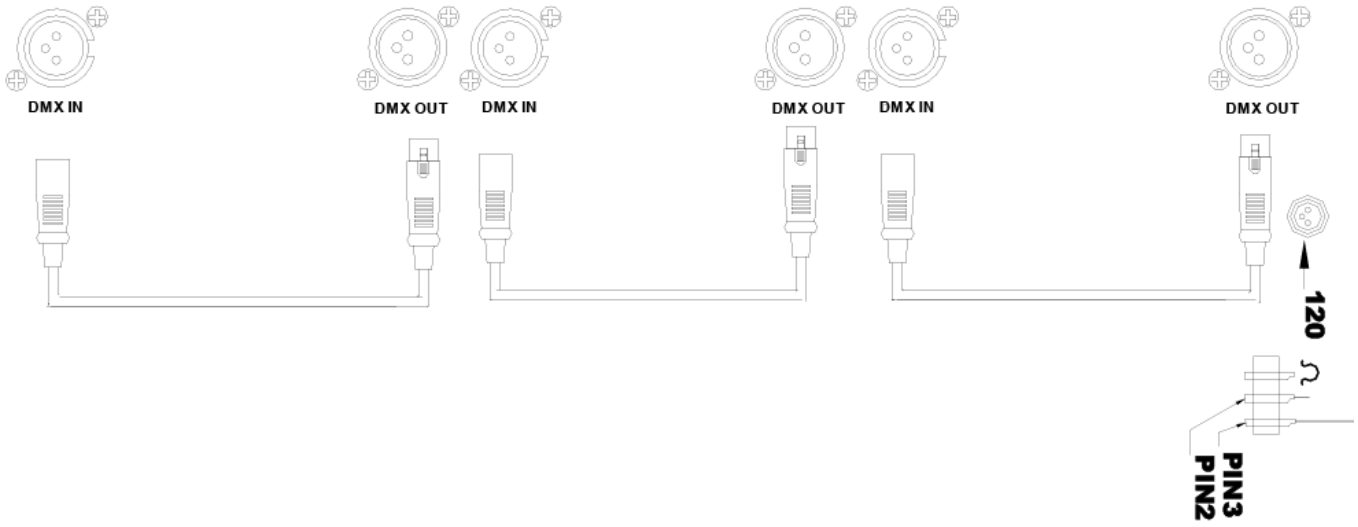
Always connect the fixture to a circuit with a suitable electrical ground.

The AC power cords supplied purposefully have 2 blades and one grounding prong. If your outlet is not equipped to handle this type of plug, do not attempt to forcefully plug this AC power cord into the outlet, and do not alter the plug so that it can fit in the outlet. The only course of action you can take is to find another outlet which is properly equipped to handle a grounded plug or have an electrician upgrade your electrical outlet. Be sure that the plug is well connected so that it does not disconnect in the middle of usage. If at any point in time the supplied AC power cord is punctured or damaged replace it with a new power cord from a local electrician.

Fixture Linking via XLR Input / Output:

You will need a serial data link to run light shows of one or more fixtures using a DMX controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.
***Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard, no more* than 32 fixtures should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.**

Maximum recommended serial data link distance: 500 m (1640 ft)
Maximum recommended number of fixtures on a serial data link: 32



What is DMX:

There are 512 channels in a DMX connection. Channels may be assigned in any manner. A fixture capable of receiving DMX will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.
DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+).

Maintaining the Fixture:

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.
Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.
The cleaning of 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 surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Clean the external optics at least every 20 days. Clean the fixture at least every 30/60 days. *Always dry the parts carefully after cleaning them. Never spin a fan using compressed air.*

LED Screen Display

Operating Modes:

A001: DMX512 mode

run0: clear, no effect:
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run0. press enter to confirm the choice.

run1:4color jump change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run1. press enter to confirm the choice.

run2:Red base, other 3 colors hop change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run2. press enter to confirm the choice.

run3:Green based, other 3 hop change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run3. press enter to confirm the choice.

run4:Blue based, other 3 hop change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run4. press enter to confirm the choice.

run5:White base, other 3 hop change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run5. press enter to confirm the choice.

run6:White color gradual slow change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run6. press enter to confirm the choice.

run7:White color gradual fast change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run7. press enter to confirm the choice.

run8:Red Green gradual change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run8. press enter to confirm the choice.

run9:Red Blue gradual change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose run9. press enter to confirm the choice.

runA:Blue Green gradual change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose runA. press enter to confirm the choice.

runb:RGB gradual change
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose runb. press enter to confirm the choice.

runC:RGB jump change:
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose runC. press enter to confirm the choice.

Sou1:Sound active mode, RGB LED on with strobe:
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose Sou1. press enter to confirm the choice.

Sou2:Sound active mode, RGB LED on:
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose Sou2. press enter to confirm the choice.

Sou3:Sound active mode, RGB strobe:
Press the menu button until runx (x stand for 0,1,2...9,a,b,c), you can use “up” or “down” to choose Sou3. press enter to confirm the choice.

Rxxx(x stand from 000 to 255):red LED from dark to bright:
Press the menu button until color, press enter to choose rxxx, press “up” or “down” to increase or decrease the no. to control the red color brightness. Press enter to confirm the choice.

gxxx(x stand from 000 to 255):green LED from dark to bright:
Press the menu button until color, press enter to choose gxxx, press “up” or “down” to increase or decrease the no. to control the green color brightness.Press enter to confirm the choice.

bxxx(x stand from 000 to 255):blue LED from dark to bright:
Press the menu button until color, press enter to choose bxxx, press “up” or “down” to increase or decrease the no. to control the blue color brightness.Press enter to confirm the choice.

yxxx(x stand from 000 to 255):white LED from dark to bright:
Press the menu button until color, press enter to choose yxxx, press “up” or “down” to increase or decrease the no. to control the white color brightness.Press enter to confirm the choice.

LEon/LoFF: LED screen on or LED screen off
Press the menu button until LEon or LoFF, press “up” or “down” to choose the LEon or LoFF to let the LED screen stay on or off.

LED Screen display:

Menu	Display	Function		Instruction
1	A001	DMX512（enter-switch to channel choose）		A001—A512
RUNX	No operation	RUN0	clear	run0
	Model 1	RUN1	4color jump change	run1
	Model 2	RUN2	Red base, other 3 colors jump change	run2
	Model 3	RUN3	Green based, other 3 jump change	run3
	Model 4	RUN4	Blue based, other 3 jump change	run4
	Model 5	RUN5	White base, other 3 jump change	run5
	Model 6	RUN6	White color gradual slow change	run6
	Model 7	RUN7	White color gradual fast change	run7
	Model 8	RUN8	Red Green gradual change	run8
	Model 9	RUN9	Red Blue gradual change	run9
	Model 10	RUNA	Blue Green gradual change	runA
	Model 11	RUNb	RGB gradual change	runb
	Model 12	RUNC	RGB jump change	runC
	Sound model 1	SOU1	Sound(LED on+strobe)	Sou1
	Sound model 2	SOU2	Sound(LED on)	Sou2
	Sound model 3	SOU3	Sound(Strobe)	Sou3
color	r000	0～255	Red From dark to dimmer	r000—r255
	g000	0～255	Green From dark to dimmer	g000—g255
	b000	0～255	Blue From dark to dimmer	b000—b255
	y000	0～255	White From dark to dimmer	y000—y255
color		Color dimmer (enter-switch different color)		CoLr
leon/loff		Light free or close, when operation the lights, the display will be light or be off.		LoFF—LoFF

(Choose any mode, then press "ENTER" to confirm the choice.)-

6 Channel Mode (DMX):

When use the LGSPOT1x together with a DMX controller, set the button to display A001, then use the DMX controller to adjust the settings of CH1, CH2, CH3 and CH4 to show different effect.

DMX 512 Function:

Channel	Value	Description
CH1	0~8	NULL
	9~134	RGBW from dark to bright
	135~255	Flash(with CH3, CH4,CH5)
CH2	0	NULL
	1~255	Red from dark to bright(work with CH1=255)
CH3	0	NULL
	1~255	Green from dark to bright(work with CH1=255)
CH4	0	NULL
	1~255	Blue from dark to bright(work with CH1=255)
CH5	0	NULL
	1~255	White from dark to bright(work with CH1=255)
CH6	0	NULL
	1~111	RGBW color hop change
	112~206	RGBW color gradual change
	207~223	RGBW color hop change
	224~249	RGBW full color bright
	250~255	Sound-Activated

Technical Parameters:

LED Light	Red/Green/Blue/White
LED source:	1pc*10W (RGBW 4in one)
System Port	DMX512 input and output port
Control Mode	Auto, Sound-Activated, DMX512, Master-slave
Demo Effect	255 grade high brightness level,0-100% linear dimming.
Power Supply	AC110V
Power	15W
Product dimension	3.15''X5.1''X4.7''
DMX channel	6CH

Master / Slave Settings

When two or more fixtures are connected via DMX connectors the fixtures can be programmed to allow one fixture (master) to control the other fixtures (slave). In this setup making a change to the master fixture would change all the slave fixtures as well.
Set the master fixture to the desired setting. Then set ALL of the slave fixtures to A001.

Note: When using the master / slave setup only ONE unit can act as the master. ALL other fixtures must be set to A001.
When using the master / slave setup the fixtures can't be connected to a DMX controller as it would interfere with the master / slave settings.