

# PC BAL BOX

User Manual



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Cueing and Presentation Control Specialists

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## Introduction

**PC BAL BOX** is a high bandwidth multipurpose audio interfacing tool designed to address a multitude of audio needs in the professional AV market.

Features include:

- Phono and XLR input options - ideal for interfacing consumer or computer audio sources.
- High bandwidth with an insertion loss of approx 2dB.
- Bi-directional balancing - simple conversion of unbalanced stereo audio to balanced stereo, in either direction.
- -20dB pad switch - attenuation in case of needing to switch between line and mic levels.
- Stereo to mono switch - simple conversion of stereo to mono.
- Ground lift - switchable grounding on outputs to cure induced hum or cross-talk effects.
- Passive adaptor - no external or battery power required.

### ***PC BAL BOX - The AV Professional's Toolkit!***

We hope that PC BAL BOX exceeds your expectations and welcome any feedback that you have about this or any of our products.

Thank you.

The Interspace Industries Team  
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## Operating Instructions

**PC BAL BOX** is a totally passive - no batteries or external power supply is required. It provides a simple means of connecting a computer or consumer audio source to a professional sound system.

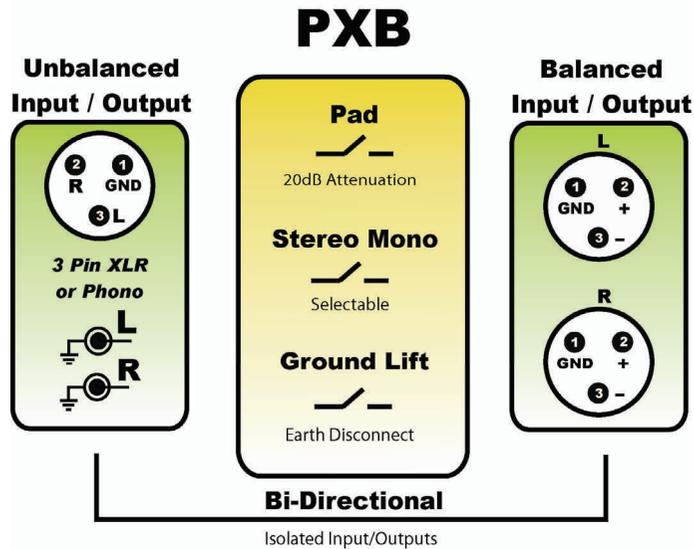


Fig 1. Connection Diagram

### Pad Switch

Ideal for interfacing line:mic levels in either direction, the pad switch will attenuate the audio level between input and output by approx 20dB via a resistive network.

As this unit is passive, it is possible to use it as a line level input to computers with a 3.5mm stereo jack microphone input. This will need to be checked thoroughly first however. Ensure the pad switch is 'on' and the unbalanced input on the **PC BAL BOX** is connected to the computer mic input. Balanced audio can then be connected from the sound desk to the output of the **PC BAL BOX**. This will enable balanced transmission to unbalanced reception, thereby reducing line-induced hum.

### Stereo / Mono Switch

This allows the combining of both left and right stereo channels via an internal resistive network to protect the source device (output drivers). A 600 ohm, high bandwidth audio transformer provides a fully balanced output.

### Earth Lift

Using PC BAL BOX it is possible to isolate the computer or consumer audio source device earth system to defeat possible hum loops. When using the Earth lift feature it is essential however that the receiving equipment (i.e. the sound desk) has a reliable balanced input earth.