

Introduction

The ultimate advantage of using the SAC2 anywhere within the signal chain is the immediate improvement in definition, resolution and dynamic range. A musical four-band equaliser, allows for quickly shaping the sound, exactly as required without affecting the overall linear response. The two notch filters per output offer immediate control of dominant room resonances. The fixed crossover filter points of either 70Hz or 120Hz can be independently switched for Hi and Low outputs allowing either a standard 2 X 2 way configuration or an overlap to be created. Alternatively the crossovers can be bypassed allowing simple 2 in 4 out program control. The transparent limiter feature can be used to maintain level without affecting the quality or dynamic performance of the system. A security cover is also available for fixed installations.



Features

- 2 input X 4 output Super Analog audio controller
- Designed for optimised performance with KV2 Audio's ESD loudspeakers, as well as other manufacturers passive or active loudspeakers
- Each channel features a switchable crossover with adjustable HPF / LPF and two independent notch filters, for left and right channels, to quickly and effectively reduce room resonances and feedback issues

Application

Designed as an active crossover – equalizer - limiter and controller for the ESD range with superior sound quality

- Fixed Installations
- Portable PA
- Speaker protection and level control
- Use with any KV2 Audio system as a FOH EQ or with any alternative systems

System Acoustic Performance	
-1dB Response	20Hz to 40kHz
Dynamic Range	>115dB
Channel Crosstalk	>60dB
Total Harmonic Distortion	<0.005%
Output Channels	
Max. Output Voltage	14V / 7V (50Ω) RMS
Max. Output Current	450mA
Signal Input	
Input Channels	2
Input Impedance	20kΩ (balanced)
Line input	XLR
Signal Output	
Output Channels	4
Output Impedance	50Ω
Features	
Level Control	-15 / +10dB
System setup	Crossover / Bypass
Gain	-10 / +10dB
Phase	0° / 180°
Crossover	70 / 120Hz, Butterworth 12dB / octave
High Pass Filter	20 / 40Hz
Equalization	4-band equalizer
Notch Filter	2 per channel
Loudness bass enhancement	+6dB @ 60Hz
Volume Limiter	Fast/Slow / -15 + 10dB
Indicators	4x LED bar graphs

Power	
Power Connector	IEC 320
Operating Voltage	115V / 230V
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	201 mm (7.9")
Weight	3.2 kg (7.05lbs)

Architectural Specifications

The unit shall provide two pairs of individual application specific electronically Balanced Output Channels for Crossover Frequency Audio systems control and Room control of resonance via application specific Notch controls using SLA Technology - (Super Live Audio).

The Controller shall have Front Rotary panel controls to include Gain, Limiter, Low, Low-Mid, Hi-Mid and Hi, 2 x Notch Filters per channel, Low and High Output.

The controller shall have Front panel switches to control and activate selectable High Pass (20Hz or 40Hz) EQ, -6/0/-12dB Notch range, Crossover range 70Hz/120Hz, LPF/Direct and HPF/Direct.

The Front panel will have LED indicators for Limiter Activation, Low L/R, High L/R Outputs and Crossover On.

The Rear panel shall incorporate Left and Right Balanced XLR input connectors.

Balanced pairs of XLR Output connectors are used for LOW and HIGH outputs.

The Rear panel incorporates panel switches for Limiter Fast/Slow, Sub EQ On/OFF, Sub Mode Mono/Stereo, 1 x Phase reverse for each individual output. Rear panel on off switch.

The Controller shall have an input Impedance of 20Kohm Balanced.

The output Impedance shall be 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, 180 to 260V @50Hz.

The System Acoustic Performance shall be 20Hz - 40 KHz -1dB.

The system Total Harmonic distortion shall be no more than <0.005%.

The Controller shall have dimensions of:

Height 44.5 mm / 1.75"

Width 483 mm / 19.0"

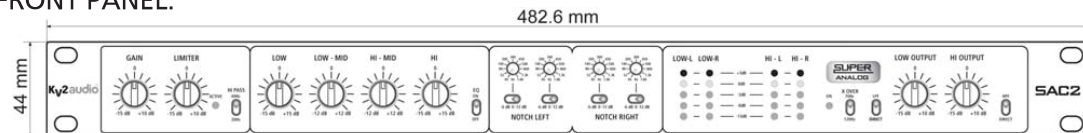
Depth 201 mm / 7.9"

The weight shall not exceed 3.2 kg /7.5lbs.

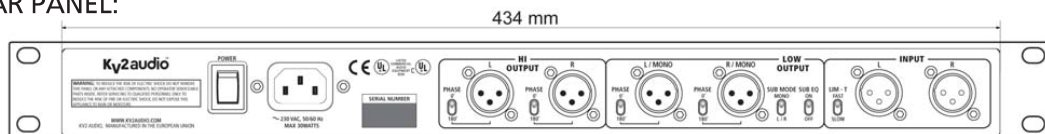
The Controller shall be the KV2 Audio SAC2.

Dimensional Drawings

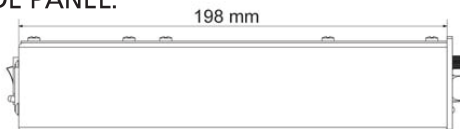
FRONT PANEL:



REAR PANEL:



SIDE PANEL:



The future of sound. Made perfectly clear.



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