SIRS-E DMX-DIM4

SIRS-E DMX-DIM4 4 Channel DMX Dimmer Pack User Manual

Model: DMX-DIM4
Brand: SIRS-E

1. Product Overview

The SIRS-E DMX-DIM4 is a versatile 4-channel DMX dimmer pack designed for professional lighting control. It features DMX512 control functionality and a standalone operation mode, offering flexibility for various lighting setups and configurations. Each channel can deliver a maximum load of 10A, with a total combined load for all four channels not exceeding 20A. The unit supports a maximum output capacity of 1200W per channel, with a total combined output of 2400W for all four channels. It includes 3-Pin XLR female and male connectors for DMX control and offers versatile configuration options with a choice of 1, 2, or 4 channels, along with 16 preloaded preset programs in standalone mode.



Figure 1.1: Front view of the SIRS-E DMX-DIM4 4 Channel DMX Dimmer Pack, showcasing its compact design and multiple power outlets.

2. Important Safety Instructions

To ensure safe operation and prevent damage to the unit, please observe the following safety precautions:

- Do not expose this unit to rain or moisture to prevent the risk of electrical shock or fire.
- Clearing memory often may cause deadly damage to the memory chip; be careful not to reinitialize your unit too frequently to avoid this risk.
- There are no user-serviceable parts inside. Do not attempt any repairs yourself; doing so will void your manufacturer's warranty.
- In the unlikely event your unit may require service, contact SIRS-E customer support.
- Ensure the unit is connected to a grounded 120V AC power source only.
- Do not exceed the maximum load capacity of 10A per channel or 20A total for all channels.

3. Product Components and Controls

Familiarize yourself with the various components and controls of your DMX-DIM4 dimmer pack:



Quick Start Guide

- When turned On, the device will start on chase mode with the option to select between P:01-16.
- Push the MENU button to adjust chase speed and dimmer manually.
- Push the MODE button to switch to DMX, then select the starting DMX address from A001-A512.
- Push the MENU button to select 1, 2 or 4 channel DMX dimmer pack function.

MODE	CH:04	CONTROL	CH:1 Output 1 CH:2 Output 2 CH:3 Output 3 CH4 Output 4
MODE	CH:02	CONTROL	CH:1 Output 1-2 CH:2 Output 3-4
MODE	CH:01	CONTROL	CH:1 Output 1-4

Product Features

- 4 channel DMX dimmer pack.
- Full manual control over each channel in DMX.
- 16 built-in preset programs.
- 1, 2 or 4 channel configuration option.
- Digital display for easy setting and control.
- 3-pin XLR female and male connectors for DMX control.
- Double output 110v grounded outlet per channel.
- Rope light connection output.
- On / Off main power switch.
- External fuse holder.

Technical Specifications

- 4 DMX Channels.
- 120V AC ~ 50-60Hz.
- 10A / Channel, total 20A Max.
- 1200W / Channel, total 2400W Max.

Advice

To ensure this product's durable and consistent performance, please read these Operations Instructions carefully and familiarize yourself with all the functions and basic operations.
The DMX-DIM4 has been pre-tested by SIRS-E® before shipment for guaranteed customer satisfaction. No assembly is required on the end-user side.

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Figure 3.1: Detailed view of the DMX-DIM4 front panel, showing the display and control buttons.



Figure 3.2: Rear view of the DMX-DIM4, highlighting the power input, DMX connectors, and fuse holders.

1. **110V Grounded Outlets:** Four individual outlets for connecting lighting fixtures.
2. **Green LED Indicators:** Illuminate when the corresponding channel is activated.
3. **LCD Display:** Multifunction display showing settings and running mode.
4. **MODE Button:** Switches between DMX mode and CHASE mode.
5. **MENU Button:** Activates different functions within DMX or CHASE modes.
6. **Button Up:** Increases the value of the controlling function.
7. **Button Down:** Decreases the value of the controlling function.
8. **Power Input** / **Power Cord:** 120V AC only power connection.
9. **Power Switch:** Controls the unit's main power.
10. **DMX Input:** Connects to a DMX control signal source.
11. **DMX Output:** Passes the DMX control signal to the next DMX device.
12. **ROPE LIGHT Connector:** Specific connector for rope light applications.
13. **External Fuse Holders:** For replacing fuses (10A250V 5x20mm internal fuses).

4. Setup and Installation

Proper setup is crucial for the DMX-DIM4's performance. Follow these steps for installation:

4.1 Power Connection

Before plugging in your unit, ensure the power source matches the required voltage (120V AC). Connect the power cord to a compatible wall outlet. Verify that the power switch (9) is in the OFF position before connecting to power.

4.2 DMX Connection

To use the DMX-DIM4 with a DMX controller:

1. Connect a DMX controller to the DMX Input (10) of your dimmer pack using a 3-pin XLR cable.
2. If connecting multiple DMX devices, use the DMX Output (11) to link to the next device in the chain.
3. Connect your lighting fixtures to the 110V grounded outlets (1) on the front of the unit.

5. Operating Instructions

The DMX-DIM4 offers two primary operating modes: DMX Control and Standalone Chase.

5.1 DMX Control Mode (A001-512)

In DMX mode, the unit responds to signals from an external DMX controller. The LCD display will show an 'A' character when in DMX mode.

1. Press the MODE button (4) until 'A' appears on the display.
2. Press the MENU button (5) to activate different functions.
3. Use the UP (6) and DOWN (7) buttons to adjust the DMX address (A001-A512). The dimmer pack's DMX address determines which DMX channels it will respond to.
4. You can configure the dimmer pack for 1, 2, or 4 channel operation. For example, CH:01 configures the output to all four outlets with one DMX channel. CH:02 groups outlets one and two, and three and four, each controlled by one DMX channel. CH:04 provides individual DMX control for each of the four outlets.
5. The DMX signal indicator will blink when a valid DMX signal is received.

5.2 Standalone Chase Mode (P01-16)

In standalone chase mode, the unit operates independently using 16 built-in programs. The LCD display will show a 'P' character when in Chase mode.

1. Press the MODE button (4) until 'P' appears on the display.
2. Use the UP (6) and DOWN (7) buttons to select one of the 16 preloaded chase programs (P01-P16).
3. Press the MENU button (5) to access settings for the selected program.
4. Adjust the chase speed (SP:01-99) and chase dimmer (d000-d100) using the UP (6) and DOWN (7) buttons.
5. The selected program will run continuously, controlling the connected lights.

6. Maintenance and Care

To ensure the longevity and optimal performance of your DMX-DIM4 dimmer pack, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Fuse Replacement:** If a channel or the entire unit loses power, check the external fuse holders (13). Replace blown fuses with the correct type and rating (10A250V 5x20mm internal fuses). Always disconnect power before replacing fuses.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Inspection:** Periodically inspect power cords and DMX cables for any signs of damage. Replace damaged cables immediately.

7. Troubleshooting Guide

If you encounter issues with your DMX-DIM4, refer to the table below for common problems and their solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power from outlet; Power cord damaged; Blown fuse; Power switch off.	Check power outlet; Inspect/replace power cord; Check/replace fuses; Ensure power switch is ON.
No DMX signal detected (DMX indicator not blinking)	DMX cable faulty/disconnected; DMX controller not sending signal; Incorrect DMX address.	Check DMX cable connections; Verify DMX controller operation; Set correct DMX address on dimmer pack.
Channels not responding in DMX mode	Incorrect DMX address; DMX channel configuration mismatch; Faulty DMX cable.	Verify DMX address and channel configuration (1, 2, or 4 channels); Test with a different DMX cable.
Lights not dimming/responding in standalone chase mode	Incorrect chase program selected; Chase speed/dimmer set to extreme values.	Select a different chase program; Adjust chase speed and dimmer settings.
Individual channel not working	Overload on channel; Internal component failure.	Reduce load on channel (ensure it's below 10A); If problem persists, contact customer support.

8. Technical Specifications

Specification	Value
Model Number	DMX-DIM4
Input Voltage	120V AC, 50-60Hz
Channels	4 Channels (configurable to 1, 2, or 4)
Max Load Per Channel	10A
Total Max Load	20A
Max Output Per Channel	1200W
Total Max Output	2400W
Control Protocol	DMX512
Connectors	3-Pin XLR (Input/Output), 110V Grounded Outlets
Dimensions	10.7 x 6.7 x 2.4 inches
Item Weight	0.634 ounces

9. Warranty and Customer Support

SIRS-E is committed to providing high-quality products and excellent customer service. For any questions, technical assistance, or warranty inquiries, please contact us using the information below.

This product has been pre-tested by SIRS-E before shipment to guarantee customer satisfaction. No assembly is required on the end-user side.

Contact Information:

Address: 3307 West St. Rosenberg, TX 77471, USA

Phone: (281) 324-0908

Website: sirs-e.com

For a downloadable PDF version of this user manual, please visit:SIRS-E DMX-DIM4 User Manual (PDF)

Ask a question about this manual

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