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SHEHDS DMX512 DJ Controller



SHEHDS DMX512 DJ Controller Instruction Manual

Model: Sunny 512 DMX512 Controller

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your SHEHDS DMX512 DJ Controller. Please read this manual thoroughly before using the device to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

2. SAFETY INFORMATION

- **Power Supply:** Ensure the power supply voltage matches the requirements specified on the device. Use only the provided power cable.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Keep the device away from water, moisture, and high humidity environments.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Servicing:** Do not attempt to repair or modify the device yourself. Refer all servicing to qualified personnel.
- **Fuses:** Replace fuses only with the same type and rating as specified.

3. PRODUCT OVERVIEW

The SHEHDS DMX512 DJ Controller (Sunny 512) is designed for controlling DMX-compatible stage lighting equipment. It features 512 channels, capable of managing up to 32 intelligent computer lights, each with 16 channels. The controller allows for programming and switching between various lighting effects and scenes with ease.

3.1 Front Panel Layout



Figure 3.1: Front panel of the SHEHDS DMX512 DJ Controller, showing controls for power, blackout, lamp, scanner selection, channels, speed, scene, chase, environment, edit functions, and LCD display.

The front panel includes:

- **Power Switch:** Main power control.
- **Blackout Button:** Instantly turns off all DMX output.
- **Lamp Button:** Controls the work lamp.
- **Scanner Selection:** Buttons for selecting groups of DMX fixtures (e.g., 1-16, 17-32).
- **Channel Faders:** 16 faders for adjusting individual DMX channel values.
- **Speed Fader:** Adjusts the speed of chases or effects.
- **Scene Keys:** Buttons for storing and recalling programmed scenes.
- **Chase Keys:** Buttons for storing and recalling programmed chases.
- **Environment Keys:** Buttons for storing and recalling environmental settings.
- **Edit Functions:** Buttons for editing scenes, chases, and other parameters (SET, EDIT, DELETE, ADD, ENTER/SWITCH).
- **LCD Display:** Shows current settings, channel values, and menu options.

3.2 Rear Panel Connections



Figure 3.2: Rear panel of the SHEHDS DMX512 DJ Controller, showing DMX512 Input/Output, Audio Input, Work Lamp Fuse, Power Input, and Mains Fuse.

The rear panel provides the following connections:

- **DMX512 Output 1 & 2:** Three-pin XLR connectors for DMX signal output to lighting fixtures.
- **DMX512 Input:** Three-pin XLR connector for DMX signal input (if applicable for master/slave configurations).
- **Audio Input:** For connecting an audio source to enable music-triggered effects.
- **Work Lamp Fuse:** Fuse for the optional work lamp.
- **Power Input:** IEC power connector for the main power supply.
- **Mains Fuse:** Main power fuse for the unit.

4. SETUP

Follow these steps to set up your DMX controller:

1. **Placement:** Place the controller on a stable, flat surface, ensuring adequate ventilation around the unit.
2. **Power Connection:** Connect the provided power cable to the **Power Input** on the rear panel (Figure 3.2) and then to a suitable power outlet. Do not power on the unit yet.
3. **DMX Device Connection:** Connect your DMX-compatible lighting fixtures (e.g., fog lights, par lights, moving head lights) to the **DMX512 Output 1** or **Output 2** using standard three-pin DMX cables. Ensure proper DMX termination if using a long chain of fixtures.
4. **Audio Input (Optional):** If you plan to use music-triggered effects, connect an audio source (e.g., mixer, media player) to the **Audio Input** on the rear panel.

5. **Power On:** Once all connections are secure, switch the **Power Switch** on the front panel to the 'ON' position. The LCD display should illuminate.

5. OPERATING INSTRUCTIONS

This section details the basic operation of the SHEHDS DMX512 DJ Controller.

5.1 Understanding the Control Panel

Refer to Figure 3.1 for the layout of the front panel controls.

- **Scanner Selection:** Use the 'SCANNER' buttons (e.g., 1-16, 17-32) to select which group of DMX fixtures you want to control. The controller supports up to 32 fixtures, each assigned 16 DMX channels.
- **Channel Control:** The 16 'CHANNELS' faders allow you to adjust the DMX values for the currently selected fixture's channels. Move a fader up to increase the value (e.g., brightness, color, movement) and down to decrease it.
- **LCD Display:** The bright LCD display shows the current DMX channel values, selected scanner, scene/chase number, and menu options during programming.

5.2 Programming Scenes

A scene is a static lighting state. To program a scene:

1. Select the desired 'SCANNER' group.
2. Adjust the 'CHANNELS' faders to achieve the desired lighting effect for the selected fixtures.
3. Press the 'EDIT' button.
4. Select an empty 'SCENE' button (1-16) to store the scene. The LCD display will confirm storage.
5. Repeat for other scenes.

5.3 Programming Chases

A chase is a sequence of scenes that play in order. To program a chase:

1. Program the individual scenes you wish to include in the chase (refer to Section 5.2).
2. Press the 'EDIT' button.
3. Select an empty 'CHASE' button (1-16).
4. Use the 'ADD' button to add previously programmed scenes to the chase in the desired order.
5. Adjust the 'SPEED' fader to control the playback speed of the chase.
6. Press 'EDIT' again to exit programming mode.

5.4 Music Mode

The controller features a built-in amplifier for music mode. When an audio source is connected to the **Audio Input**, the controller can synchronize lighting effects with the music beat. Activate music mode using the dedicated 'MUSIC' button on the front panel.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DMX controller.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.

- **Fuse Replacement:** If the unit fails to power on or a specific function stops working, check the fuses on the rear panel (**Work Lamp Fuse, Mains Fuse**). Disconnect power before replacing any fuse. Replace with fuses of the exact same type and rating.
- **Storage:** When not in use for extended periods, store the controller in a dry, dust-free environment.

7. TROUBLESHOOTING

If you encounter issues with your SHEHDS DMX512 DJ Controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller does not power on.	No power, faulty power cable, blown mains fuse.	Check power outlet. Ensure power cable is securely connected. Check and replace the Mains Fuse if blown.
Lights are not responding.	Incorrect DMX connection, incorrect DMX address on fixtures, fixtures not powered, DMX cable fault.	Verify DMX cable connections. Ensure fixtures are powered and set to the correct DMX address. Test with a different DMX cable.
LCD display is blank or unreadable.	Power issue, display fault.	Check power supply. If power is present and other functions work, contact support.
Scenes/Chases are not saving or recalling.	Incorrect programming steps, memory full.	Review programming steps in Section 5. Ensure you are in 'EDIT' mode when saving.

If the problem persists after attempting these solutions, please contact SHEHDS customer support.

8. SPECIFICATIONS

The following are the technical specifications for the SHEHDS DMX512 DJ Controller:

- **Model:** Sunny 512 DMX512 Controller
- **DMX Channels:** 512
- **Control Capacity:** 32 intelligent computer lights (16 channels per light)
- **Scenes:** Up to 48 scenes simultaneously
- **Chases:** Up to 4 chases simultaneously
- **DMX Output:** 3-pin XLR female
- **Audio Input:** Yes, with built-in amplifier for music mode
- **Display:** LCD Digital Display
- **Item Weight:** Approximately 16.81 pounds (7.62 kg)
- **Dimensions (L x W x H):** Approximately 22.25 x 19.31 x 8.5 inches (56.5 x 49 x 21.6 cm)



Figure 8.1: Approximate dimensions of the SHEHDS DMX512 DJ Controller (48.5cm x 41.5cm x 11cm, 8kg).

9. WARRANTY AND SUPPORT

SHEHDS products are designed for reliability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or visit the official SHEHDS website for contact information. When contacting support, please have your product model (Sunny 512 DMX512 Controller) and purchase date available.