

VHD PRE-EQ Preamp with built-in Line Drivers

Introduction



The design of the new VHD PRE-EQ is based on years of experience in presenting KV2 Audio systems using our associated Electronics. The VHD PRE-EQ includes a single microphone input, two stereo line inputs (balanced XLR, RCA / internal DAC) and A/B switchable master outputs. The preamp includes direct summing inputs for combining multiple preamps in mixing applications. The microphone input is equipped with a tuneable or preset HPF, insert, and 4-band EQ. The stereo line inputs are configured with Line input 1 - XLR, Line input 2 - RCA / internal DAC and share a brand new revolutionary George Krampera 8- band EQ. The A/B outputs are equipped with left/right pan, mono summing and master volume. The VHD PRE-EQ is equipped with signal level presence on inputs and meters on outputs. A high quality, high definition USB DAC up to 384KHz/24bit sample rate is included. Great emphasis was placed on maintaining the highest possible sound quality.

Features

- single microphone input, two stereo line inputs (balanced XLR, RCA / internal DAC)
- A/B switchable master outputs. T
- direct summing inputs for combining multiple preamps in mixing applications
- the microphone input is equipped with a tuneable or preset HPF, insert, and 4-band EQ
- the stereo line inputs are configured with Line input 1 - XLR, Line input 2 - RCA / internal DAC and share a brand new revolutionary George Krampera 8- band EQ.
- the A/B outputs are equipped with left/right pan, mono summing and master volume
- equipped with signal level presence on inputs and meters on outputs
- USB DAC up to 384KHz/24bit sample rate

Application

Especially designed as a super high quality preamplifier to allow A/B comparisons and presentations between products and systems

- Fixed installations
- Sub mixing
- Portable
- Demonstrations/presentations

System Acoustic Performance	
-3dB Response	10Hz to 120kHz
Total Harmonic Distortion	<0.0005%
Output Channels	
Number of Channels	2x A/B - XLR
Max. Output Voltage	18dBu / 12dBu (50Ω) RMS
Max. Output Current	450mA
Signal Input	
Input Channels	9
Input Impedance	2kΩ Mic / 20kΩ Balanced IN / 10kΩ RCA IN
Max. Input voltage	+26dBu
Mic input	Phantom power, -20dB, Input level, Phase, 4-band EQ
Line input	Balanced, DAC/RCA, ±20dB
DAC input	USB2.0, 384kHz/24bit DAC

Signal Output	
Signal Output Channels	stereo A / stereo B
Output Impedance	50Ω
Features	
Level Control	-∞ to +6dB
High Pass Filter	Vocal preset / 10Hz to 500Hz
Equalization	8-band EQ
Indicators	LED, VU meters
Power Requirements	
Power Connector	IEC 320
Operating Voltage Range	90 to 130V@60Hz 180 to 260V@50Hz
Physical Dimensions	
Height	44.5 mm (1.75")
Width	483 mm (19.0")
Depth	265 mm (10.43")
Weight	4.5 kg (10lbs)

VHD PRE-EQ Preamp with built-in Line Drivers

Architectural Specifications

The VHD PRE-EQ-Controller shall provide two pairs of individual application specific electronically Balanced Output Channels for comparisons of two individual Audio systems using SLA Technology - (Super Live Audio).

A SLA DAC input USB2.0, 384kHz/24bit DAC is employed.

The VHD PRE-EQ shall have front panel controls to include for the Microphone input section, signal presence, 0db and clip level LED's, -20db input pad switch, selectable tune or pre-set high pass filter, signal insert switch, SLA - 4 band EQ potentiometers and a Phantom Power switch shall be used for 48V Phantom Power activation.

There shall be separate Gain and Master Volume potentiometers for the Mic input.

The VHD PRE-EQ shall have front panel controls to include Individual potentiometers for the XLR Balanced and RCA unbalanced Line inputs, Pan and Master volume. SLA - 8 band EQ shall be employed for the Line inputs.

For the Master section, Push button switches select DAC/RCA, Mono output, EQ, and AB outputs.

Signal presence, 0db, clip level and output LED's are employed.

The VHD PRE-EQ shall have an input Impedance of 2Kohm for Mic, 20Kohm for Balanced in and 10Kohm for RCA Unbalanced in.

The VHD PRE-EQ will have an output Impedance of 50ohm. An IEC 320 Power connector shall be used for Mains power connection and shall have an operating Voltage range of 90 to 130V @60Hz and 180 to 260V @50Hz.

The System Acoustic Performance shall be -3dB 10Hz to 120kHz . The system Total Harmonic distortion shall be no more than <0.0005%.

The Preamplifier shall have dimensions of:

Height 44.5 mm / 1.75"

Width 483 mm / 19.0"

Depth 265 mm / 10.43"

The weight shall not exceed 4.5 kg /10lbs.

The PRE-EQ Controller shall be the KV2 Audio VHD PRE-EQ.

Front and rear panel

Front Panel

483 mm



Rear Panel

483 mm



VHD PRE-EQ Preamp with built-in Line Drivers

Dimensional Drawings

