

Preliminary Information

Valvotronics Tube Amplified Direct Inject box

FRONT PANEL

Left to right:

DI IN: suited for any source with an average level in the -20dBu range, including guitar, bass guitar, low level keyboards, various types of pickups. 1Mohm input impedance.

An unbalanced signal from a high impedance source is amplified 10 dB at the mic/DI output and is transformed into a balanced signal at 150 OHMS. It can be amplified to $+4\text{dBu}$ with the GAIN OUT knob at 2 o'clock, output at the LINE OUT connector, balanced, 50 OHMS.

PASS THRU: parallels DI IN.

TUNER: a buffered output meant for using with a tuner. 600-ohm output impedance.

SWITCH 1: up is mic or line source, down is DI source input

SWITCH 2: up is LINE; down is MIC.

SWITCH 3: filter #1. Up is a notch at 11kHz; down is a notch at 6.5kHz. CENTER OFF.

SWITCH 4: filter #2. Up is a notch at 4.2kHz; down is a notch at 2.4kHz. CENTER OFF.

SWITCH 5: BASS TILT, or BT for short. It is a 6 dB per octave filter with its -3dB point at 500 Hz. There is interaction between this filter and the other filters. Use of this filter with one or more of the notch filters results in a small peak at the usually notched frequency, along with the BT's slope rolling off the high frequencies.

MIC PAD: variable pad for the mic input. Fully clockwise is 0 dB attenuation, fully CCW is -35dB attenuation. It is best to start with the knob fully up when using microphones, and pad only when necessary to do so. S/N is better when getting the most level off the mic at this stage. A 12 o'clock setting is -6dB , and with the GAIN OUT knob at 12 o'clock, one may expect a gain of 34dB.

LINE IN: a level pot for control of the signal from the LINE INPUT connector. This control at 12 o'clock and the GAIN OUT control at 12 o'clock will be **unity gain** from the LINE IN to the LINE OUT connectors.

BACK PANEL

Left to right

12VDC: center positive, .75A minimum current. Use of the supplied power supply is recommended. This unit is EARTHED through the ground pin of the IEC AC cable. The coaxial connector has a thread-locking ring that will prevent mistaken pullouts. This unit may be operated with a 12-volt battery for remote or mobile use. Contact Valvotronics about this.

SWITCH 6: 48 volts on/off for phantom power to the mic input connector. It is advised to mute your console's input when switching 48 volts on or off.

SWITCH 7: GL, or ground lift. Factory default configures this to be pin 1 of the line output XLR, on, connected to the unit's ground (and "earth"), or, off, i.e., ground lifted. Can be internally changed to ground lift the DI/mic output, or, both connectors simultaneously.

LINE OUT: balanced/unbalanced line level 50-ohm pin 2 hot output of any input. Is on concurrent with DI/mic OUT.

LINE IN: 10K ohm balanced/unbalanced input, pin 2 hot. There is a reasonably wide range of things that might be input here.

DI/mic out: mic level output that is operational at the same time as the line out. 150 ohm balanced signal, a relatively "hot" signal that makes it easy to get great S/N using another preamp following this unit.

Mic in: accepts any microphone. 600 ohm transformer balanced input, 48 volts available on a switch (#6 above) via 0.1% accuracy resistors.

NOTES

1. All the inputs go through the special tube circuit inside.
2. The tube operates at high voltage. Please attempt no service inside this unit.
3. All inputs are capable of using the filter switches.
4. BOTH outputs are active at the same time.
5. TWO of the single units may be fastened together and rack ears added for a stereo 1RU unit.

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