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LightShark LS-1

LightShark LS-1 8-Universal Lighting Control System

Model: LS-1 | Brand: LightShark

1. INTRODUCTION

The LightShark LS-1 is an advanced 8-Universal Lighting Control System designed for professional lighting applications. It features a wireless, web-based user interface accessible from any smartphone, tablet, or computer, providing flexible control. The system integrates physical faders and encoders for tactile operation and includes an independent DMX engine capable of controlling up to eight DMX universes. Users can connect up to three devices simultaneously to create a comprehensive multi-screen control environment.

2. WHAT'S IN THE BOX

Upon unpacking your LightShark LS-1, please ensure all components are present and in good condition. The package should contain:

- LightShark LS-1 Control System Unit
- Physical faders and encoders (integrated)
- Device connection cables (e.g., power cable, USB cable)

3. SETUP

Follow these steps to set up your LightShark LS-1 system:

- Power Connection:** Connect the provided power cable to the 'POWER' input on the rear panel of the LS-1 unit. Plug the other end into a suitable power outlet (90-264 VAC / 35W). Ensure the power switch is in the 'OFF' position before connecting.
- DMX Output:** Connect your DMX lighting fixtures to the 'DMX 1' and 'DMX 2' 5-pin XLR output ports on the rear panel. The LS-1 supports up to 8 DMX universes.
- Network Connection:** For wired network access, connect an Ethernet cable from your network router or switch to the 'ARTNET / LAN' port. For wireless access, ensure the Wi-Fi antenna is securely attached to the designated port on the rear panel.
- USB Data:** Use the 'DATA' USB ports for connecting external storage devices or other compatible accessories.
- Power On:** Flip the 'POWER' switch to the 'ON' position. The system will initiate its startup sequence.



Figure 3.1: Rear panel connections of the LightShark LS-1. This image displays the power input, DMX outputs (5-pin XLR), LAN/ArtNet port, USB data ports, and the Wi-Fi antenna connection point.

4. OPERATING INSTRUCTIONS

The LightShark LS-1 offers flexible control through its web-based interface and integrated physical controls.

4.1. Accessing the Web-Based User Interface (UI)

1. **Wireless Connection:** On your smartphone, tablet, or computer, connect to the Wi-Fi network broadcast by the LS-1 (SSID and password typically found on the unit or in initial setup documentation).
2. **Wired Connection:** Ensure your device is connected to the same local area network as the LS-1 via the 'ARTNET / LAN' port.
3. **Launch Browser:** Open a web browser (e.g., Chrome, Firefox, Safari) and enter the IP address of the LS-1 (refer to the initial setup guide or network settings for the default IP). The LightShark UI will load, allowing you to control your lighting system.

4.2. Using Physical Controls

The LS-1 features a dedicated control surface with physical faders, encoders, and buttons for direct manipulation of lighting parameters.

- **Faders:** Adjust intensity levels, playback cues, or other assigned parameters.
- **Encoders:** Rotate to fine-tune values for attributes such as color, position, or effects.

- **Buttons:** Trigger specific functions, select fixtures, or navigate through menus.

The physical controls are seamlessly integrated with the web-based UI, providing a hybrid control experience. Changes made on one interface will be reflected on the other.



Figure 4.1: LightShark LS-1 control surface. This image highlights the physical faders, rotary encoders, and various buttons used for direct control of lighting parameters.

4.3. Multi-Screen Control

The LS-1 allows connection of up to three devices simultaneously. This enables a multi-screen setup where different aspects of the lighting control (e.g., fixture control, cue lists, effects engine) can be displayed and managed on separate screens, enhancing workflow efficiency.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LightShark LS-1.

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, ensuring no liquid enters the device. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check the LightShark official website for firmware and software updates. Keeping your system updated ensures access to the latest features, bug fixes, and performance improvements. Follow the instructions provided with the update package carefully.
- **Environmental Conditions:** Operate the LS-1 in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight. Ensure adequate ventilation around the unit.

6. TROUBLESHOOTING

If you encounter issues with your LightShark LS-1, refer to the following common problems and solutions:

- **No Power:**
 - Ensure the power cable is securely connected to both the LS-1 and a working power outlet.
 - Verify the power switch on the rear panel is in the 'ON' position.
 - Check the power outlet with another device to confirm it is functional.
- **No DMX Output:**
 - Confirm DMX cables are correctly connected to the LS-1 and your lighting fixtures.
 - Verify that fixtures are addressed correctly and patched within the LightShark UI.
 - Check DMX settings within the LightShark UI to ensure universes are enabled and configured.
- **Cannot Connect to Web UI:**
 - If using Wi-Fi, ensure your device is connected to the LS-1's Wi-Fi network.

- If using a wired connection, ensure your device and the LS-1 are on the same network and the Ethernet cable is properly connected.
- Verify the IP address entered in the web browser is correct. Try clearing your browser's cache.
- Restart the LS-1 unit and your connecting device.

- **Physical Controls Unresponsive:**

- Ensure the unit is powered on and fully booted.
- If specific controls are unresponsive, try restarting the unit.
- Ensure no foreign objects are obstructing the movement of faders or encoders.

If problems persist after attempting these solutions, please contact LightShark customer support or your authorized dealer for further assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	LS-1
DMX Universes	8
Body Material	Plastic
Connector Type	5-pin XLR (DMX)
Item Weight	0.01 ounces
Power Input	90-264 VAC / 35W
First Available Date	March 25, 2019

8. WARRANTY AND SUPPORT

For information regarding the warranty coverage for your LightShark LS-1, please refer to the warranty card included with your product or visit the official LightShark website. Warranty terms and conditions may vary by region and retailer.

For technical support, service, or spare parts, please contact your authorized LightShark dealer or the LightShark customer support team. Contact details can typically be found on the manufacturer's website.