

Features

- Carnhill Microphone and Line Input Transformers w/ mumetal housings
- Hi-Z Direct Instrument Input (TRS)
- Carnhill Output Transformer
- Discrete Class A Electronic Topology
- Variable gain, low noise output stage
- 48V Phantom Mic Power
- Input and Output Level Monitoring via VU Meter
- Selectable 300Ω or 1200Ω Mic Input Impedance
- Inductor Based Equalization and High Pass Circuit
- Input and Output Level Overload Indicators
- Reverse Phase Switch
- Universal on board power supply



User Controlled Functions

- On Switch** Turn Pre Amp On - VU Meter Light
- 300Ω / 1200Ω Switch** Switch between 300Ω and 1200Ω input impedance for the mic input
- 48V Power Supply Switch** On/Off
- DI Switch** Direct Input with 100KΩ input sensitivity
- EQ Switch** Engages audio high pass filter and equalization circuits
- Polarity Switch** Reverses the polarity of the audio signal
- Mic/Line Sensitivity Switch** +20dB to +70dB of mic boost and -30dB to +20dB of line level adjustment.
- High Pass Filter** Provides a 15dB/octave high pass filter at 40Hz, 80Hz, 160Hz and 320Hz
- Low Frequency Equalization** Provides +/-15dB of Boost or Cut at 35Hz, 60Hz, 110Hz or 220Hz
- Mid Frequency Equalization** Provides +/-15dB of Boost or Cut at 360Hz, 700Hz, 1.6kHz, 3.2kHz, 4.8kHz or 7.2kHz
- High Frequency Equalization** Provides +/-15dB of Boost or Cut at 3.4kHz, 4.9kHz, 7kHz, 12kHz or 16kHz

Inputs

- Microphone (XLR)** Transformer balanced input, RF isolated
- Line (XLR)** Transformer balanced input, RF isolated
- Direct In (1/4" TRS)** High impedance instrument input

Input Impedance

- Microphone** 300Ω or 1200Ω
- Line** 10kΩ line bridging from 600Ω or lower source impedance

Sensitivity

- Direct Input** 100kΩ
- Microphone** From -70dBm to -20dBm in 5 dB steps for 0dBm output
- Line** From -30 dBm to +20 dBm in 5 dB steps for 0 dBm output
- Noise Specification** Better than -125dBm EIN between -80 and -40 dBm referenced to 600Ω input impedance, SNR 116dB at maximum output
- Output Type** Transformer balanced and floating to drive 600 Ω load
- Maximum Output** +28dBu into 600Ω load impedance
- Frequency Response** 10Hz - 20kHz -0.5dB
10Hz - 50kHz -1dB

Indicators

- VU Meter Light** Power ON
- Red Input Gain** Input Overload
- Red Output Gain** Output Overload

Power Supply

- 100V - 240V (50/60Hz)** Switch mode power supply, fully shielded 3 amp peak output capability, quiescent consumption 0.5 Watts

Mechanical

- 1RU Steel enclosure
- Aluminum front panel
- Laser etched graphics
- Milled aluminum knobs

Frequency Response

