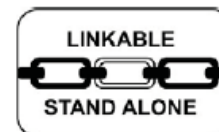


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LP64LED-FLAT
Slim Par 64 LED Light DMX Controllable with Remote

User Manual



Please read the instructions carefully prior to use

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10. DMX General Information

The DMX512 digital communication protocol was introduced to control stage lighting and special effects.

The DMX standard features 512 available channels, and they are assignable in any sequence that conforms to the user's needs. Each DMX-capable fixture requires one or more sequential channels. A starting address, which indicates the first control channel reserved for that particular fixture, must be assigned to the fixture before the controller can recognize it. DMX controllable fixtures may vary in the number of channels they require, depending on the fixtures features and/or functionality.

Channels should never be permitted to overlap; otherwise, for example, a fader that controls blue output on one fixture may cause strobing or dimming on an adjacent, incorrectly assigned fixture. Multiple fixtures of the same type that use an identical starting address will function in unison. Fixtures assigned properly spaced starting addresses will operate individually, but a DMX controller with sufficient channels can be configured to run these same fixtures either combined or independently.

The sequence in which DMX fixtures are connected has no effect on how a controller communicates with each individual lighting fixture. Although 3-pin XLR mic cables may be used to connect DMX fixtures over short runs, longer distances will introduce data errors due to the mic cable's incorrect impedance. For best results, Talent Sound & Lighting recommends the use of correct 120 ohm, low-capacitance, twisted pair cable designed for the DMX512 protocol. It is also suggested that a termination resistor plug be used on the output connector of the last fixture in an array of DMX instruments. This resistance ensures proper data transmission.

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10. DMX General Information

1. Safety Instructions

- Please keep this User Manual for future consultation. If you sell the fixture, be sure to include this instruction booklet to ensure proper maintenance and use.
- Unpack and check carefully for transportation damage before using the fixture.
- Before operating, ensure that the power supply voltage and frequency match the power of your electrical system.
- It's important to connect the yellow/green conductor to ground to avoid electric shock.
- Disconnect main power before servicing and maintenance.
- Use a safety cable when permanently mounting this fixture. Always handle the fixture with care.
- Maximum ambient temperature is 104° F.
- In the event of a serious operating problem, stop using the fixture immediately. Please contact the dealer from whom you purchased the fixture, the nearest authorized technical repair facility, or Talent Sound & Lighting directly.
- Do not connect the device to any dimmer pack.
- Do not touch exposed wires during use, as there might be a hazard of electrical shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The fixture must be replaced if there is visible damage to the housing.
- Do not look directly at the LED light beam while the fixture is on.

Warning: Please read the instructions carefully. They include important information about installation, operation, and maintenance. Do not connect more than 32 units in series (daisy-chaining) on a single power circuit.

Caution: There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs yourself. In the unlikely situation your unit may require service, please contact your dealer or Talent Sound & Lighting.

9. Troubleshooting

Here are some troubleshooting suggestions:

A. The fixture does not work, there is no light output.

- 1.) Check the connection of power and main fuse.
- 2.) Measure the voltage output on your power receptacle to ensure proper voltage.

B. Fixture does not respond to DMX control.

- 1.) DMX LED should be on. If not, check DMX connectors and cables for proper connection.
- 2.) If DMX LED is on but not responding to a channel, check the DMX address settings and DMX polarity.
- 3.) If you have intermittent DMX signal problems, check the pins on the cable connectors and on the fixture.
- 4.) Try to use a different DMX controller.
- 5.) Interference may occur if DMX cables are run alongside high voltage cables.

C. Fixture responds erratically to DMX control.

- 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 fixture. Set the fixture to the proper address.
- 3.) Use of microphone cables for DMX connections can cause errors

D. The fixture doesn't respond to sound.

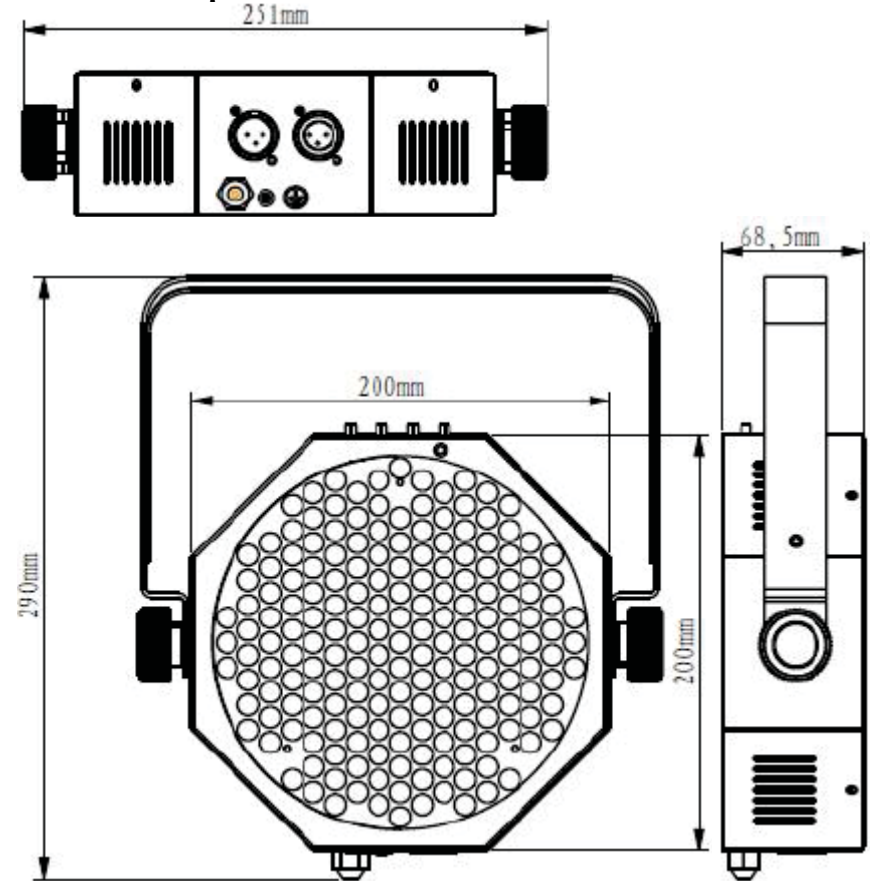
- 1.) Make sure the fixture is not set to receive a DMX signal.
- 2.) Check the fixture's internal microphone by tapping the microphone.

8.2 IR Remote Control Functions

- | | |
|----------------------|---|
| (1) Auto | Auto show |
| (2) Sound | Sound active |
| (3) DMX | DMX512 control, switch mode between address and channel. |
| (4) Black Out | Acts as a shutoff button when activated. |
| (5) Red | Red LEDs on |
| (6) Green | Green LEDs on |
| (7) Blue | Blue LEDs on |
| (8) White | Red, Green, and Blue LEDs are turned on |
| (9) + | Increase parameters |
| (10) - | Reduce parameters |
| (11) 0~9 | In DMX mode, the 0 through 9 buttons set DMX addresses on the fixture. When DMX is first selected, the 0~9 buttons change the address. Pressing the DMX button again allows you to change the channel mode. In Color mode, the 0~9 buttons can be used to input values directly to select custom colors. |
| (12) Jump | Jump color change mode |
| (13) Fade | Gradual change mode |
| (14) Color | Color mode, static colors ranging from 0 (off) to 255. If the program is not in Color mode, and you want to select a custom color, you must first press the Color button. Use numbered 0~9 buttons to manually input a value, and/or buttons (+) and (-) to adjust selection. As a general guideline, C042 = green; C126 = red; and C210 = blue. Values above, below, and between these values will be gradual mixtures of red, green, and blue, accordingly. |
| (15) Flash | Only in Auto, Fade, Jump, and COLOR modes. Press once for strobe mode, press again to return to the previous program. |

Note: Please make sure there is nothing between the remote controller and the fixture. Maximum distance for the remote to work is 10 meters.

2. Technical Specifications



- DMX channels: 3/5/7 selectable via digital display
- 181 Ultra Bright 10 mm LEDs (Red: 49, Green: 72, Blue: 60)
- 125 Static Colors/Dimmer/Strobe/Fade/Jump
- Auto, sound active, DMX, and master/slave modes
- Internal programs with sound activation
- 3-pin XLR in/out sockets for DMX control
- RGB color mixing
- Beam angle: $\pm 20^\circ$
- Power consumption: 20 watts
- Power input: AC 90V-250V, 50-60 Hz
- Dimension: 10.83" diameter x 4.13" deep
- Weight: 3.52 lbs.

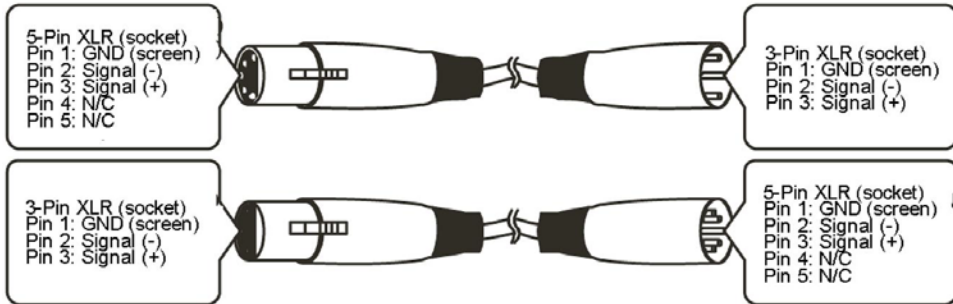
3. Installation

The unit should be mounted via its screw holes on its bracket. Always ensure that the unit is installed to avoid vibration while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10x this fixture's weight (35.2 lbs.) Always use a safety cable that can hold 12x the weight of the fixture.

4. How to Connect the Fixture

3-Pin and 5-Pin XLR DMX Connectors:

Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors into a 3-pin line, a cable adapter must be used. The chart below details the correct cable conversion.



8. IR Remote Control



8.1 IR Remote Control Keypad

7. DMX512 Configuration

DMX Channel Values (3-Channel Mode)

Channel	Value	Function
CH1	0-255	RED dimmer
CH2	0-255	GREEN dimmer
CH3	0-255	BLUE dimmer

DMX Channel Values (5-Channel Mode)

Channel	Value	Function
CH1	0-255	RED dimmer
CH2	0-255	GREEN dimmer
CH3	0-255	BLUE dimmer
CH4	0-255	Master dimmer
CH5	0-6	Dimmer mode
	7-65	Strobe from Slow to fast
	66-69	None
	70-128	Pulse strobe from slow to fast
	129-132	None
	133-191	Strobe fading in from slow to fast
	192-195	None
	196-255	Strobe fading out from slow to fast

DMX Channel Values (7 Channel Mode)

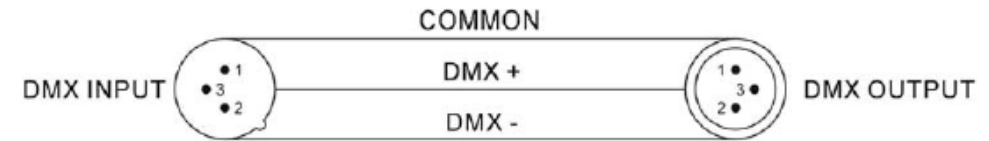
Channel	Value	Function
CH1	0-255	RED dimmer
CH2	0-255	GREEN dimmer
CH3	0-255	BLUE dimmer
CH4	0-255	Master dimmer
CH5 (CH7 < 60)	0-6	Dimmer mode
	7-65	Strobe from Slow to fast
	66-69	None
	70-128	Pulse strobe from slow to fast
	129-132	None
	133-191	Strobe fading in from slow to fast
	192-195	None
196-255	Strobe fading out from slow to fast	
CH5 (CH7 >= 60)	0-255	In stand alone mode, running speed from slow to fast
CH6 (Static color mode)	0-255	Static color select
CH6 (color change mode)	0-255	Strobe from slow to fast
CH7	0-59	Dimmer mode
	60-119	Static color mode
	120-179	Color jump change mode
	180-239	Color gradual change mode
	240-255	Sound active mode

For additional details about DMX operation, please review Section 10.

5. DMX512 Connections

DMX512 is a widely used protocol for intelligent lighting control, with 512 available channels. Even if you do not wish to operate your Talent lighting fixture via an outboard DMX controller, utilizing the master/slave mode will still require unit-to-unit connection by proper DMX cables.

Caution: Common microphone cables may be used to connect small numbers of DMX fixtures over short distances, but offer the risk of erratic operation. Use of correct DMX cables greatly reduces data errors caused by improper connection.



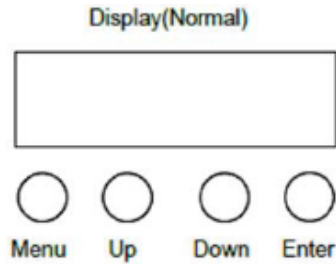
Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.



- If you are using a controller with 5-pin DMX output, use a 5-pin to 3-pin adapter cable.
- Connect fixtures together in a "daisy chain" by connecting the DMX output of the first fixture to the DMX input of the next fixture. This cable cannot be branched or split by a "Y" cable. Inadequate or damaged cables, bad solder joints, or corroded connectors can easily distort the signal, cause errors, and shut down the system. Never allow contact between the data common/shield connection (XLR Pin 1) and the fixture's chassis/electrical ground.
- The DMX output and input connectors are pass-through to maintain the DMX circuit if power to one of the units is disconnected.
- On the last fixture, the DMX output should be terminated with a terminator to reduce signal errors. Solder a 120 ohm 1/4 watt resistor between pin 2 (DMX-) and pin 3 (DMX+) on a 3-pin XLR plug and connect it to the DMX output of the last fixture.

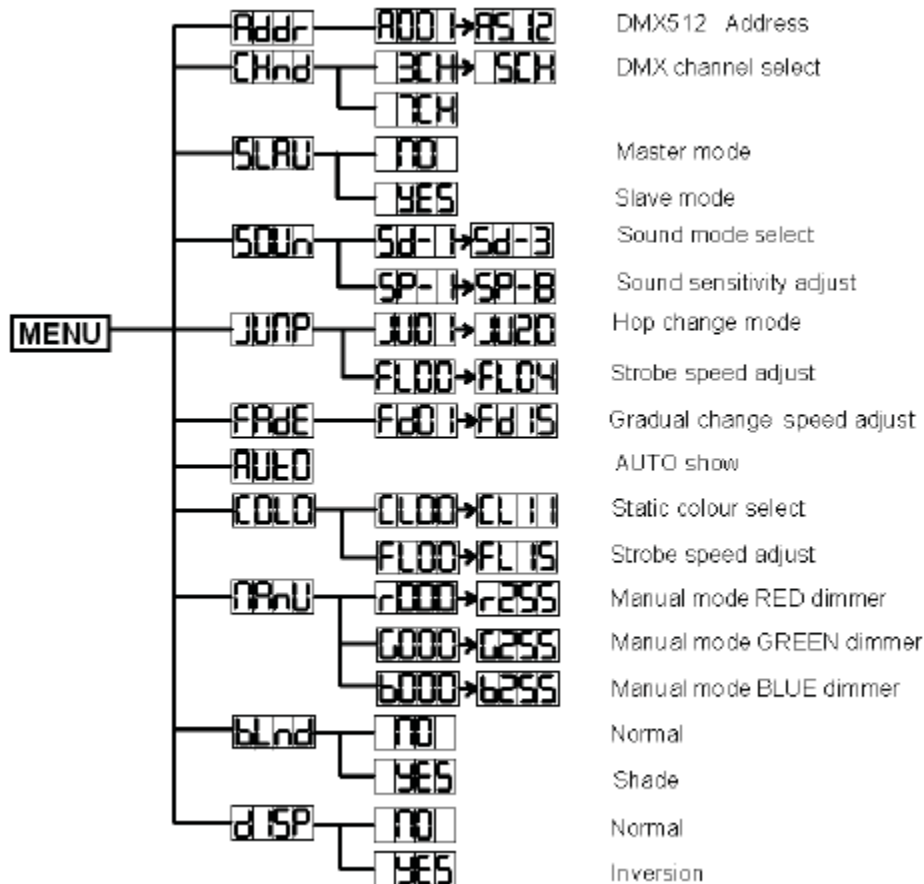
6. How to Set the Unit

6.1 Control Panel



Menu	To go forward in the selected function or go back the last layer menu
Up	To go forward in the selected function or increase parameters
Down	To go backward in the selected function or reduce parameters
Enter	To go into the next layer menu

6.2 Main Function



Your Talent Sound & Lighting fixture may be operated as a stand-alone device that runs on pre-programmed routines or sound activation, in master/slave mode with other devices, or via an external DMX512 controller. In DMX mode it is configurable to be controlled by 3, 5, or 7 channels.

Besides stand-alone operation, there are two main ways to control the fixture:

- Universal DMX control mode
- Master/Slave operation

A. Universal DMX controller

This fixture's DMX address can be set remotely by a universal DMX controller. First, you need to program two scenes into a chase, and then link the fixtures to the universal DMX controller. When you run the chase, the fixtures in the chain will set the series DMX address automatically. Each lighting fixture needs to have an address set when in DMX mode, to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1). Please refer to the following diagram to set the address for the first four units.



The numbers 1, 5, 9, and 13 indicate the starting address of each of the fixtures.

B. Master/Slave operation

The fixture allows you to link as many as 16 fixtures together and operate without a controller. In Master/Slave mode, the first fixture will control the others to give an automatic, sound activated, synchronized light show. This function is good for when you want an instant performance. The first, or master, fixture's DMX input will have nothing connected to it. Its output connects to the slave fixtures, which will be set in slave mode automatically.