

VHD Specifications / Loudspeakers

Product	VHD 2.0	VHD 1.0
System Acoustic Performance		
-3dB Response	100Hz – 22kHz	100Hz – 22kHz
-10dB Response	85Hz – 30kHz	85Hz – 30kHz
Full Range mode -3dB Response	60Hz – 22kHz	65Hz – 22kHz
Max SPL Long-term	139dB (144dB two VHD 2.0's)	134dB (139dB two VHD 1.0's)
Max SPL Peak	142dB (147dB two VHD 2.0's)	137dB (142dB two VHD 1.0's)
Crossover Point	100Hz, 450Hz, 2.2kHz	100Hz, 450Hz, 2.2kHz
Impedance	Low 8Ω Mid 6Ω High 8Ω	Low 16Ω Mid 12Ω High 16Ω
High Frequency Compression Driver		
Throat Exit Diameter / Diaphragm Size	1.4" / 3.0"	1.4" / 3.0"
Diaphragm Material	Nitride Titanium	Nitride Titanium
Magnet Type	Neodymium	Neodymium
Mid/High Horn Coverage Horizontal / Vertical	80° x 40° 80° x 10° (two VHD 2.0's)	110° x 40°
High Frequency Amplifier requirement	200W from VHD 2000	100W from VHD 2000
Rear H.F attenuation switch	N/A	-3dB for high frequency only
Midrange Section		
Acoustic Design	Horn loaded	Horn loaded
Woofer Size / Voice Coil Diameter / Design	Two 8" / 3.0" / Trans Coil	One 8" / 3.0" / Trans Coil
Diaphragm Material	Epoxy Reinforced Cellulose	Epoxy Reinforced Cellulose
Magnet Type	Neodymium	Neodymium
Mid/High Horn Coverage Horizontal / Vertical	80° x 40° 80° x 10° (two VHD 2.0's)	110° x 40°
Midrange Amplifier Requirement	600W from VHD 2000	300W from VHD 2000
Mid-Bass Section		
Acoustic Design	Horn loaded	Horn loaded
Woofer Size / Voice Coil Diameter / Design	Two 12" / 3" / Inside Outside	Two 12" / 3" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose	Epoxy Reinforced Cellulose
Magnet Type	Neodymium	Neodymium
Mid-bass Amplifier Requirement	1200W from VHD 2000	600W from VHD 2000
Speaker Input /Output	Input and Output EP6	Input and Output EP6
Physical Dimensions		
Height	933mm (36.72")	660mm (25.98")
Width	700mm (27.55")	700mm (27.55")
Depth	495mm (19.48")	495mm (19.48")
Weight	70kg (154.0lbs)	45kg (99lbs)

Product	VHD 2.15 / VHD 2.16
System Acoustic Performance	
-3dB Response	37Hz – 100Hz
-10dB Response	32Hz – 100Hz
Max SPL Long-term	139dB (two VHD 2.15's) 143dB (four VHD 2.16's)
Max SPL Peak	142dB (two VHD 2.15's) 147dB (four VHD 2.16's)
Crossover Point	100Hz
Impedance	VHD 2.16- 8Ω, VHD 2.15-4Ω
Subwoofer Section	
Acoustic Design	Twin Asymmetrical loading
Woofer Size / Voice Coil Diameter / Design	Two 15" / 4" Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Subwoofer Amplifier Requirement	800 W per VHD 2.16 (1600W per VHD 2.15) from a VHD 3200
Speaker Input /Output	
	Input only EP4 (VHD 2.15) Input and Output EP4 (VHD 2.16)
Physical Dimensions	
Height	600mm (23.62")
Width	700mm (27.55")
Depth	750mm (29.52")
Weight	65kg (143lbs)

Product	VHD 4.18	VHD 1.21
System Acoustic Performance		
-3dB Response	36Hz – 100Hz	29Hz – 60Hz
-10dB Response	31Hz – 100Hz	23Hz – 60Hz
Max SPL Long-term	146dB (four VHD4.18's)	135dB (two VHD 1.21's)
Max SPL Peak	149dB (four VHD4.18's)	137dB (two VHD 1.21's)
Crossover Point	100Hz	60Hz
Impedance	8Ω	8Ω
Subwoofer Section		
Acoustic Design	Horn reflex loaded	Large chamber low Q band pass
Woofer Size / Voice Coil Diameter / Design	18" / 4" / Inside Outside	21" / 4" Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose	Epoxy Reinforced Cellulose
Magnet Type	Neodymium	Ferrite
Subwoofer Amplifier Requirement	800W per VHD 4.18 from a VHD 3200	800W per VHD 1.21 from a VHD 3200
Speaker Input /Output		
	Input and Output EP4	Input and Output EP4
Physical Dimensions		
Height	600mm (23.62")	710mm (27.95")
Width	700mm (27.55")	700mm (27.55")
Depth	750mm (29.52")	750mm (29.52")
Weight	52kg (114.4lbs)	60kg (132.0lbs)

VHD Specifications /Amplification

Product	VHD 2000	VHD 3200
Product Description	A 2900W three channel 19" rack-mount controller / amplifier with individual 1600W, 1000W, 300W amplifiers. Contains all control, limiting, crossovers, phase correction and system set up for the VHD 3200 subwoofer. State of the art DSD™ 6.0MHz digital delay line for driver alignment in VHD 2.0 / 1.0	A 3200 watt dual channel 19" rack-mount Subwoofer amplifier. Separate power supply, switches, inputs and outputs ensure high current delivery, and increased reliability.
System Set up / Level Control	Six position selector for a choice of VHD subwoofer combinations to feed a VHD 3200 including a five way setting for use with VHD 1.21 subwoofers. Main input level +/- 6dB	Complete set up provided by VHD 2000. Internal dual channel independent limiting and short circuit protection.
Subwoofer Level Control	Sub level A and B +/- 6dB	N/A
Two per Side Switch	Switch for precise correction of phase and equalization when using two VHD 2.0's and two VHD2000's per side together.	N/A
Full Range Mode	Switch for running a VHD 2.0 in full range mode, down to 60Hz (Note: This setting mutes the subwoofer outputs)	N/A
High Frequency Amplifier		
Amplifier Type	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output.	N/A
Rated Continuous Power	300W	
Distortion	<0.05%	
Operating bandwidth	2.2kHz – 30kHz	
Midrange Amplifier		
Amplifier Type	High efficiency, high current mid frequency switching amplifier.	N/A
Rated Continuous Power	1000W	
Distortion	<0.05%	
Operating Bandwidth	450Hz – 2.2kHz	

Product	VHD 2000	VHD 3200
Mid-Bass Amplifier		
Amplifier Type	High efficiency, high current low frequency switching amplifier.	N/A
Rated Continuous Power	1600W	
Distortion	<0.05%	
Operating Bandwidth	100Hz – 450Hz	
Subwoofer Amplifier		
Amplifier Type	N/A	High efficiency, high current low frequency switching amplifier.
Rated Continuous Power		2 x 1600W
Distortion		<0.05%
Operating Bandwidth		20Hz - 100Hz
Signal Input		
Input Impedance	Variable 10kΩ to 50Ω "Line driver ready"	20kΩ
Input Sensitivity	1.0V rms	1.0V rms
Outputs	Main Through output, sub A and B out	N/A
Insert Connectors	Mid High insert point, A and B Sub insert points	N/A
Speaker Outputs	One EP6 for VHD 2.0 / 1.0	Two EP4 for VHD series subwoofers
Physical Dimensions		
Height	177.8mm (7.0")	177.8mm (7.0")
Width	483mm (19.0")	483mm (19.0")
Depth	495mm (19.5")	495mm (19.5")
Weight	30kg (66lbs)	35kg (88lbs)
Power Connector	Neutrik PowerCon®	2 X Neutrik PowerCon®
Operating Voltage	100-120V @ 60Hz 230-250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz
Recommended Amperage	30A 115V 16A 230V	2 X 20A 115V 2X 10A 230V

VHD Specifications / Electronics

Product	LD4
Product Description	4 channel Line Driver with independent inputs and outputs for maintaining signal integrity over long cable lengths.
Input Channels Input Impedance	4 20K Ω
Output Channels Output Impedance	4 50 Ω
Maximum output voltage As above with no Load	7V rms 14V rms
Mic input channel features	N/A
RCA and Line input features	N/A
Physical Dimensions	
Height Width Depth Weight	44.5mm (1.75") 483mm (19.0") 177.8mm (7.0") 2.9kg (6.5lbs)
Power Connector	IEC 320
Operating Voltage	100-120V @ 60Hz 230-250V @ 50Hz

SD8	VHD DEMO PREAMP
<p>Stage preamp with 8 individual mic inputs, phantom power, input gain, 20dB pad and line drivers to maintain audio signal integrity over long cable lengths.</p>	<p>5 Channel demo preamp with mic input, stereo balanced line in, and stereo RCA unbalanced in. 2 stereo outputs with built in line drivers maintain audio signal integrity over long cable lengths.</p>
<p>8 2KΩ</p>	<p>5 2KΩ Mic / 20 KΩ Balanced in /10 KΩ RCA in</p>
<p>8 50Ω</p>	<p>2 switched stereo outputs A and B (4 channels) 50Ω</p>
<p>7V rms 14V rms</p>	<p>7V rms 14V rms</p>
<p>Phantom power, input pad, input level, Led level indicators</p>	<p>Phantom power, Variable high pass filter, 4 band EQ, input pad, Input level</p>
<p>N/A</p>	<p>Two band EQ, Input Pad, Switchable stereo RCA or stereo balanced line in.</p>
<p>89.0mm (3.0") 483mm (19.0") 177.8mm (7.0") 5.5kg (12.1lbs)</p>	<p>44.5mm (1.75") 483mm (19.0") 177.8mm (7.0") 2.5kg (5.5lbs)</p>
<p>IEC 320</p>	<p>IEC 320</p>
<p>100-120V @ 60Hz 230-250V @ 50Hz</p>	<p>100-250V @ 50-60Hz</p>