

## **Description of controls for the D19 DI/Mic pre/Line amp**

**GTR/Bass in:** *Switch on front to “DI”* - most GTRs or basses can be plugged in here. The signal is paralleled to the “THRU” jack. There is a buffered output for a non-interfering “TUNER” out jack. The signal goes through the tube amp, and then a transformer to the “MIC OUT” MXLR. This is the same path and circuit as the original Valvotronics DI. Simultaneously, the signal appears at the “LINE OUT” MXLR, after going through an additional amp, controlled by the “GAIN” knob. Normally, GAIN KNOB is set at “0”.

**MIC IN:** *Switch on front to “M/L”, and “MIC”* - transformer balanced input, 48V phantom available via switch on back panel. Signal goes through a mild turns ratio transformer, and through the tube amp, and through a second stage controlled by the GAIN knob. The “MIC” control is normally used all the way up, this control is a variable pad, and best S/N is usually found by having the knob set to “0”. With the gain knob on “0”, and the “MIC” knob on “0”, there is 41 dB of gain. Total gain available with GAIN turned up is typically 60dB. Outputs available at “LINE OUT” and “MIC OUT” simultaneously.

**LINE IN:** *Switch on front to “M/L” and “LINE”* – Balanced or unbalanced via MXLR uses “LINE” knob to control gain – “0”, or unity gain is when both “LINE” and “GAIN” knobs are at “0” (12 o’clock). Both outputs available from this input source- one can use the “MIC OUT” for re-amping a line level source. Use the “LINE” knob to control the level to the “MIC OUT” MXLR.

**FILTERS:** *1,2,3,4, + BT* - 4 filters for notching out finger or other bothersome noises. The filters are active for all sources. “BT” = Bass Tilt, a filter good for bass GTR. Combos of filters are OK. Using the 2.4kHz filter with BT gives a slow long treble rolloff, with an “up peak” at 3.3kHz. Adds articulation while generally darkening the sound. Some of the filters can be quite effective and sound good on MIC or LINE sources.

**GRD lift:** not usually recommended, but this switch, on back, lifts PIN 1 on the LINE OUT XLR as factory default. Can be reconfigured as a MIC OUT GRD lift, or BOTH LINE and MIC outputs ground lift.

**PSU:** 12 volt, center positive regulated supply, 1.5 A recommended. The PSU supplied works anywhere on Earth, using the appropriate IEC cable. This unit can be run from an optional battery pack. Power inlet has locking connector to prevent accidental pullout of power.

Two units can be ganged for a 1 RU 2 channel unit.

Rack mount kit available as option.

Hardware for standing the single unit on end for desktop use available as option.

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