

VHD2.21 Technical Data Sheet

Product code: KVV 987 249

Introduction

Originally designed for Super Live Audio as part of a VHD system, the VHD2.21 is voiced for both Live Music but also excels in the field of Club and Dance Music. In this situation it works very effectively, operating down to 25Hz, alongside other VHD products, the smaller ES range, or as an incredible stand-alone subwoofer that can complement any other manufacturers systems. Unlike traditional 21" subwoofers that are typically designed as more of an effect subwoofer, the VHD2.21 boasts tight, fast delivery and extreme dynamics, even at higher bass frequencies – qualities rarely found in such a large unit. One 2.21 can be driven by a single VHD3200. Whilst larger than KV2 Audio’s existing subwoofers it still fits in with the company’s philosophy of providing maximum performance from within a compact footprint.

Features

- Designed in response to calls for a high output ultra low frequency subwoofer solution
- Double 21" subwoofer with an input power handling capability of 3200W
- Incredibly efficient, the 2.21 has a sensitivity of 106dB at one watt/one meter and can produce output levels in excess of 140dB
- Frequency response from 28Hz through to 240Hz



Application

Especially designed to add extreme low frequency-last octave extension with exceptional high output to the VHD2.0 and VHD1.0 in conjunction with other VHD subwoofers

- Large scale live music and playback performance
- Hire and Production
- Large Concert venues
- Cinema
- Nightclub
- Fixed installation
- Easily incorporated into multiple system projects with ES and SL products

System Acoustic Performance	
Max SPL Long-term	143dB (2xVHD2.21)
Max SPL Peak	149dB (2xVHD2.21)
-3dB Response	34Hz to 180Hz
-10dB Response	28Hz to 240Hz
Sensitivity	106dB
Impedance	8Ω
Crossover Point	60Hz to 120Hz
Low Frequency Section	
Acoustic Design	Bandpass with low port losses
Subwoofer Amplifier Requirement	3200W /1x VHD2.21 (bridged VHD3200 amp.)
Woofer Size / Voice Coil Diameter	2 x 21" / 6"
Magnet Type	Neodymium Advanced Ventilated
Diaphragm Material	Epoxy Reinforced Cellulose

Speaker Input	
Speaker Input	AP4 male
Cabinet	
Cabinet Material	Baltic birch
Handles	8
Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	
Height	700 mm (27.56")
Width	1080 mm (42.52")
Depth	1200 mm (47.24")
Weight	155 kg (341.7lbs)

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Architectural Specifications

The Loudspeaker shall be a large chamber-Twin Asymmetric VLF Low port- loss design, using SLA Technology - (Super Live Audio), and shall only be driven and controlled by a dedicated – matched Amplifier Controller.

The Loudspeaker enclosure shall consist of two 21" Neodymium magnet structure Low Frequency-high definition-output drivers.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, alluminium steel bar tensioners with toughened impact and wear resistant paint finish. The Loudspeaker woofer components shall be protected by acoustically transparent rigid metal grilles supported by absorbent rubber seals. The enclosure shall incorporate four ergonomically designed recessed handles in each side panel and shall incorporate an additional two rear handles on the top and bottom panels. The enclosure shall include multiple high impact, low friction feet on the bottom and side panels to allow enclosure locking into other VHD cabinets and easy movement.

The enclosure shall incorporate a recessed connection panel with integral cable secure point and will be fitted with a single input Amphenol AP4 locking connector. The enclosure shall include four attached heavy duty wheels for transportation.

The Loudspeaker shall have a maximum long term pressure level of 138dB, with a total peak power handling capacity of 3200W, a measured frequency response of 34Hz to 180Hz (-3dB), 28Hz to 240Hz (-10dB). The Nominal Impedance shall be 8 ohm.

The Enclosure dimensions shall be: 700 mm / 27.56" x 1080 mm / 42.52" x 1200 mm / 47.24".

The Enclosure shall not exceed a weight of 155 kg / 341.7lbs.

The Loudspeaker shall be the KV2 Audio VHD2.21. The dedicated Amplifier/Controller shall be the KV2 Audio VHD3200.

Dimensional Drawings

