Processors

LD4
SD8
VHD Preamp
SDD3
COMPEX
SAC2

Processors

In keeping with our focus on the highest possible sound quality we also manufacture a number of electronic processors that integrate into our or other systems to provide the best achievable signal path from source to speaker.

LD4 - 4 Channel Line Driver

The VHD LD4 is a four channel line driver designed to maintain audio signal integrity over long cable lengths. As cable lengths between mixers and amplifiers increase, the length of the cable creates a high capacitance load that many mixers have difficulty in driving. The LD4 eliminates standing waves and signal impurities resulting in the delivery of a high quality audio signal no matter what the cable length.

The VHD LD4 was built as a part of KV2 Audio's VHD product philosophy focused on delivering very high definition audio. Each channel features an individual transformer based power supply with insulated grounding. Circuitry is designed to provide excellent resolution of signal with very high dynamic content as found in live sound applications.

	LD4		
-1dB Response	6Hz to 500kHz	Line input	Gain (50Ω) 0dB
Dynamic Range	>120dB	Signal Output Channels	4x
Total Harmonic Distortion	<0.0005%	Output Impedance	50Ω
Max. Output Voltage	14V / 7V (50Ω) RMS	Operating Voltage	115V / 230V
Max. Output Current	450mA	Operating Voltage Range	100 to 120V @ 60Hz | 230 to 250V @ 50Hz
Input Channels	4x	Dimensions H/W/D	44 mm (1.7"), 482.6 mm (19.0"), 202.3 mm (7.9")
Input Impedance	20kΩ	Weight	2.9 kg (6.5lbs)

SD8 - 8 Channel Stage Driver

The VHD SD8 is an eight-channel stage preamp designed with individual line drivers that maintain audio signal integrity over long cable lengths. As cable lengths increase, the length of the cable creates a high capacitance load that most microphones have difficulty in driving. The SD8 features eight independent mic inputs with gain control adjustment, -20 dB pad and 48V phantom power.

Each input has two outputs allowing signal routing to two separate locations such as front of house and monitoring consoles. A five bar LED display provides signal level information and a rotary knob provides 0db to +30 dB of gain control.

	SD8		
-1dB Response	6Hz to 500kHz	Mic input	0 to +30dB Gain, pad -20dB
Dynamic Range	>120dB	Signal Output Channels	8x2
Total Harmonic Distortion	<0.0005%	Output Impedance	50Ω
Max. Output Voltage	14V / 7V (50Ω) RMS	Operating Voltage	115V / 230V
Max. Output Current	450mA	Operating Voltage Range	100 to 120V @ 60Hz | 230 to 250V @ 50Hz
Input Channels	8x	Dimensions H/W/D	89.0 mm (3.0"), 482.6 mm (19.0"), 203 mm (7.9")
Input Impedance	20kΩ	Weight	5.5 kg (12.1lbs)

VHD Dual Output Preamp with built-in Line Drivers

The VHD Preamp is a Very High Definition, small stand-alone microphone and stereo inputs signal mixer. Primarily built for high quality, easy presentation and comparisons of two individual systems using the same source, the applications for this mixer are comprehensive and extremely useful.
The VHD Preamp features a stereo pair of balanced line inputs, stereo RCA phono connectors, and a very high quality VHD microphone preamplifier.

The microphone channel features phantom power, four band equalization and a variable high pass filter. The VHD Preamp also features two switchable A or B outputs, to allow a simple comparison of systems between the two outputs. Both A and B outputs have line drivers built into them to maintain audio signal integrity over long cable lengths.

	VHD Preamp		
-3dB Response	10Hz to 50kHz	Line input	RCA/Balanced, 2 band EQ, -10dB
Total Harmonic Distortion	<0.0005%	Signal Output Channels	stereo A / stereo B
Number of Channels	2	Output Impedance	50Ω
Max. Output Voltage	14V / 7V (50Ω) RMS	High Pass Filter	10Hz to 500Hz
Max. Output Current	450mA	Equalization	4-band EQ
Input Channels	5	Operating Voltage Range	100 to 250V@50 to 60Hz
Input Impedance	2kΩ Mic / 20kΩ Balanced IN / 10kΩ RCA IN	Dimensions H/W/D	44.5 mm (1.75"), 483 mm (19.0"), 177.8 mm (7.0")
Mic input	Phantom power, -20dB, Input level	Weight	2.5 kg (5.5lbs)

SDD3 - Super Digital Delay Line

The SDD3 is a true technology statement by KV2. 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 cardoid sub woofer setups. Ideal for large stadiums, theatres,concert hall or any application where time correction is required to achieve optimum audio quality.

	SDD3		
-1dB Response	2Hz to 40kHz	Delay Signal Output	XLR
-10dB Response	2Hz to 100kHz	Level Control	-10 / +10dB
Sampling Frequency	20MHz, PDM	Subwoofer Level Control	-10 / +10dB
Dynamic Range	>105dB	System setup	Normal / Cardioid mode
Channel Crosstalk	90dB	Delay Range	0.012ms to 393.216ms, step 0.003ms
Signal to Noise Ratio	105dB	Full Range Mode	2 channels
Total Harmonic Distortion	0.005%	Phase	0° / 180°
Input Channels	2 Full range + 1 Subwoofer	High Pass Filter	OFF to 260Hz
Input Impedance	20kΩ (balanced)	Memory	30
Max. Input voltage	+14dBu	Operating Voltage	115V / 230V
Line input	XLR	Operating Voltage Range	90 to130V@60Hz | 180 to 260V@50Hz
Signal Output Channels	2 Full range + 2 Subwoofer	Dimensions H/W/D	44 mm (1.75"), 482.6 mm (19.0"), 203 mm (7.9")
Output Impedance	50Ω	Weight	3.6 kg (7.94lbs)
Through Signal Output	XLR		

COMPEX - Dynamic Harmonics Control

The COMPEX is a stereo (2 input x 2 output) Analog Dynamic Harmonics Control unit. COMPEX is a pure analog signal processor which provides adjustment of the audio signal from low quality signal sources. The COMPEX features an optical audio compressor, with level dependent filters for reduction of unpleasant high frequency distorted signals from bad signal sources and recordings (compressed audio, Mp3, bad CD, laptops etc.).

The COMPEX also features a very high quality harmonics expander, which adds harmonic content to the depleted high freqencies on these recordings. The amount of harmonics added or changed is set by an individual potentiometer.

	COMPEX		
-3dB Response	20Hz to 100kHz	System setup	Bypass (remote controlled)
Dynamic Range	>130dB	Harmonics	Drive, 0 to 10
Channel Crosstalk	90dB	Equalization	Level dependent
Signal to Noise Ratio	110dB	Indicators	2x 2 Level LED bar graphs
Total Harmonic Distortion	0,001%	Threshold	∞ to -20dB
Input Channels	2	Ratio	1:3
Input Impedance	20kΩ (balanced)	Range	0 to 10
Line input	XLR	Operating Voltage	115V / 230V
Signal Output Channels	2	Operating Voltage Range	90 to 130V@60Hz | 180 to 260V@50Hz
Output Impedance	50Ω	Dimensions H/W/D	44 mm (1.7"), 482.6 mm (19.0"), 198 mm (7.8")
Through Signal Output	XLR	Weight	2.7 kg (5.96lbs)
Level Control	-10 / +10dB		

SAC2 - 2 Channel Super Analog Controller

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.

	SAC2		
-1dB Response	20Hz to 40kHz	Gain	-10 / +10dB
Dynamic Range	>115dB	Phase	0° / 180°
Channel Crosstalk	>60dB	Crossover	70 / 120Hz, Butterworth 12dB/octave
Total Harmonic Distortion	<0.005%	High Pass Filter	20 / 40Hz
Max. Output Voltage	14V / 7V (50Ω) RMS	Equalization	4-band equalizer
Max. Output Current	450mA	Notch Filter	2 per channel
Input Channels	2	Loudness bass enhancement	+6dB @ 60Hz
Input Impedance	20kΩ (balanced)	Volume Limiter	Fast/Slow / -15 + 10dB
Line input	XLR	Operating Voltage	115V / 230V
Signal Output Channels	4	Operating Voltage Range	90 to 130V@60Hz | 180 to 260V@50Hz
Output Impedance	50Ω	Dimensions H/W/D	44.5 mm (1.75"), 483 mm (19.0"), 201 mm (7.9")
Level Control	-15 / +10dB	Weight	3.2 kg (7.05lbs)
System setup	Crossover / Bypass		

Watch our product videos on YouTube.
www.youtube.com/c/KV2Audiocom