RGBW LED DMX Mini Moving Head Stage Light 7 x 10W

Model: SSL2

User Manual

www.talentaudio.com
Thank you for purchasing the Talent SSL2 RGBW LED DMX Mini Moving Head Stage Light. Please read this user guide for safety and operation information before using the product.

Package Contents:
• 1 x Talent SSL2 Light
• 1 x IEC Power Cable
• 2 x Omega Clamp
• 1 x User Manual

Safety Instructions:
• Please keep this user manual for future consultation. If you sell the controller, 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.
• Disconnect main power before servicing and maintenance.
• Use a safety cable when permanently mounting this fixture. Always handle the fixture with care.
• 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 16 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.

Introduction:
The Talent SSL2 Mini Moving Head Light features seven 10 watt 4-in-1 RGBW LEDs that can produce a virtually unlimited color palate. In addition to auto program modes including auto-run, slave, and sound active mode, the SSL2 is fully controllable via standard DMX-512 protocol in either 9-channel or 14-channel configurations. With the ability to be truss-mounted or free-standing, the SSL2 is extremely flexible for use in multiple applications.

Features:
• Multi-color mixing using RGBW 4-in-1 LEDs produce an unlimited color palate
• Fully DMX controllable with additional program modes including auto, slave, and sound
• Tilt, pan, dimming, color mixing, speed, and strobe controls help deliver completely customizable light shows
• Can be truss mounted or free-standing for flexible application uses
Operation Instructions:

Hardware Setup:
The SSL2 can be mounted to lighting truss systems with rigging hardware (not included) or can function as a free standing fixture.

Fuse Replacement:
Turn the SSL2 off and remove the power cable. Remove the fuse holder using a flat head screwdriver and remove the fuse. Replace the fuse with an identical fuse. Insert the fuse back into the housing and reconnect power.

Master/Slave Fixture Linking:
- Connect the output (male) of the controller via a 3-pin DMX cable to the input (female) 3-pin connector of the first fixture.
- From the first fixture in the chain, connect the output 3-pin DMX cable to the input DMX connector of the next sequential fixture.
- Proceed in following manner for all fixtures in the chain.

Note: Max recommended serial date link distance: 1600 ft.
Note: Max recommended number of fixtures on a serial data link: 32 fixtures
Note: It is recommended to use a DMX terminator at the end of the fixture chain to prevent data errors and erratic operation.

Fixture Programming:
The SSL2 can be ran via a DMX controller as well as auto, sound active, or slave mode.

Display

MENU: Select menu options or exit menu controls
UP: Increases parameter
DOWN: Decreases parameter
ENTER: Confirms parameter or enters submenu options
Program Menu Displays:

DMX/Slave:

Your Talent SSL2 fixture may be operated as a stand-alone device that runs on pre-programmed routines, sound activated, in master/slave mode with other devices, or via an external DMX512 controller. In DMX mode it is configurable to be controlled by 9 or 14 channels of an outboard DMX controller.

- Press MODE until the DMX selection display shows up on the LED display.
- Select desired DMX channel in which the fixture shall operate (there are 512 useable channels; d001-d512).
- Use the UP and DOWN buttons to change channel.
- Press ENTER to confirm - LED display will show the DMX channel the light is set to.
Auto Mode:
The auto mode on the SSL2 has many pre-set programs that can be ran. To use auto mode see the instructions below:

- Press the MODE/ESC button to select desired program.
- To change auto mode program use the UP and DOWN buttons.
- To select program to be ran press ENTER to confirm - LED display will change to the programmed mode.

### Auto-Program Mode LED Display Chart

<table>
<thead>
<tr>
<th>Initial LED Display</th>
<th>Second LED Display</th>
<th>Sub-Mode LED Display</th>
<th>Sub-Mode Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAFA</td>
<td>Fast</td>
<td>-</td>
<td>Fast Auto Run</td>
</tr>
<tr>
<td>NSTS</td>
<td>SRUN</td>
<td></td>
<td>Sound Mode</td>
</tr>
<tr>
<td>NSTC</td>
<td>CRUN</td>
<td></td>
<td>Stand Alone Mode</td>
</tr>
<tr>
<td>SLAU</td>
<td>SON</td>
<td></td>
<td>Slave Mode</td>
</tr>
<tr>
<td>NASL</td>
<td>SLOU</td>
<td></td>
<td>Slow Auto Run</td>
</tr>
</tbody>
</table>

Sound Mode:
Sound mode responds and creates a light show based on the sounds the SSL2’s built-in microphone picks up. Each sound or change in song dynamic will change the fixture’s color and position. The SSL2 can act as the master or slave unit in sound mode.

Slave Mode:
Up to 32 units can be daisy chained together and be controlled by a singular master unit. Any fixture operating in slave mode in the daisy chain will run in sync with the master. The master needs to be running in master mode and at the start of the chain. The output of the DMX controller will be used as the input of the master, the output of the master will be used as the input of the next unit. The connections for further units will follow suit using the outputs as the input to the next fixture.
Pan Reverse:
- When the pan is reversed the fixture will respond to pan in an inverted control mode.
- Press the MODE/ESC button to navigate to Pan Reverse (PAN).
- To swap between pan (PAN) and pan reverse (RPAN) use the UP and DOWN buttons.
- To select desired pan press ENTER to confirm - LED display will change to the programmed pan direction.

Tilt Reverse:
- When the tilt is reversed the fixture will respond to tilt in an inverted control mode.
- Press the MODE/ESC button to navigate to Tilt Reverse (TIL).
- To swap between tilt (TIL) and tilt reverse (RTIL) use the UP and DOWN buttons.
- To select desired tilt press ENTER to confirm - LED display will change to the programmed tilt direction.

Display Inversion:
When the display is inverted the display will appear upside down. This is useful for reading the display if the fixture is hanging down from a lighting truss, or otherwise installed or used in an inverted manner.
- Press the MODE/ESC button to navigate to Display Inversion (DIS).
- To swap between normal (DIS) and inverted (RDIS) use the UP and DOWN buttons.
- To select desired display press ENTER to confirm - LED display will change to the programmed display orientation.

Pan Angle:
Pan angle sets the maximum horizontal pan threshold values. You can select from 540, 360, or 180 degrees of pan.
- Press the MODE/ESC button to navigate to Pan Angle (PA54, PA36, or PA18).
- To swap between 540° (PA54), 360° (PA36), or 180° (PA18) use the UP and DOWN buttons.
- To select desired pan angle press ENTER to confirm - LED display will change to the programmed pan angle.

Tilt Angle:
Tilt angle sets the maximum vertical tilt threshold values. You can select from 270, 180, or 90 degrees of tilt.
- Press the MODE/ESC button to navigate to Tilt Angle (TI27, TI18, or TI09).
- To swap between 270° (TI27), 180° (TI18), or 90° (TI90) use the UP and DOWN buttons.
- To select desired pan angle press ENTER to confirm - LED display will change to the programmed tilt angle.

Machine Reset:
Resets the current values to defaults.
- Press the MODE/ESC button to navigate to Machine Rest (REST).
- To reset press ENTER to confirm.

Factory Reset:
Resets the fixture to the factory defaults.
- Press the MODE/ESC button to navigate to Factory Rest (LOAD).
- To reset press ENTER to confirm.
Technical Specifications:

LEDs: .......................... 7 x 10W 4-in-1 RGBW
DMX Channels: .................. 9/14
Modes: ......................... DMX512, master/slave, sound activated, auto
Beam Angle: ........................ 25°
Strobe: .......................... 1-25 flashes per second with pulse effect
Pan: .............................. 540°, 360°, 180°
Tilt: .............................. 270°, 180°, 90°
Preset Programs: ......... 8 built-in, controlled via DMX controller
Control Panel: ............... LED Display
Control In/Out: ............... 3-pin DMX in & out connectors
Cooling System: ........... Efficient, low noise fan
Power Input: ............... 100-240 VAC, 50-60 Hz
Power Consumption: ... 80 watts
Dimensions: ................. 8.9" L x 8.9" W x 10.6" D
Weight: ........................ 7.7 lbs.

APPENDIX:
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.
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.

- 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.

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 pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Some manufacturers 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.

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5-Year Warranty
See talentaudio.com for details
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