

Black Lion Audio PBR TRS3 LIT

Black Lion Audio PBR TRS3 LIT 48-point Gold-plated TRS Patchbay Instruction Manual

1. PRODUCT OVERVIEW

The Black Lion Audio PBR TRS3 LIT is a 48-point gold-plated TRS patchbay designed for premium studio and stage performance. It offers the flexibility of previous PBR TRS3 models with the addition of a vivid and customizable LED display. Featuring 96 total 1/4-inch TRS connectors, this patchbay provides audiophile-grade quality in a compact, easy-access rackmount form factor. Its robust construction includes a black-anodized aluminum faceplate and a reinforced-steel chassis, ensuring both elegance and durability. Per-module mode switches are rigorously tested for reliability over thousands of operations.

- **48-point Patchbay:** Provides 48 individual patch points for extensive audio routing.
- **Gold-plated TRS Connections:** Ensures high-quality signal transfer and durability.
- **Customizable LED Displays:** Offers visual feedback and customization via macOS/Windows.
- **96 TRS Connectors:** Total of 96 1/4-inch TRS connectors for comprehensive connectivity.
- **3-way Variable Operation Switches:** Each of the 48 patch points features a switch for Normal, Half-normal, or Thru operation.

2. SETUP

2.1 Physical Installation

The PBR TRS3 LIT patchbay is designed for standard rackmount installation. Secure the unit into an available rack space using appropriate rack screws. Ensure adequate ventilation around the unit.

2.2 Connecting Audio Devices

The patchbay features 48 input and 48 output 1/4-inch TRS connectors on the front panel. Connect your audio equipment (e.g., preamps, compressors, EQs, effects units) to the corresponding input and output jacks on the patchbay. Utilize high-quality TRS cables for optimal signal integrity.



Figure 1: Front view of the Black Lion Audio PBR TRS3 LIT 48-point Gold-plated TRS Patchbay, showing the 48 TRS input/output jacks and the LED display.



Figure 2: Rear view of the Black Lion Audio PBR TRS3 LIT 48-point Gold-plated TRS Patchbay, illustrating the connections for the 48 patch points and the 3-way mode switches.

3. OPERATION

3.1 Understanding Patchbay Modes

Each of the 48 patch points on the PBR TRS3 LIT features a 3-way switch on the rear panel, allowing you to select between three operational modes:

- **Normal:** In this mode, the top and bottom jacks of a patch point are internally connected. Inserting a cable into either the top or bottom jack breaks this internal connection, allowing you to reroute the signal. This is ideal for default signal paths that can be easily interrupted for patching.
- **Half-normal:** Similar to Normal, the top and bottom jacks are internally connected. However, inserting a cable into the top jack breaks the connection, while inserting a cable into the bottom jack does not. This allows you to 'tap' into a signal without interrupting its flow, useful for sending a signal to multiple destinations (e.g., a recorder and a monitor).
- **Thru:** In this mode, the top and bottom jacks are directly connected without any internal routing. This acts as a simple pass-through, useful for extending cable runs or creating fixed connections that are not intended for frequent re-patching.

Adjust these switches on the rear panel according to your desired signal flow and routing flexibility.

3.2 Customizable LED Display

The front panel features a customizable LED display. This display can be configured via macOS/Windows software to show channel labels, routing information, or other relevant data, enhancing visual organization and workflow in your studio. Refer to the Black Lion Audio website for software downloads and detailed instructions on customizing the display.



Figure 3: Close-up of the LED display and gold-plated TRS jacks on the front panel.

4. MAINTENANCE

The Black Lion Audio PBR TRS3 LIT is constructed with a black-anodized aluminum faceplate and a reinforced-steel chassis for long-term durability. To ensure optimal performance and longevity:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents that could damage the finish or internal components.
- **Connections:** Periodically inspect all TRS connections for dust or debris. Ensure cables are securely seated to prevent intermittent signal issues.
- **Environment:** Operate the patchbay in a clean, dry environment with stable temperature and humidity. Avoid exposing the unit to excessive moisture or extreme temperatures.
- **Rack Mounting:** Ensure the unit remains securely mounted in its rack to prevent physical damage from vibrations or accidental impacts.

5. TROUBLESHOOTING

If you encounter issues with your PBR TRS3 LIT patchbay, consider the following troubleshooting steps:

- **No Signal / Intermittent Signal:**
 - Verify all TRS cables are fully inserted and in good condition.
 - Check the 3-way mode switches on the rear panel for the affected patch points. Ensure they are set to the correct mode (Normal, Half-normal, or Thru) for your desired signal flow.
 - Test the connected audio equipment independently to rule out issues with other devices.
- **Hum or Noise:**
 - Ensure all equipment in your signal chain is properly grounded.

- Check for any loose cable connections.
- Verify that the patchbay is not placed too close to power supplies or other sources of electromagnetic interference.

- **LED Display Issues:**

- Ensure the unit is powered on.
- If customization issues arise, consult the Black Lion Audio website for software updates or troubleshooting guides related to the LED display utility.

If problems persist after attempting these steps, contact Black Lion Audio customer support for further assistance.

6. SPECIFICATIONS

Model	PBR TRS3 LIT
Type	48-point Gold-plated TRS Patchbay
Connectors	96 x 1/4-inch TRS (48 front, 48 rear)
Operation Modes	Normal, Half-normal, Thru (per module, via 3-way switches)
Display	Customizable LED Display (macOS/Windows compatible)
Chassis Material	Black-anodized Aluminum Faceplate, Reinforced-Steel Chassis
Item Weight	9.73 pounds
Product Dimensions	23.03 x 9.06 x 7.09 inches

7. WARRANTY AND SUPPORT

Black Lion Audio products are designed for reliability and performance. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official Black Lion Audio website. For technical support, service, or any questions regarding the operation of your PBR TRS3 LIT patchbay, please contact Black Lion Audio customer service directly through their official channels.