HQ-Power HQDB10001

HQ-Power DMX 4-Channel Splitter (Model HQDB10001) User Manual

Model: HQDB10001 | Brand: HQ-Power

1. Introduction

The HQ-Power DMX 4-Channel Splitter (Model HQDB10001) is designed to distribute a single DMX512 input signal into four isolated DMX512 outputs. This device ensures reliable signal transmission over longer distances and prevents signal degradation or interference between connected DMX devices. Its compact and robust design makes it suitable for various professional lighting applications.

2. Safety Instructions

- Read all instructions carefully before operating the device.
- Keep this manual for future reference.
- This device is intended for indoor use only. Do not expose it to rain or moisture.
- Ensure the power supply voltage matches the requirements specified on the device.
- Always disconnect the device from the power outlet before cleaning or servicing.
- Do not operate the device if the power cord is damaged.
- Avoid placing the device near heat sources or in direct sunlight.
- Do not attempt to repair or modify the device yourself. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the unit to prevent overheating.

3. Product Overview

Familiarize yourself with the various components and connections of your HQ-Power DMX 4-Channel Splitter.

Image 1: HQ-Power DMX 4-Channel Splitter. This image provides an angled view of the DMX splitter, showcasing its compact black housing and the various input and output ports on both the front and rear panels.

3.1 FRONT PANEL: DMX SIGNAL OUTPUTS

Image 2: Front Panel - DMX Signal Outputs. This image displays the front panel of the DMX splitter, featuring four 3-pin XLR DMX output ports, labeled 1 through 4. Each output port has an associated green LED indicator.

- **DMX Signal Output (1-4):** Four isolated 3-pin XLR outputs for connecting DMX-controlled lighting fixtures.
- **LED Indicators:** Green LEDs next to each output illuminate when a DMX signal is present on that channel.

3.2 REAR PANEL: POWER AND DMX INPUT/THRU

Image 3: Rear Panel - Power and DMX Input/Thru. This image shows the rear panel of the DMX splitter, including the AC power input, a 3-pin XLR DMX input, a 3-pin XLR DMX Thru output, and a 120R Terminal switch.

- **Power Input:** Standard IEC power connector for connecting the included power cable.
- **DMX Input:** 3-pin XLR connector for receiving the DMX512 signal from a DMX controller.
- **DMX Thru Output:** 3-pin XLR connector for passing the DMX input signal directly to another DMX device or splitter.
- **Terminal Switch (120R):** A switch to activate or deactivate the 120 Ohm DMX termination resistor.

4. Setup

1. **Unpacking:** Carefully remove the DMX splitter from its packaging. Inspect the device for any signs of damage during transit.
2. **Power Connection:** Connect the provided power cable to the IEC power input on the rear panel of the splitter and then to a suitable AC power outlet (100-240V~, 50/60Hz).
3. **DMX Input Connection:** Connect your DMX controller's output to the **DMX Input** (3-pin XLR) on the rear panel of the splitter.
4. **DMX Output Connections:** Connect your DMX-controlled lighting fixtures to the **DMX Signal Output** ports (1-4) on the front panel using standard 3-pin XLR DMX cables.
5. **DMX Thru (Optional):** If you need to daisy-chain the DMX signal to another DMX device or splitter, connect a DMX cable from the **DMX Thru Output** on the rear panel to the input of the next device.
6. **Termination:**
   - For the last device in a DMX chain, it is recommended to terminate the DMX signal with a 120 Ohm resistor to prevent signal reflections.
   - If this DMX splitter is the last device in your DMX chain (i.e., nothing is connected to the DMX Thru output and no other DMX devices are connected after the splitter's outputs), set the **Terminal Switch (120R)** on the rear panel to the 'ON' position.
   - If other DMX devices are connected after the splitter (via Thru or its outputs), ensure the termination is applied at the very end of the entire DMX chain, not necessarily on the splitter itself.

5. Operating

Once all connections are made and the device is powered on, the HQ-Power DMX 4-Channel Splitter operates automatically.

- **Power On:** Plug the power cable into a wall socket. The power indicator (if present, usually a small LED near the power input) will illuminate.
- **Signal Distribution:** The DMX signal received at the DMX Input will be amplified and distributed to all four DMX Signal Outputs.
- **Output Indicators:** The green LEDs next to each DMX output port will flash or illuminate steadily when a valid DMX signal is being transmitted through that output. This indicates proper signal flow.
- **Isolation:** Each output is electrically isolated, meaning a fault on one output line will not affect the other outputs or the DMX input.

6. Maintenance

- **Cleaning:** Disconnect the device from power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the device in a dry, dust-free environment, preferably in its original packaging.
- **Inspection:** Periodically check all cables and connectors for wear or damage. Replace any damaged components immediately.

7. Troubleshooting

Problem	Possible Cause	Solution
No power indicator light.	No power supply; faulty cable; faulty power outlet.	Check power cable connection; try a different power outlet; replace power cable if damaged.
No DMX signal at outputs (LEDs off).	No DMX input signal; faulty DMX input cable; DMX controller issue.	Verify DMX controller is sending a signal; check DMX input cable; test with a different DMX controller or cable.
Flickering lights or erratic behavior.	Improper DMX termination; faulty DMX cables; signal interference.	Ensure DMX termination is correctly applied at the end of the chain (120R switch); replace DMX cables; check for strong electromagnetic interference.
Only some outputs work.	Faulty output port; faulty DMX output cable.	Test the problematic output with a known good DMX cable and fixture; if issue persists, the unit may require servicing.

If troubleshooting steps do not resolve the issue, contact HQ-Power customer support or a qualified technician.

8. Specifications

Feature	Detail
Model	HQDB10001
Brand	HQ-Power
Input Voltage	100-240 V~, 50/60 Hz

Feature	Detail
Power Consumption	2 W, pf 0.3
DMX Channels	1 Input, 4 Outputs, 1 Thru Output
DMX Connectors	3-pin XLR (Input, Thru, Outputs)
Isolation	Galvanic isolation between input and outputs, and between outputs.
Termination	Built-in switchable 120 Ohm DMX terminator
Dimensions (L x W x H)	7.5 x 24.5 x 21.5 cm (approx. 2.95 x 9.65 x 8.46 inches)
Weight	1.65 kg (approx. 3.64 lbs)
Housing Material	Durable Metal Housing
Operating Environment	Indoor use only

9. Warranty and Support

Warranty information for the HQ-Power DMX 4-Channel Splitter (Model HQDB10001) is typically provided with your purchase documentation or on the product packaging. Please retain your proof of purchase for warranty claims.
For technical support, service, or further inquiries, please visit the official HQ-Power website or contact your local dealer.

Related Documents - HQDB10001

[HQ POWER VDPDP152 4-Channel DMX Dimmer Pack User Manual](#)
User manual for the HQ POWER VDPDP152 4-channel DMX dimmer pack, detailing features, safety, operation, and specifications for professional lighting control in venues like stages, discos, and theaters.

[HQPOWER VDP250MH6/2: 250W 6-Channel Moving Head Lighting User Manual](#)
Comprehensive user manual for the HQPOWER VDP250MH6/2, a professional 250W 6-channel moving head lighting fixture. Learn about its features, installation, DMX control, safety, and maintenance.

HQMX11009

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[HQ Power HQMX11009 DJ Mixer - User Manual](#)

User manual for the HQ Power HQMX11009 DJ mixer and MP3 player. Learn about its features, operation, safety guidelines, and technical specifications. Visit Velleman.eu for more information.

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[HQ Power HQRLXXXXX LED Rope Light User Manual and Installation Guide](#)

This user manual provides comprehensive guidance for the HQ Power HQRLXXXXX LED Rope Light. It details essential safety instructions, assembly procedures, installation steps, and operational guidelines to ensure safe and effective use of the product.

HQLE10040

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[HQLE10040 LED Moonflower User Manual](#)

Comprehensive user manual for the HQLE10040 LED Moonflower, covering safety instructions, installation, operation, cleaning, maintenance, and technical specifications. Learn how to safely set up and use your LED Moonflower for optimal performance.

HQDA10002

HQ POWER™

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[HQPower HQDA10002 Amplifier User Manual](#)

User manual for the HQPower HQDA10002 audio amplifier. Learn about setup, operation, safety, features, and technical specifications for optimal performance.