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› Black Lion Audio PBR XLR Patchbay Instruction Manual

## Black Lion Audio PBR XLR

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## INTRODUCTION

The Black Lion Audio PBR XLR Patchbay is a professional audio routing solution designed to streamline signal flow in recording studios, live sound setups, and broadcast environments. This 1U rack-mountable unit features high-quality XLR connectors, providing flexible and reliable connectivity for your audio equipment. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your PBR XLR Patchbay.



Figure 1: Front view of the Black Lion Audio PBR XLR Patchbay.

## SETUP

### Unpacking

Carefully remove the PBR XLR Patchbay from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage.

### Rack Mounting

The PBR XLR Patchbay is designed for standard 19-inch rack mounting. It occupies 1U (one rack unit) of space. Secure the unit using appropriate rack screws (not included) into an available rack space. Ensure adequate ventilation around the unit.

### Rear Panel Connections



Figure 2: Rear view of the PBR XLR Patchbay with input and output connectors.

The rear panel features 32 XLR female connectors. These are typically used for permanent connections to your studio equipment. Connect the XLR outputs from your preamps, interfaces, or other devices to the designated 'INPUT' XLR female connectors. Connect the XLR inputs of your recording devices, monitors, or other equipment to the designated 'OUTPUT' XLR female connectors. The patchbay provides a direct pass-through connection between corresponding input and output pairs.

## Front Panel Connections



Figure 3: Front panel detail showing female and male XLR connectors.

The front panel includes 12 XLR female connectors and 4 male XLR connectors (labeled 13-16). The female connectors mirror the rear panel inputs for convenient access. The 4 male XLR connectors serve as additional access points for temporary patching. These allow for quick connection of microphones, instruments, or other devices without needing to access the rear of your rack. Ensure all XLR cables are securely connected to prevent signal loss or intermittent connections.

## OPERATING INSTRUCTIONS

### Signal Flow and Routing

The PBR XLR Patchbay is designed for straightforward signal routing. Each rear panel 'INPUT' XLR female connector is directly wired to its corresponding 'OUTPUT' XLR female connector. This creates a transparent pass-through for your audio signals.

The front panel XLR female connectors provide convenient access to the rear panel inputs. For example, connecting a microphone to front panel 'INPUT 1' will route its signal to rear panel 'OUTPUT 1'.

### Using Front Panel Male XLR Connectors



Figure 4: Detail of front panel male XLR connectors.

The 4 male XLR connectors on the front panel (13-16) are intended for flexible patching. These can be used to:

- **Introduce New Signals:** Connect a microphone or instrument directly to one of these male XLRs to route its signal into your system.
- **Access Outputs:** Use these as temporary output points for monitoring or sending signals to external processors.

The patchbay provides a clear and organized way to manage your XLR connections, reducing wear and tear on your primary equipment's connectors.

## MAINTENANCE

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### Cleaning

To maintain optimal performance and appearance, periodically clean the exterior of the PBR XLR Patchbay with a soft, dry, lint-free cloth. Avoid using liquid cleaners, abrasive materials, or solvents, as these can damage the finish or internal components. Ensure all XLR connectors are free from dust and debris, which can affect signal integrity.

### Cable Management

Proper cable management is crucial for preventing strain on connectors, ensuring reliable signal flow, and maintaining an organized studio environment. Secure cables neatly using cable ties or wraps to avoid tangles and accidental disconnections. Avoid excessive bending or pulling on cables connected to the patchbay.

## TROUBLESHOOTING

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If you encounter issues with your PBR XLR Patchbay, refer to the following common troubleshooting steps:

- **No Signal:**

- Verify all XLR cable connections are secure at both the patchbay and your audio equipment.
  - Check the integrity of the XLR cables themselves by testing them with other equipment.
  - Ensure the correct input and output channels are being used on the patchbay and your connected devices.
  - Confirm that all connected audio equipment is powered on and functioning correctly.
- **Unwanted Noise or Hum:**
    - Unwanted noise can be introduced by faulty cables, ground loops, or external interference.
    - Test different XLR cables to rule out cable issues.
    - Ensure all audio equipment in your setup is properly grounded.
    - If using the front panel connectors, ensure they are securely connected and not introducing additional noise.
    - Separate audio cables from power cables to minimize electromagnetic interference.
- **Intermittent Connections:**
    - Loose or damaged XLR cables are a common cause of intermittent signal. Inspect all cables for damage and ensure they are fully seated in their respective connectors.
    - Gently wiggle cables at the connection points to identify loose connections.

## SPECIFICATIONS

The following table outlines the key specifications for the Black Lion Audio PBR XLR Patchbay:

Feature	Description
Model Name	PBR XLR
Brand	Black Lion Audio
Connector Type	XLR
Number of Connectors	32 (rear female), 4 (front male)
Faceplate Material	Black-anodized aluminum
Dimensions (L x W x H)	20.95 x 8.55 x 3.6 inches
Item Weight	1 pound (16 ounces)
Special Features	Audiophile-grade gold-plated XLR connectors, Front panel labels
Recommended Use	Audio signal routing in recording or live audio studios

## WARRANTY INFORMATION

Black Lion Audio products are covered by a limited manufacturer's warranty. The specific terms and duration of the warranty may vary by region and product. Please refer to the official Black Lion Audio website or your purchase documentation for detailed warranty terms, conditions, and registration procedures. Keep your proof of purchase for warranty claims.

## SUPPORT

For technical assistance, product inquiries, or customer support regarding your Black Lion Audio PBR XLR Patchbay, please visit the official Black Lion Audio website. You can typically find contact information, FAQs, and additional resources on their support pages. When contacting support, please have your product model and any relevant purchase information ready.