

# VHD1.21 Technical Data Sheet

## Introduction

Single 21", Low Q band-pass subwoofer system that adds extension and weight for applications where you want to feel, as well as hear, very high definition audio. Working down to 23Hz with an efficiency for two boxes of 102dB, it shares the same footprint as the other VHD subwoofers in a compact lightweight easily transported package. Alongside the VHD2.16, it forms part of a remarkable five way active system.

## Features

- Professional, Baltic birch construction with highly resistant polymer coating
- Very High Definition ultra low frequency reproduction
- 135dB sustained output / 137dB peak (using 2 units of VHD1.21)
- Large-chamber bass reflex low Q bandpass design
- Single 21" low frequency driver with 4" (100 mm) inside/outside, epoxy baked, high temperature voice coil assembly and carbon fibre reinforced cone assembly
- Proprietary side handles (6) for simplified handling and carrying
- High impact low friction feet, allowing lock- in to other VHD cabinets and easy cabinet movement.
- Front locking aluminium VHD wheel boards with wraparound hardwood bumpers
- Weather proofing option and special paint finishes available on request



## Application

Specifically designed to add extreme low frequency extension to the VHD2.0 and VHD1.0 in conjunction with other VHD subwoofers

- Live performance
- Fixed installation
- Cinema
- Theatre

System Acoustic Performance	
Max SPL Long-term	135dB (2x VHD1.21)
Max SPL Peak	137dB (2x VHD1.21)
-3dB Response	29Hz to 60Hz
-10dB Response	23Hz to 60Hz
Impedance	8Ω
Crossover Point	60Hz

Low Frequency Section	
Acoustic Design	Large chamber low Q band pass
Subwoofer Amplifier Requirement	800W /1x VHD1.21 (VHD 3200 amp.)
Woofer Size / Voice Coil Diameter / Design	21" / 4" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Speaker Input	
Speaker Input	AP4 male

Speaker Output	
Speaker Output	AP4 female

Cabinet	
Cabinet Material	Baltic birch
Handles	6
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	700 mm (27.55")
Width	700 mm (27.55")
Depth	750 mm (29.52")
Weight	60 kg (132.0lbs)

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## Architectural Specifications

The Loudspeaker shall be a large chamber-Low Q band - pass 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 one 21" Ferrite magnet structure Low Frequency-high definition-output driver.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant paint finish. The Loudspeaker woofer component shall be protected by an acoustically full size transparent rigid metal grille supported by absorbent rubber seals.

The enclosure shall incorporate two ergonomically designed recessed handles in each side panel and shall incorporate an additional single handle on the top and bottom panels. The enclosure shall include four high impact, low friction feet on the top and bottom panel 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 and a corresponding thru/output for connection to other VHD subwoofers. The enclosure shall include four recessed Butterfly clip receptacles on each side panel for attachment of a protective Wheel board. The Loudspeaker shall have a maximum long term pressure level of 135dB, (2 x VHD1.21), with a total peak power handling capacity of 800W, a measured frequency response of 29Hz to 60Hz (-3dB), 23Hz to 60Hz (-10dB).

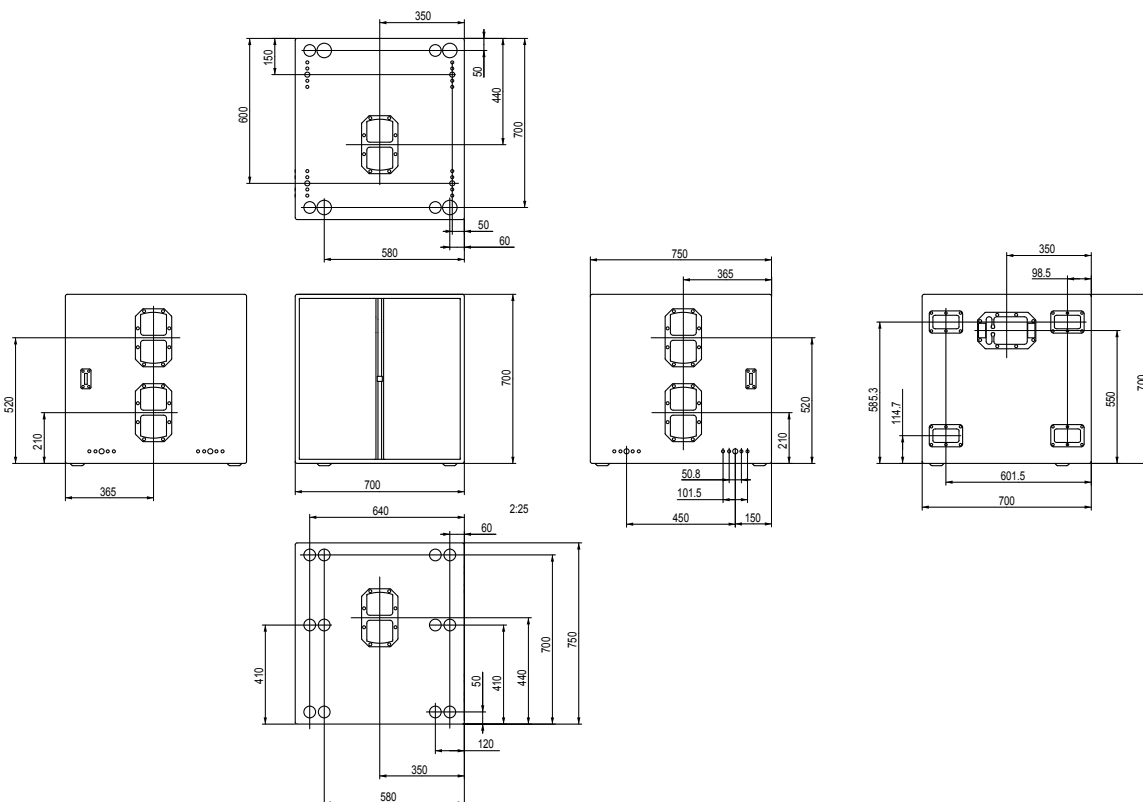
The Nominal Impedance shall be 8 ohm.

The Enclosure dimensions shall be: 700 mm / 27,55" x 700 mm / 27.55" x 750 mm / 29.52"

The Enclosure shall not exceed a weight of 60 kg / 132lbs.

The Loudspeaker shall be the KV2 Audio VHD1.21. The dedicated Amplifier/Controller shall be the KV2 Audio VHD3200.

## Dimensional Drawings



The future of sound. Made perfectly clear.



KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic  
Tel.: +420 383 809 320  
Email: [info@kv2audio.com](mailto:info@kv2audio.com) | Web: [www.kv2audio.com](http://www.kv2audio.com)