

# VHD5.0 Mid Hi Module Technical Data Sheet

## Introduction

The VHD5.0 is a three-way enclosure handling low mids, mids and highs over a frequency range from 45Hz through to 20kHz. It incorporates eight front-loaded ten inch low mid drivers, six horn-loaded eight inch mid range drivers and three 3" NVPD (Nitrate Vapour Particle Deposition) Titanium compression drivers on a custom designed, manifold horn assembly with summing waveguide. With the capacity to run full range down to 45Hz the VHD5.0 is usually crossed over at 70Hz to the VHD4.21 Active Sub Bass Modules. Both the VHD5.0 and VHD8.10 cabinets incorporate very simple to use integrated fly ware that links cabinets together quickly and easily.

## Application

Designed as an extreme high output and performance mid-hi unit as part of the VHD5 Constant Power Point Source systems for large arenas and stadiums

- Medium to large concert venues
- Hire and Production
- Large Clubs and Arenas



System Acoustic Perfomance	
Max SPL Long-term	147dB (with VHD8.10)
Max SPL Peak	150dB (with VHD8.10)
-3dB Response	45Hz to 20kHz (with VHD8.10)
-10dB Response	45Hz to 22kHz (with VHD8.10)
Full Range mode -3dB Response	50Hz to 20kHz (with VHD8.10)
Crossover Point	70Hz, 400Hz, 2.0kHz (with VHD8.10)

High Frequency Section	
Acoustic Design	Horn Loaded
High Horn Coverage Horizontal / Vertical	80° x 30°
High Frequency Amplifier Requirement	VHD5000
Throat Exit Diameter / Diaphragm Size	3x 1.4" / 3.0"
Diaphragm Material	Nitride Titanium
Magnet Type	Neodymium

Mid Range Section	
Acoustic Design	Horn Loaded
Mid Horn Coverage Horizontal / Vertical	80° x 30°
Low Mid Amplifier Requirement	VHD5000
Woofer Size / Voice Coil Diameter / Design	6x 8" / 3.0" / Trans Coil
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Low Mid Section	
Acoustic Design	Horn Loaded
Low Mid Amplifier Requirement	VHD5000
Woofer Size / Voice Coil Diameter / Design	8x 10" / 3.0" / Trans Coil
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium

Physical Dimensions	
Height	1125 mm (44.29")
Width	1110 mm (43.7")
Depth	500 mm (19.69")
Weight	151 kg (332.2lbs)

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## Architectural Specifications

The Loudspeaker shall utilise a combination of Direct Radiator Bass Reflex and Horn loaded acoustic application for extreme output, using SLA Technology - (Super Live Audio), and shall only be driven and controlled by a dedicated – matched Amplifier Controller- the VHD5000.

The Loudspeaker enclosure shall consist of eight front loaded 10" Neodymium magnet structure Low Mid-high definition-output, six horn loaded 8" Mid range high definition -output drivers and three 3" NVPD High frequency drivers on a manifold horn assembly.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant plastic grain texture paint finish.

The Loudspeaker woofer components 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. The enclosure shall incorporate two side top and bottom propriety integrated flyware points, by employment of a dedicated PIN System for single or multiple suspension, as well as securing to the dedicated wheel cart for movement and transportation. The enclosure shall include four high impact, low friction feet on the bottom panel and multiple sunken locators on the top 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 LKI 08 MP and a LKI 08 FV Link locking connector.

The Loudspeaker shall have a maximum long term pressure level of 147dB (with VHD8.10), a measured frequency response of 45Hz to 20KHz with VHD8.10 (-3dB), 45Hz to 22KHz with VHD8.10 (-10dB). Full range mode 50Hz to 20KHz with VHD8.10 (-3dB).

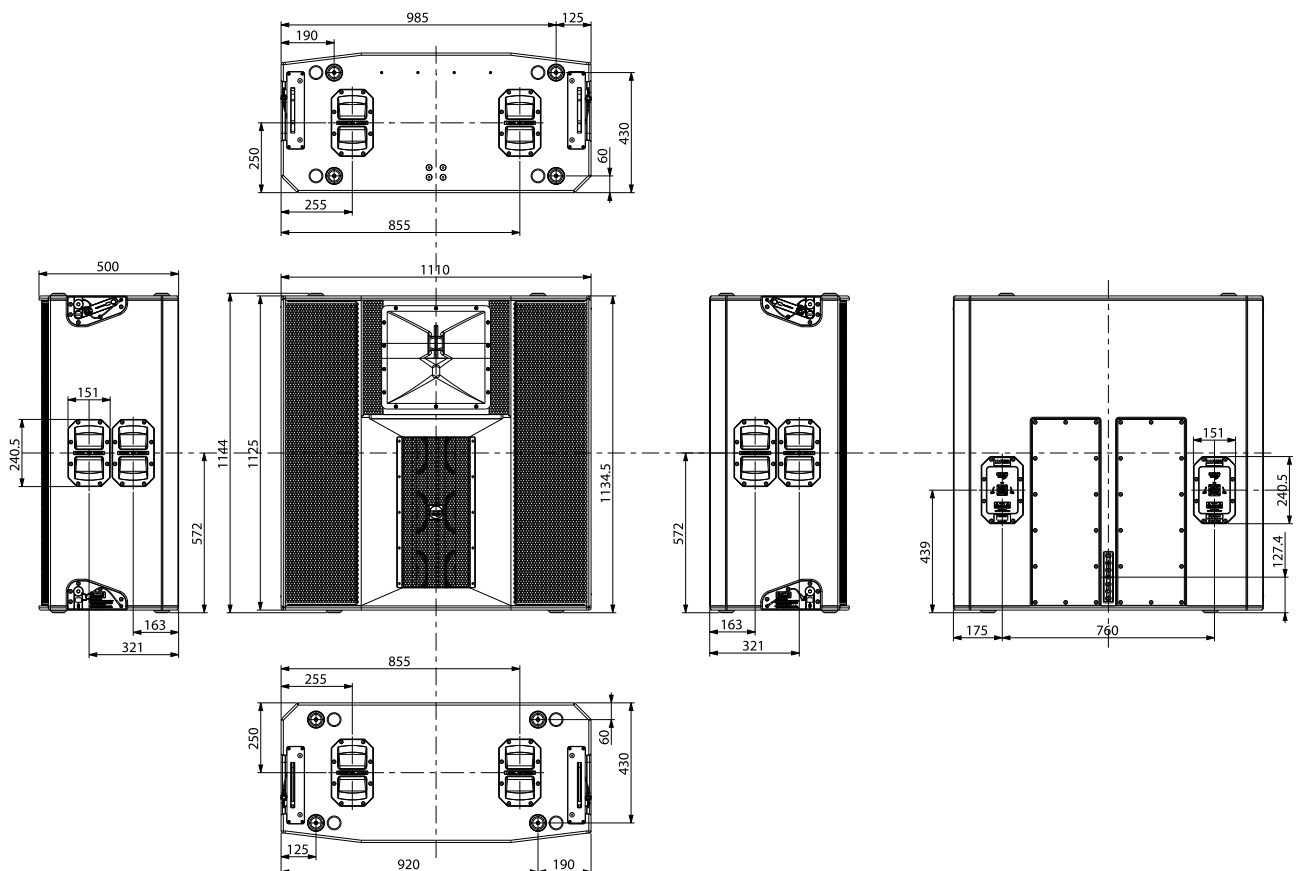
The Enclosure dimensions shall be: 1125 mm / 44.29" x 1110 mm / 43.7" x 500 mm / 19.69".

The Enclosure shall not exceed a weight of 151kg / 332.2 lbs.

The Loudspeaker shall be the KV2 Audio VHD5.0. The dedicated Amplifier/Controller shall be the KV2 Audio VHD5000.

The dedicated fly ware shall be the VHD5.0 FLYBAR System.

## Dimensional Drawings



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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)