

SDD3 Technical Data Sheet

Introduction

The SDD3 is a true technology statement by KV2 Audio. It utilises our ground breaking 20MHz PDM digital conversion process developed for time alignment applications in our speaker range.

The SDD3 incorporates high quality line driver outputs to allow

users to deliver pristine audio signal to delay speakers or under balcony fills over 100m from the source. The ultimate choice for the distribution of time corrected audio signal, the SDD3 has two super digital channels that will deliver up to 400 milliseconds of delay. Each of these channels has an adjustable HPF and is easily programmed through the front panel menu where all settings can be stored and recalled for varying situations. It also has a third channel with up to 10 milliseconds of delay for configuring cardioid subwoofer setups. Ideal for large stadiums, theatres, concert halls or any application where time correction is required to achieve optimum audio quality.



Features

- Two very high definition, full range channels with delay up to 400ms
- One subwoofer channel with two independent outputs with delay up to 10ms
- Tunable High pass filters for easy use with side fill applications
- High contrast OLED display
- ADC sensitivity and LEVEL pots for easy and optimal system level setup
- Phase reverse switch on each output
- Line driver on each output for highest possible signal integrity over long cables
- Level meter on each input
- Delay setup (time, distance - metric or imperial)
- Cardioid mode for easy cardioid setup
- Up to 30 user memory, power-off autosave
- Lock feature - digital part only
- Temperature auto-recalculation

Application

Especially designed as a super high quality audio delay line

- Fixed installations
- Live music and performance
- Can be used to enhance the performance of third party systems

System Acoustic Performance	
-1dB Response	2Hz to 40kHz
-10dB Response	2Hz to 100kHz
Sampling Frequency	20MHz, PDM
Dynamic Range	>105dB
Channel Crosstalk	90dB
Signal to Noise Ratio	105dB
Total Harmonic Distortion	0.005%
Signal Input	
Input Channels	2 Full range + 1 Subwoofer
Input Impedance	20kΩ (balanced)
Max. Input voltage	+14dBu
Line input	XLR
Signal Output	
Output Channels	2 Full range + 2 Subwoofer
Output Impedance	50Ω
Through Signal Output	XLR
Delay Signal Output	XLR

Features	
Level Control	-10 / +10dB
Subwoofer Level Control	-10 / +10dB
System setup	Normal / Cardioid mode
Delay Range	0.012ms to 393.216ms, step 0.003ms
Full Range Mode	2 channels
Phase	0° / 180°
High Pass Filter	OFF to 260Hz
Indicators	OLED Display
Memory	30
Power	
Power Connector	IEC 320
Operating Voltage	115V / 230V
Operating Voltage Range	90 to 130V@60Hz 180 to 260V@50Hz
Physical Dimensions	
Height	44 mm (1.75")
Width	482.6 mm (19.0")
Depth	203 mm (7.9")
Weight	3.6 kg (7.94lbs)

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Architectural Specifications

The Unit shall provide two full-range individual channels of 20MHz- PDM processing with up to 400ms delay time using SLA Technology (Super Live Audio).

The unit shall provide one single Subwoofer channel with two independent outputs of delay up to 10ms to enable Cardioid set up.

The SDD3 shall incorporate front rotary panel controls to include gain ADC gain, High pass and Output level for each channel.

It shall include front panel switches for phase reversal on both inputs and outputs.

The Front panel will have a high contrast OLED display to denote input levels, ADC gain level and all input to output selection.

The unit shall be controlled by push switches for Function, Channel selection and Bypass modes.

A single Push action- Rotary control shall be used to administer set up and complete control.

The rear panel shall incorporate left and right balanced input, through and delay output XLR connectors for the main two full range channels.

The rear panel shall incorporate a single balanced XLR input and through output and two balanced XLR Subwoofer delay outputs.

All outputs shall incorporate KV2 Audio Line drivers.

The on off power switch shall be on the rear panel.

The input impedance shall be 20Kohms Balanced and the output impedance 50 ohms.

A single IEC 320 Power connector shall be used for mains connection and shall have an operating Voltage range of 90 to 130V@60Hz and 180 to 260V@50Hz.

The system Acoustic performance shall be 2Hz-40kHz -1dB.

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

The unit dimensions shall be:

Height 44 mm (1.75")

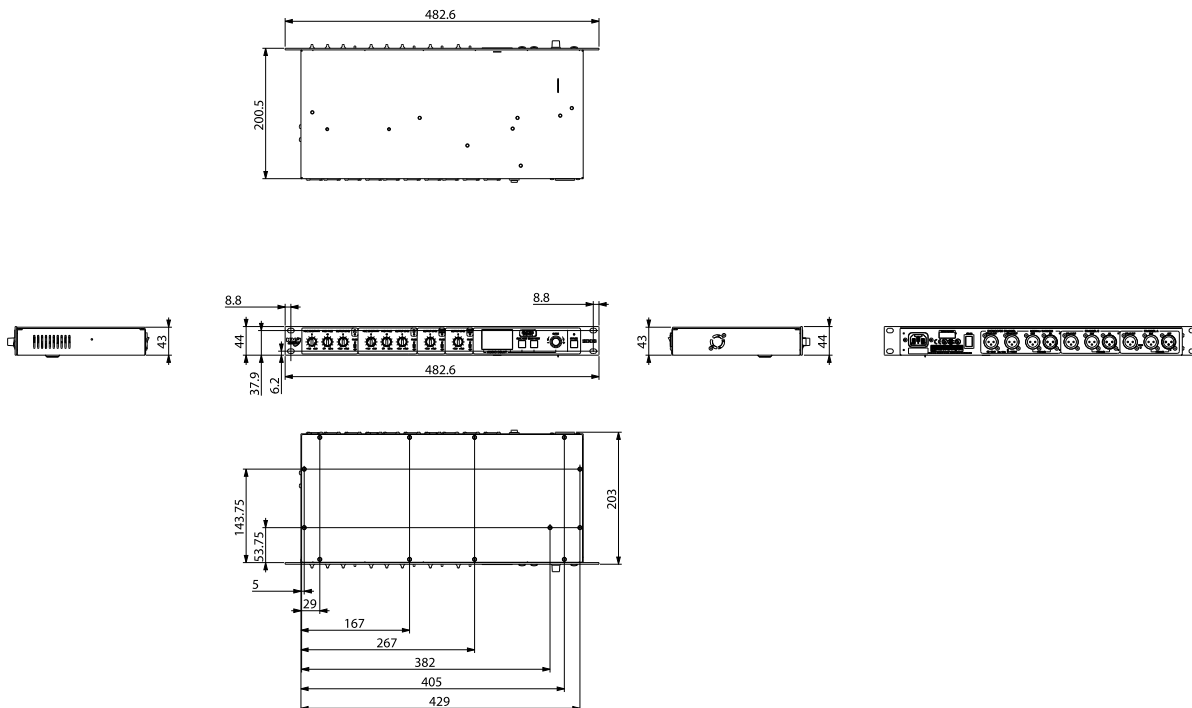
Width 482.6 mm (19.0")

Depth 203 mm (7.9")

The weight shall not exceed 3.6 kg (7.94lbs).

The Unit shall be the KV2 Audio SDD3.

Dimensional Drawings



The future of sound. Made perfectly clear.



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