

# **STDB-1 STEREO TUBE DIRECT BOX : USER GUIDE**

**by Demeter Amplification**

## The Demeter STDB-1 Stereo Tube Direct Box

Thank you for purchasing the STDB-1 Stereo Tube Direct Box. Designed by James Demeter, this unit offers faithful reproduction of the entire frequency spectrum and adds tube warmth to otherwise sterile direct-inject instrument recordings.

### Safety Precautions:

1. Do not use the unit in excessively moist environments.
2. Although not required, it is recommended to leave 1 rack space above the unit to allow for proper ventilation and to elongate the life of the tubes.
3. This unit is equipped with a grounding plug as a safety feature. Please do not remove the ground on the unit. If you are experiencing noise in the signal, try lifting the ground on the signal source.

### Package Contents:

This package should contain-

- STDB-1 Stereo Tube Direct Box
- IEC Power Cable

### Warranty:

The STDB-1 Stereo Tube Direct Box is covered for 1 year parts and labor.

### Specifications:

<b>Input Impedence</b>	27 M $\Omega$
<b>Output Impedence</b>	150 $\Omega$ balanced 2 K $\Omega$ unbalanced
<b>THD @ 0dB gain in</b>	.04% unity .09% boost mode
<b>Bandwidth</b>	10Hz to 40kHz +/- .5 dB unity 20Hz to 18kHz +/- 1 dB boost
<b>Balanced Level Out</b>	-20.1 dB unity -4.2 dB boost
<b>Unbalanced Level Out</b>	Unity gain
<b>Maximum Output</b>	+20dBv @ 600 $\Omega$
<b>Output Transformer</b>	Jensen DBE
<b>Tubes</b>	12AX7 (2) 12AT7A (1)
<b>Output Jacks</b>	XLR, TS
<b>Input Jacks</b>	TS
<b>Operating Voltage</b>	117 Volts or 240 Volts
<b>Dimensions</b>	7.5" x 5.5" x 1.75"

## Front Panel Operation



- **Ground Lift Switch** : Lifts the ground on the output signal.
- **Phase Invert Switch** : Inverts the phase of the input signal.
- **Gain Unity/Boost** : Enables a 16dB boost (use on low-level signals)
- **Volume Knob** : Changes the output volume (only works when boost is in)
- **Aux Output** : Unity gain, *low impedance* tube driven output. Use this output to go back into an amplifier. Although generally instrument outputs run in *high impedance*, This output is tube buffered to create *low impedance*. This means that you can run extremely long cable lengths back into your amplifier (~200' max) from the direct box. This is handy because you can keep your STDB-1 & amplifier in completely separate rooms.

## Rear Panel Operation



- **Balanced XLR Output** : Outputs a balanced +4dB signal.
- **Unbalanced TS Output** : Outputs an unbalanced line-level signal up to +20dB. (You can go straight into Pro Tools and completely bypass the preamplifier with this baby!).\
- **Voltage Selector** : Switches between 120VAC/220VAC for international operation. Fuse must also be replaced before switching the voltage. 120VAC operation requires a 1 amp quick blow fuse, 220VAC requires a .5 amp quick blow fuse.
- To reamp, put your recorders output into the front panel input. Use an XLR to 1/4" adapter (short ground [pin 1] to negative [pin 3]) and take the signal out of balanced XLR output.

## **Troubleshooting:**

- **No Sound :** Check cables & connections, if light is off, check the fuse. If still no sound, check to see if the unit operates with the unity/boost button in. If everything is dead, try replacing the 12AT7 tube.

## **Support:**

Feel free to call or email us for additional support or product repairs. We are available M-F 11am-4pm Pacific Standard Time.

**Phone :** (805) 461-4100

**Email :** [support@demeteramps.com](mailto:support@demeteramps.com)

**Website :** [www.demeteramps.com](http://www.demeteramps.com)

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