VHD Series Subwoofers

User Guide

· VHD2.16 · VHD2.18J · VHD4.18 · VHD1.21 · VHD2.21/ VHD2.21R

The Future of Sound. Made Perfectly Clear.

At KV2 Audio our vision is to constantly develop technologies that eliminate distortion and loss of information providing a true dynamic representation of the source.

Our aim is to create audio products that absorb you, place you within the performance and deliver a listening experience beyond expectations.

Important safety instructions

Before using your VHD Subwoofers, be sure to carefully read the applicable items of these operating instructions and the safety suggestions.

1. **Read all product instructions.**
2. **Keep printed instructions, do not throw away.**
3. **Respect and rewiew all warnings.**
4. **Follow all instructions.**
5. **Do not use this unit near water, in unprotected out door areas or in rain or wet conditions.**
6. **Clean only with dry cloth.**
7. **Install in accordance with KV2 Audio's recommended installation instructions.**
8. **Do not install near any heat sources such as heat radiators, heat registers, stoves or other apparatus that produce heat.**
9. **Only use accessories specified by KV2 Audio.**
10. **Install the product only with rigging specified by KV2 Audio, or sold with the loudspeaker.**
11. **Unplug this loudspeaker during lightning storms or when unused for long periods of time.**
12. **Refer all servicing to qualified service personnel. Servicing is required when the loudspeaker has been damaged in any way, liquid has been spilled or objects have fallen into the loudspeaker; rain or moisture has entered the loudspeaker; the loudspeaker has been dropped; or when for undetermined reasons the loudspeaker does not operate normally.**
13. **There are no user serviceable parts inside and removable may void the warranty.**
14. **An experienced user shall always supervise this professional audio equipment.**

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

SAFETY SUMMARY

To reduce the risk of electric shock, disconnect the loudspeaker from the AC mains before installing audio cable. Reconnect the power cord only after making all signal connections. Connect the loudspeaker to a twopole, three- wire grounding mains receptacle. The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes. Do not allow water or any foreign object to get inside the loudspeaker. Do not put objects containing liquid on or near the unit. To reduce the risk of overheating the loudspeaker, avoid exposing it to direct sunlight. Do not install the unit near heat-emitting appliances, such as a room heater or stove. This loudspeaker contains potentially hazardous voltages. Do not attempt to disassemble the unit. The unit contains no user serviceable parts, repairs should be performed only by factory trained service personnel.

Content

VHD2.16
BASS MODULE

VHD Subwoofer Enclosure

VHD2.16 - part number KVV 987 142

Application

Specifically designed to accompany the VHD2.0 and VHD1.0 as a true full range high output system for live performance and music

- Hire and Production
- Concert venues
- Large Theatres
- Scalable into multiple large systems
- Fixed installation

Introduction

The VHD2.16 double 15" subwoofer is a development of KV2 Audio's ES 2.5 design that has become a standard for compact, high output subwoofer devices. Acoustical design is based on extreme loading of asymmetrical chambers delivering exceptional output and control. The cabinet is built to the same robust standards as the VHD4.18 and delivers output in excess of 140dB when configured in a pair. It also functions as a very effective upper bass cabinet when used alongside the ultra low frequency VHD1.21 or 2.21 subwoofers as part of a five way active system. It is ideal for use in live applications that require reproduction of low frequencies with very high transient content at high output levels.

The VHD2.16 Bass Module consists of a purpose designed Very High Definition passive enclosure, containing two custom designed 15"" woofers and a design that has been applied based on extreme loading of asymmetrical chambers to attain the optimum speaker loading , output, control and performance . The end result is a fast, dynamic, Very High Definition sub woofer, truly capable of reproducing the articulation in a bass guitar, whilst also producing definition of the Bass drum Kick.

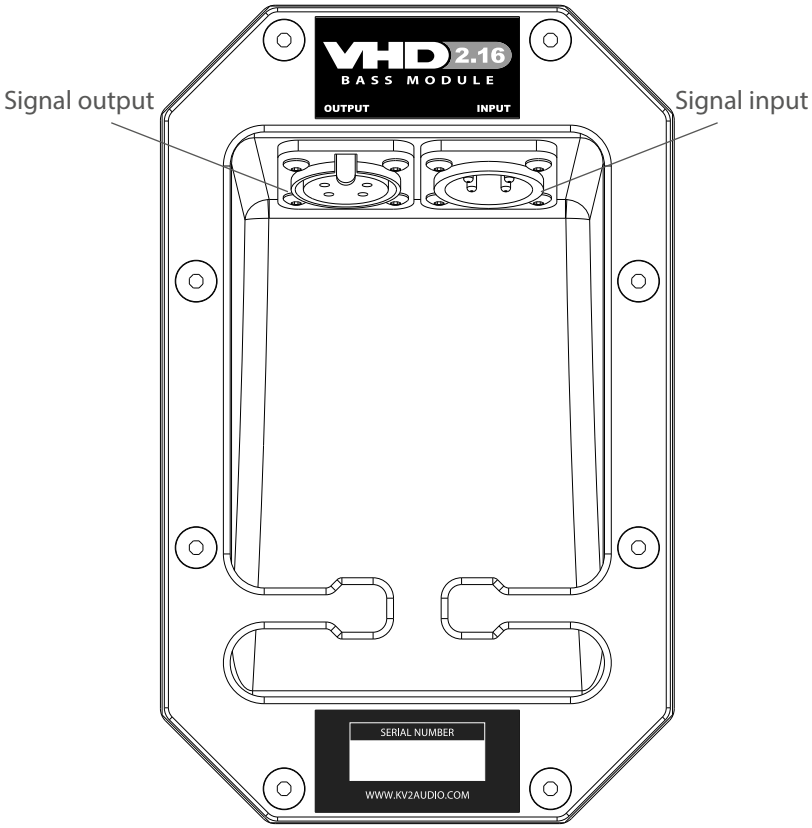
Acoustic Components

The VHD2.16 woofer technology is based around high efficiency, high power woofer designs. The device features two 15" woofers, with high temperature 4" (100mm) inside/outside epoxy baked polymide voice coil assembly's, that undergoes multiple baking and curing processes as well as advanced magnetic structures with complex cooling systems. The woofer cone has been specially developed to withstand the demanding and extreme loading environment within the dual chambers.

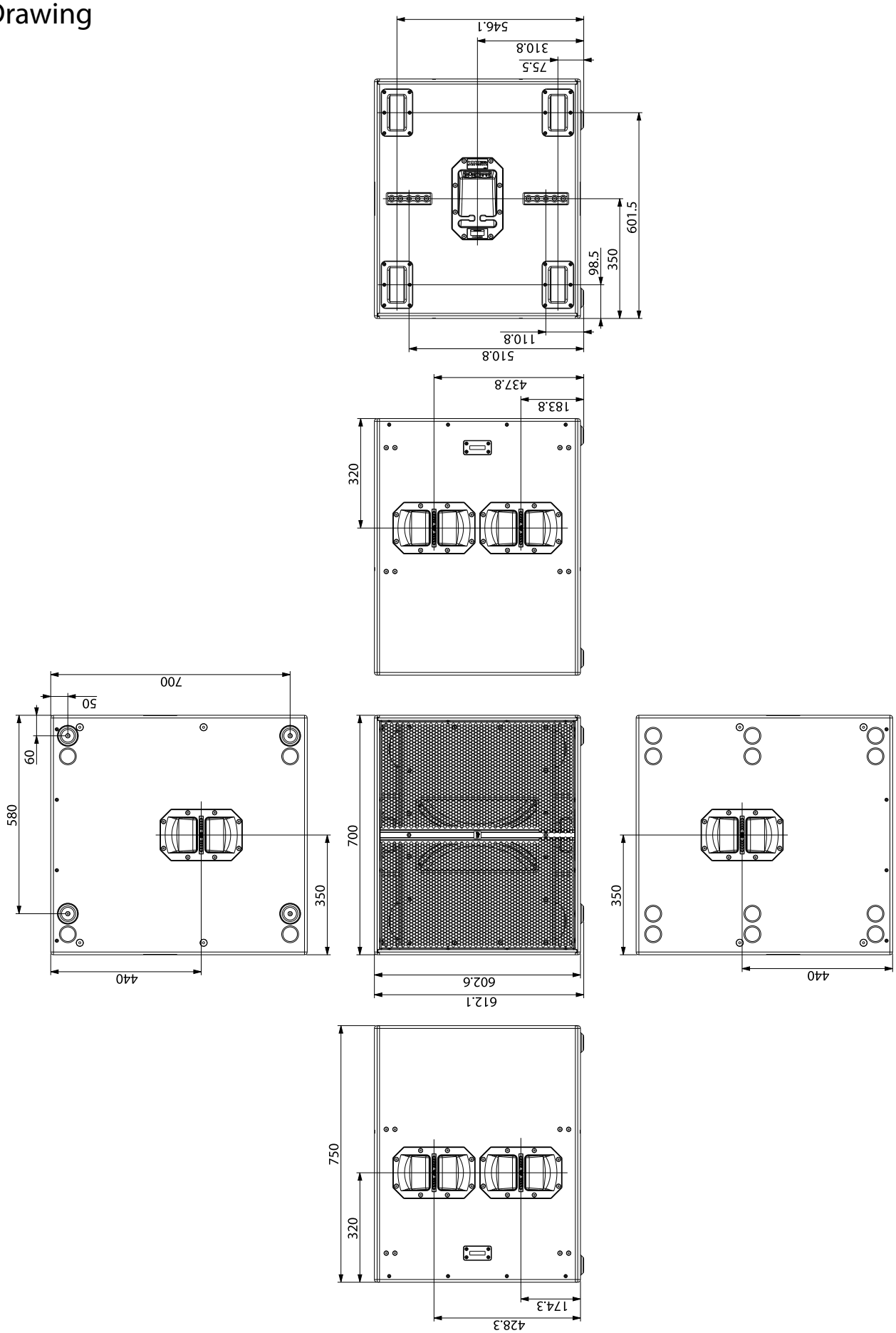
Enclosure Design

The VHD2.16 is a compact, Twin Asymmetric chamber Bandpass design, in a lightweight Baltic Birch enclosure featuring a large number of ergonomically designed parts that make it an easy speaker to set up and use. There are 4 side handles and one top and bottom that make it easy to pick up and reposition the unit in a natural - instinctive and intuitive manner. The VHD2.16 Sub woofer Module employs low friction feet to enable easy locking into existing and other KV2 Audio VHD cabinets and for easy movement.
Flytrack is fitted within the enclosure to allow easy flying and suspension via the KV2 Audio propriety certified Flyware system.

Rear Panel


Signal output
Signal input
VHD 2.16
BASS MODULE
OUTPUT
INPUT
SERIAL NUMBER
WWW.KV2AUDIO.COM

Drawing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110.8
510.8
437.8
183.8
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700
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580
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440
700
602.6
612.1
350
440
750
320
174.3
428.3

Specifications

System Acoustic Perfomance	
Max SPL Long-term	143dB (4x VHD2.16)
Max SPL Peak	149dB (4x VHD2.16)
-3dB Response	37Hz to 100Hz
-10dB Response	32Hz to 130Hz
Impedance	8Ω
Crossover Point	70 to 130Hz

Low Frequency Section	
Acoustic Design	Twin Asymmetrical loading
Low Frequency Amplifier Requirement	1600W /2x VDH2.16 (VHD3200 amp.)
Woofer Size / Voice Coil Diameter / Design	2x 15“ / 4“ / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Advanced ventilated neodymium

Speaker Input	
Speaker Input	AP4 male

Speaker Output	
Speaker Output	AP4 female

Cabinet	
Cabinet Material	Baltic birch
Handles	6
Color	Black (wear resistant polymer coating)

Physical Dimensions	
Height	600mm (23.62")
Width	700mm (27.55")
Depth	750mm (29.52")
Weight	65kg (143lbs)

Amplification and control requirements	
Amplification and control	VHD3200

Cover for VHD2.16
part name: **Cover VHD2.16**
part number: **KVV 987 155**
- used with cart

Cart for VHD2.16, VHD4.18
part name: **Cart for VHD2.16, VHD4.18**
part number: **KVV 987 100**
- with hardwood bumpers

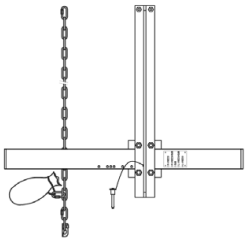
Bass speaker cable LF15, AP4 connectors - 1,5 m
part name: **LF15**
part number: **KVV 987 121**
- 1,5 m (5ft)
- for Bass Module daisy-chaining

Bass speaker cable LF40, AP4 connectors - 4 m
part name: **LF40**
part number: **KVV 987 122**
- 4 m (13ft)
- for Bass Module hook-up

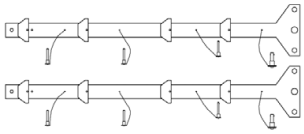
Bass speaker cable LF100, AP4 connectors - 10 m
part name: **LF100**
part number: **KVV 987 123**
- 10 m (33ft)
- for Bass Module hook-up

Bass speaker cable LF200, AP4 connectors - 20 m
part name: **LF200**
part number: **KVV 987 124**
- 20m (66ft)
- for Bass Module hook-up

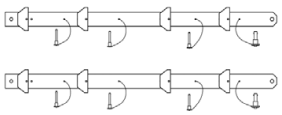
Fly Bar for VHD Systems
part name: **Fly Bar for VHD Systems**
part number: **KVV 987 252**



VHD Bass Extension Flybar
part name: **VHD Bass Extension Flybar**
part number: **KVV 987 308**



VHD Bass Fly Bar Arm
part name: **VHD Bass Fly Bar Arm**
part number: **KVV 987 307**



VHD2.18J
BASS MODULE

VHD2.18J - part number KVV 987 373

Application

Especially designed to add extreme low frequency extension with exceptional high output to the VHD, SL, ES and ESR ranges, with or without other KV2 Audio subwoofers

- Large scale live music and playback performance
- Nightclub and EDM Extreme Resolution
- Large Concert venues
- Hire and Production
- Fixed Installation
- Cinema
- Easily incorporated into projects with VHD, SL, ES and ESR products

Introduction

The new VHD2.18J is a direct radiating bass-reflex speaker containing two 18" high performance transducers. These 18" transducers are designed to withstand very high power levels. The optimised, high efficiency, bass-reflex design of the VHD2.18J produces considerably more output than other similar double 18" enclosures. Constructed of Baltic Plywood, integrated proprietary Flyware allows for fast rigging of multiple cabinets when they are needed to be flown. An ideal subwoofer for any application where direct radiating bass speaker reproduction is required.

Acoustic Components

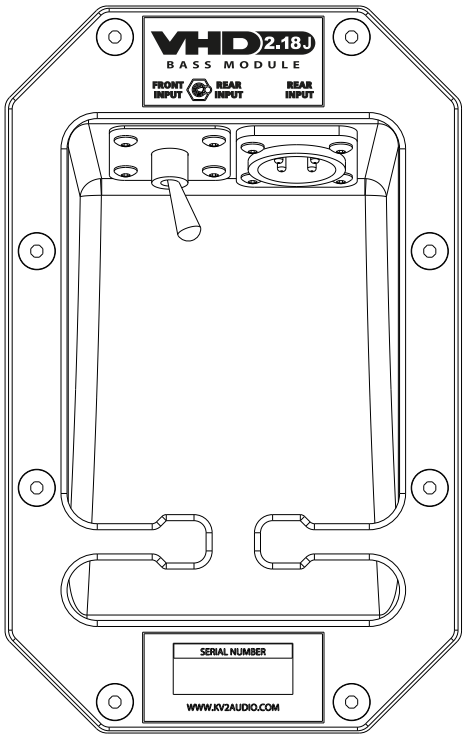
The VHD2.18 woofer technology is based around a custom made high efficiency, high power woofer design. The device features two 18" woofers, with high temperature 4.5" (116mm) multiple layer aluminium voice coil assemblies, with a double Silicone spider for optimised compliance. The advanced magnetic structure and ventilated voice coil gap improves cooling dramatically, which in turn significantly reduces power compression. The woofer cone has been specially developed to withstand the demands of high power and very low frequency extension.

Enclosure Design

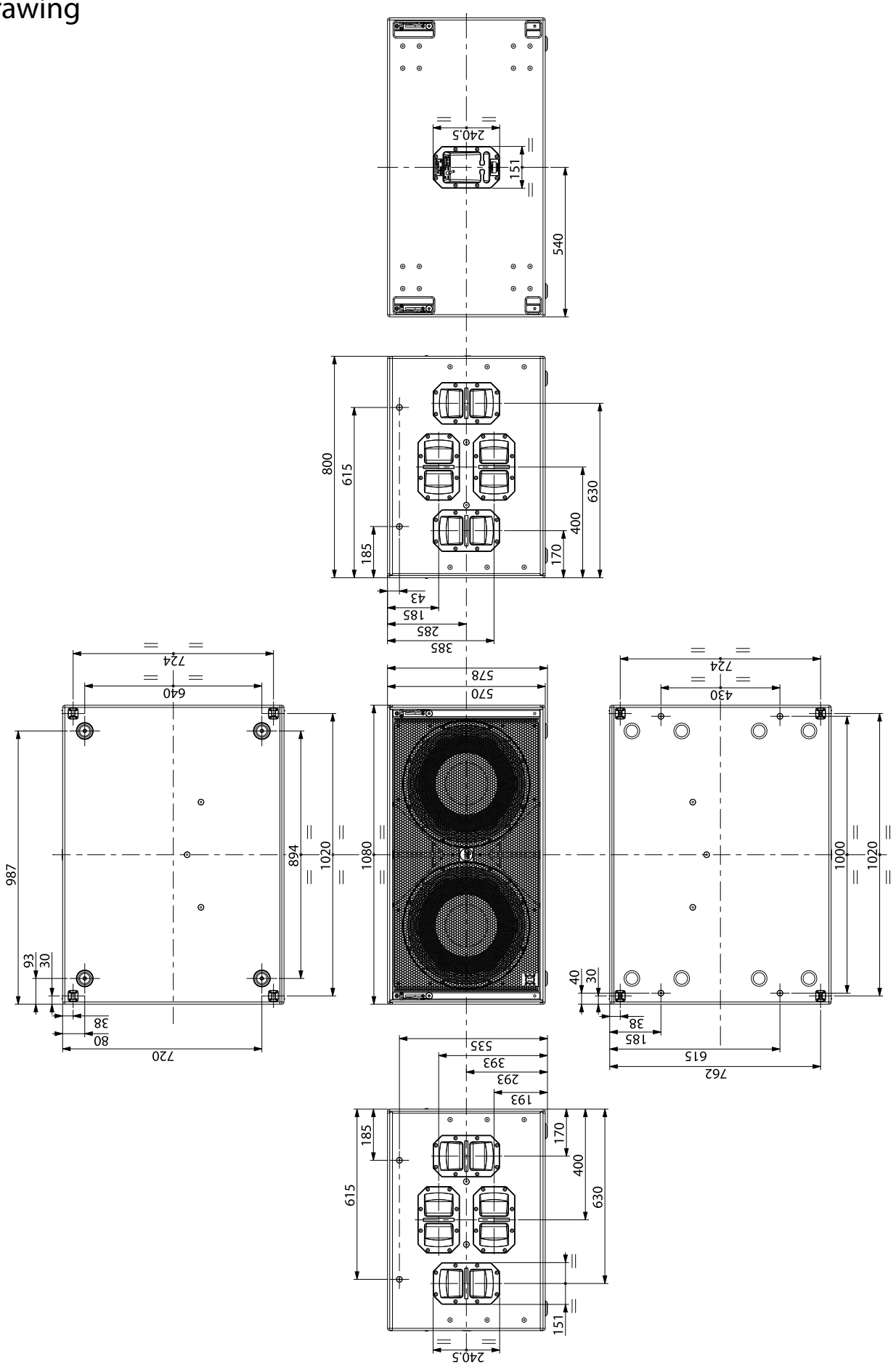
The VHD2.18J is an optimised, high efficiency bass-reflex design, with a revolutionary new design characteristic (patent pending) developed by KV2 Audio Engineering. This brand new design gives considerably more output than other similar double 18" enclosures, whilst maintaining the full low frequency bandwidth. The cabinet is a Baltic Birch enclosure featuring a large number of ergonomically designed parts that make it an easy speaker to set up and use. There are 6 side handles allowing you to reposition the unit in a natural and intuitive manner. The VHD 2.18J Sub woofer Module also employs low friction feet to enable easy movement and locking into other VHD 2.18J cabinets. A unique new Flying system is fitted discretely within the enclosure to allow easy flying of single or multiple cabinets using the KV2 Audio propriety certified Flyware system.

Rear Panel

Front Input Switch
(Cardioid mode)



Drawing


240.5
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724
640
578
570
430
987
894
1020
1080
1000
93
30
38
80
720
40
762
535
393
293
193

Specifications

System Acoustic Perfomance	
Max SPL Long-term	136dB
Max SPL Peak	142dB
-3dB Response	32Hz to 200Hz
-10dB Response	28Hz to 250Hz
Impedance	4Ω
Crossover Point	70Hz to 150Hz

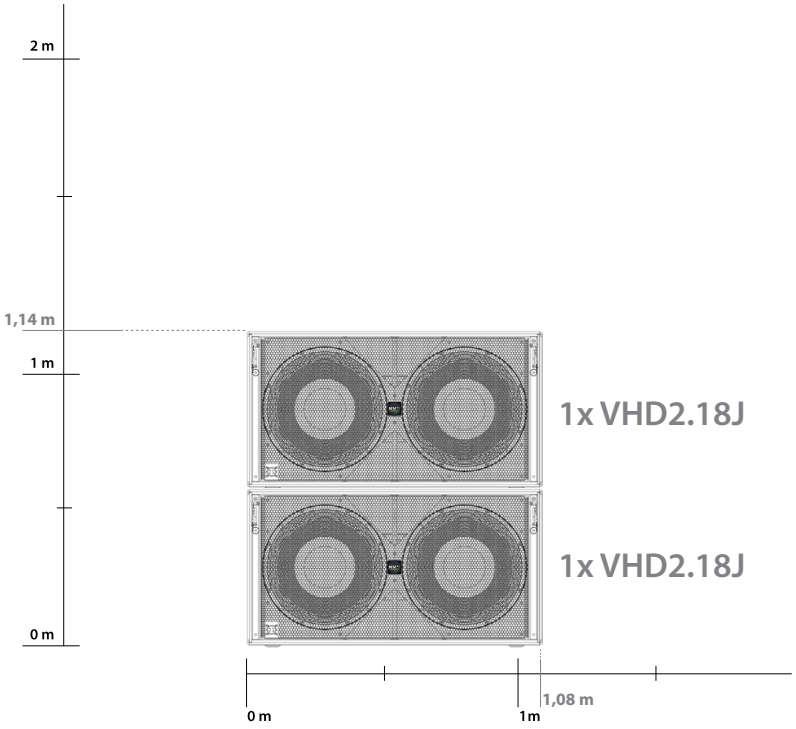
Low Frequency Section	
Acoustic Design	High Efficiency, Front Loaded, Bass Reflex
Low Frequency Amplifier Requirement	1600W / 1x VHD2.18J per channel of VHD3200 amp
Number of Drivers	2
Woofer Size / Voice Coil Diameter / Design	18"/4.5"
Magnet Type	Neodymium
Diaphragm Material	Epoxy Reinforced Cellulose

Speaker Input	
Speaker Input	AP4

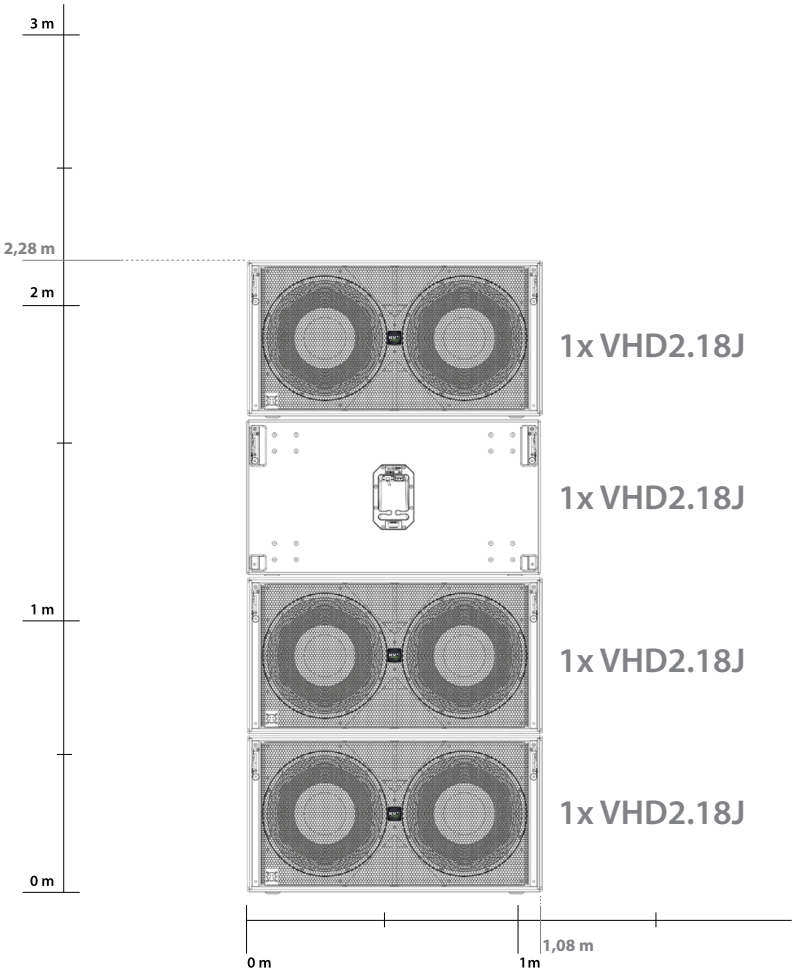
Cabinet	
Cabinet Material	Baltic birch
Handles	8
Color	Black (wear resistant polymer coating)

Physical Dimensions	
Height	570 mm (22.44”)
Width	1080 mm (42.52”)
Depth	800 mm (31.5”)
Weight	93 kg (205 lbs)

Double stack Configuration



Cardioid Configuration



Flying instructions

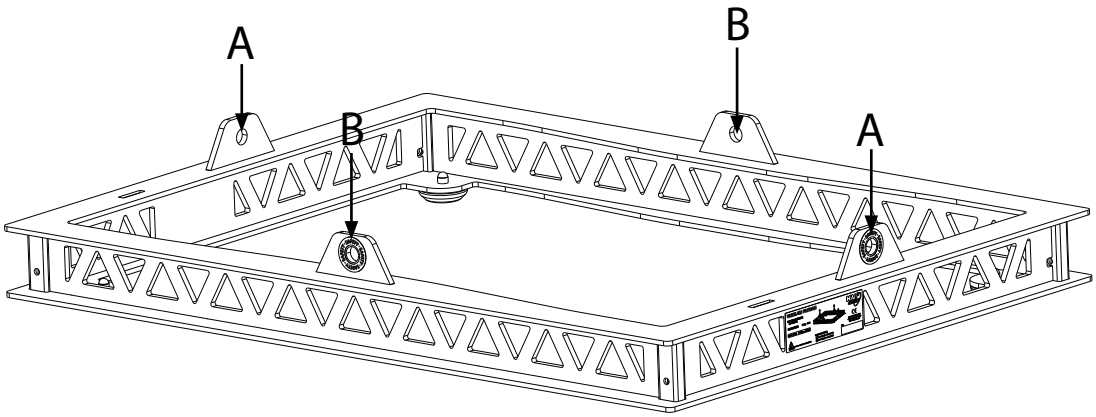
FLYBAR VHD2.18J

MAXIMUM ALLOWANCE:
12x VHD2.18J

FLYBAR WEIGHT:
34 kg (75 lbs)

MAX. LOAD:
1750 kg (3858 lbs)

HANGING OPTION:	
A	for VHD2.18J - B for SAFETY
B	for VHD2.18J - A for SAFETY



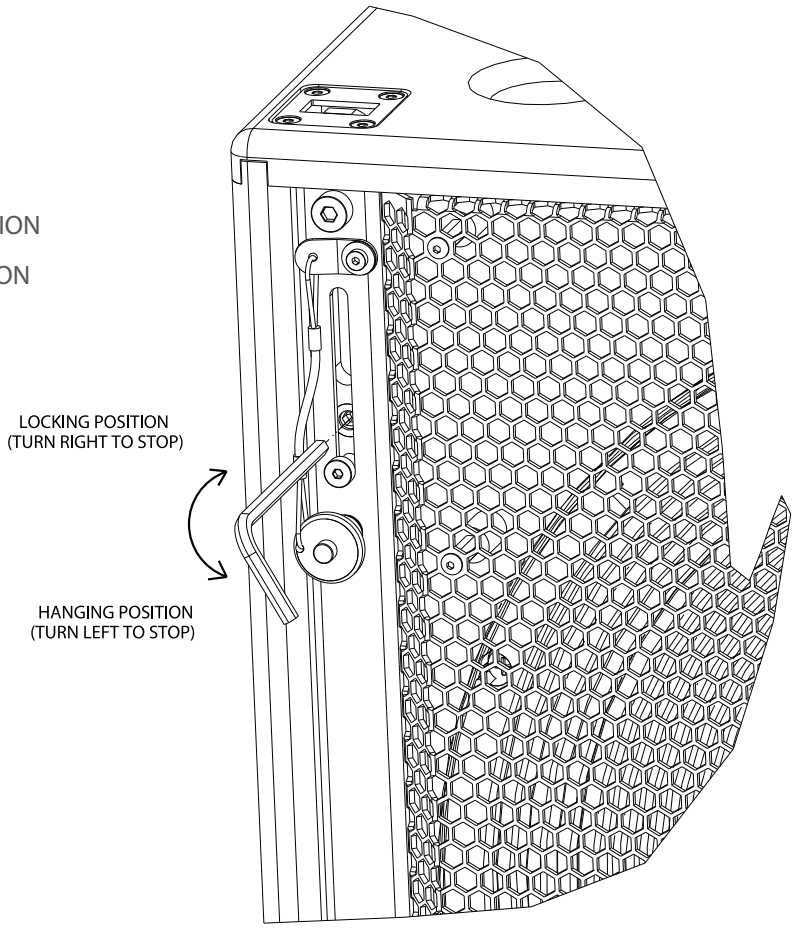
Instructions for hanging or locking positions

1. PLACE THE ALLEN KEY IN THE SLOT

2A. TURN RIGHT TO STOP FOR LOCKING POSITION

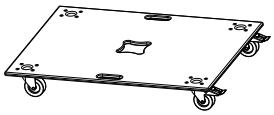
2B. TURN LEFT TO STOP FOR HANGING POSITION

(ALL 4 HANGING SLOTS)

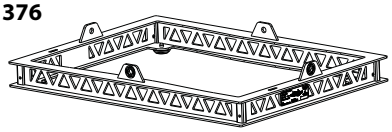


Cover for 2x VHD2.18J
part name: **Cover for 2x VHD2.18J**
part number: **KVV 987 388**
- used with or without cart

Cart for VHD2.18J
part name: **Cart for VHD2.18J**
part number: **KVV 987 378**
- wheels (125mm) included



Flybar for VHD2.18J
part name: **Flybar for VHD2.18J**
part number: **KVV 987 376**



Wheel kit (125mm)
part name: Wheel kit (125mm)
part number: **KVV 987 355**
Package includes:
- 4x Wheel (2x with brake)
- 16x M8x16mm Screw Hexagon Head
- 16x M8 Washer Serrated

Bass speaker cable LF15, AP4 connectors - 1,5 m
part name: **LF15**
part number: **KVV 987 121**
- 1,5 m (5ft)
- for Bass Module daisy-chaining

Bass speaker cable LF40, AP4 connectors - 4 m
part name: **LF40**
part number: **KVV 987 122**
- 4 m (13ft)
- for Bass Module hook-up

Bass speaker cable LF100, AP4 connectors - 10 m
part name: **LF100**
part number: **KVV 987 123**
- 10 m (33ft)
- for Bass Module hook-up

Bass speaker cable LF200, AP4 connectors - 20 m
part name: **LF200**
part number: **KVV 987 124**
- 20m (66ft)
- for Bass Module hook-up

VHD4.18
BASS MODULE

VHD Subwoofer Enclosure

VHD4.18 - part number KVV 987 079

Application

Specifically designed to accompany the VHD2.0 and VHD1.0 as a true full range high output system for live performance and music

- Hire and Production
- Concert venues
- Large Theatres
- Scalable into multiple large systems
- Fixed installation

Introduction

The VHD4.18 is a quad 18" subwoofer system, comprising of four individual loudspeaker cabinets. The objective is to make the system easy to transport and setup. When assembled, the VHD4.18 system becomes a high efficiency neodymium subwoofer system with immense output. The system was designed with very high sensitivity in mind; it provides 110 dB at 1W/1m and a tremendous output of 149dB when running at full power Each cabinet incorporates a large port area that becomes an optimized horn aperture when all four cabinets are stacked together. The quad 18" subwoofer system delivers extreme output and controlled low frequency resolution.

The VHD4.18 Bass Module consists of a purpose designed Very High Definition passive enclosure, containing one custom designed 18“ woofer and a low Q design that has been applied to attain the optimum speaker loading and performance . The end result is a fast, dynamic, Very High Definition sub woofer, truly capable of reproducing the largest of dynamics and transients for all styles of music reproduction.

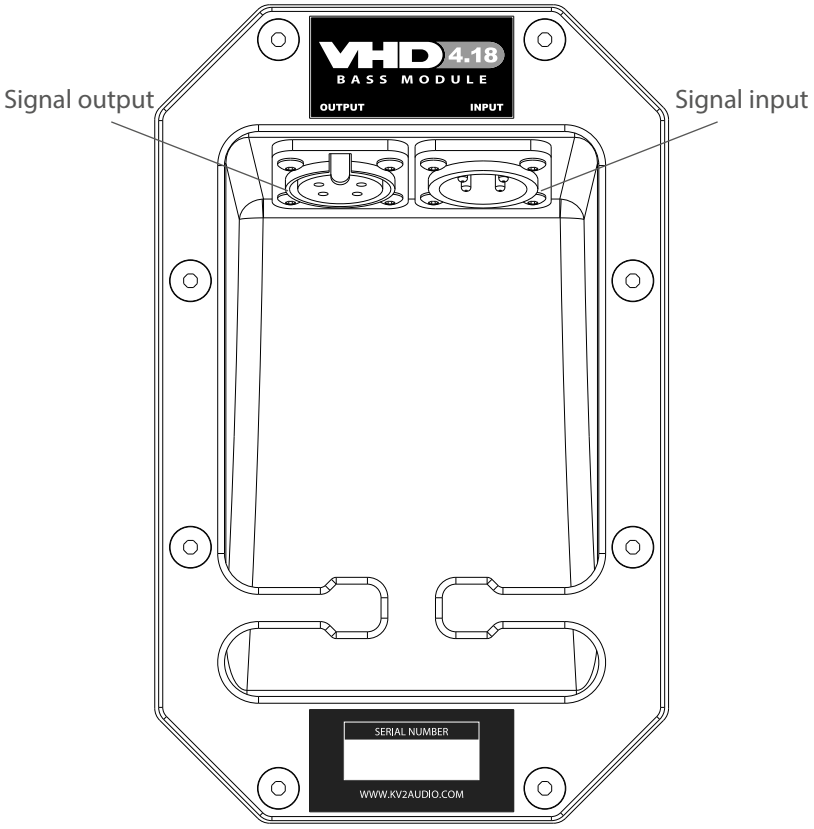
Acoustic Components

The VHD4.18 woofer technology is based around very high efficiency, high power woofer designs. The device features a single 18" cone with a high temperature 4" (100mm) inside/outside epoxy baked polymide voice coil assembly, that undergoes multiple baking and curing processes as well as advanced neodymium magnetic structures with complex cooling systems. The woofer cone has been specially developed to withstand the demanding environment within the hybrid low load chamber.

Enclosure Design

The VHD4.18 is a compact, hybrid low load ported horn design, in a lightweight Baltic Birch enclosure featuring a large number of ergonomically designed parts that make it an easy speaker to set up and use. There are 4 side handles and one top and bottom that make it easy to pick up and reposition the unit in a natural - instinctive and intuitive manner. The VHD2.16 Sub woofer Module employs low friction feet to enable easy locking into existing and other KV2 Audio VHD cabinets and for easy movement.
Flytrack is fitted within the enclosure to allow easy flying and suspension via the KV2 Audio propriety certified Flyware system.

Rear Panel


Signal output
Signal input
VHD 4.18
BASS MODULE
OUTPUT
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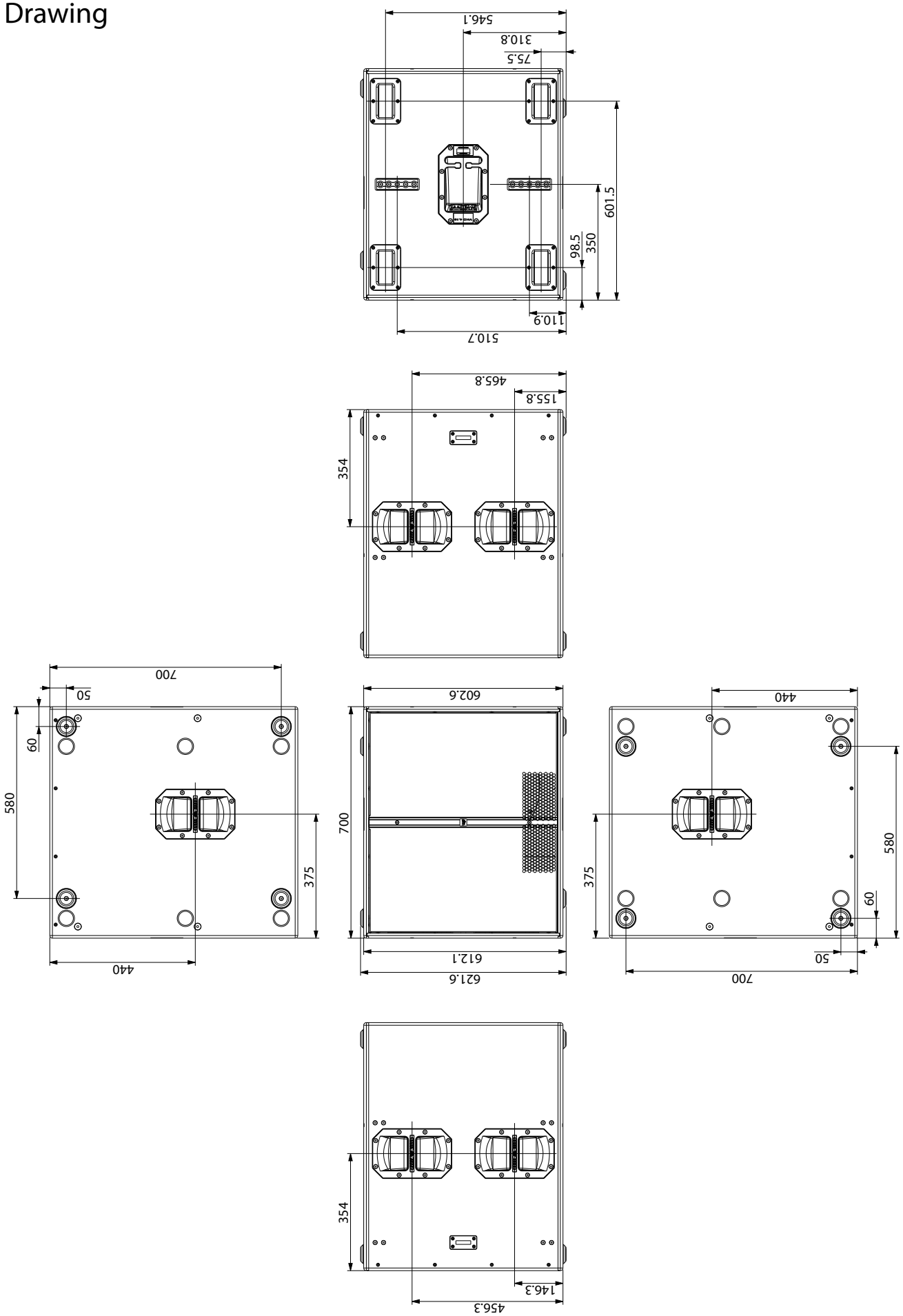
SERIAL NUMBER
WWW.KV2AUDIO.COM

Drawing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456.3

Specifications

System Acoustic Perfomance	
Max SPL Long-term	146dB (4x VHD4.18)
Max SPL Peak	152dB (4x VHD4.18)
-3dB Response	36Hz to 100Hz
-10dB Response	31Hz to 130Hz
Impedance	8Ω
Crossover Point	70Hz to 130Hz

Low Frequency Section	
Acoustic Design	Horn reflex loaded
Low Frequency Amplifier Requirement	800W /1x VHD4.18 (VHD3200 amp.)
Woofer Size / Voice Coil Diameter / Design	18" / 4" / Inside Outside
Magnet Type	Neodymium
Diaphragm Material	Epoxy Reinforced Cellulose

Speaker Input	
Speaker Input	AP4 male

Speaker Output	
Speaker Output	AP4 female

Cabinet	
Cabinet Material	Baltic birch
Handles	6
Color	Black (wear resistant polymer coating)

Physical Dimensions	
Height	600mm (23.62")
Width	700mm (27.55")
Depth	750mm (29.52")
Weight	52 kg (114.4lbs)

Amplification and control requirements	
Amplification and control	VHD3200

Cover for VHD4.18
part name: **Cover VHD4.18**
part number: **KVV 987 105**
- used with cart

Cart for VHD4.18, VHD2.16
part name: **Cart for VHD4.18, VHD2.16**
part number: **KVV 987 100**
- with hardwood bumpers

Bass speaker cable LF15, AP4 connectors - 1,5 m
part name: **LF15**
part number: **KVV 987 121**
- 1,5 m (5ft)
- for Bass Module daisy-chaining

Bass speaker cable LF40, AP4 connectors - 4 m
part name: **LF40**
part number: **KVV 987 122**
- 4 m (13ft)
- for Bass Module hook-up

Bass speaker cable LF100, AP4 connectors - 10 m
part name: **LF100**
part number: **KVV 987 123**
- 10 m (33ft)
- for Bass Module hook-up

Bass speaker cable LF200, AP4 connectors - 20 m
part name: **LF200**
part number: **KVV 987 124**
- 20m (66ft)
- for Bass Module hook-up

VHD1.21
BASS MODULE
Ultra Low Frequency Enclosure

VHD1.21 - part number KVV 987 080

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

Introduction

Single 21", Low Q band-pass sub woofer 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. It is ideal for use in live applications that require reproduction of low frequencies with very high transient content at high output levels. With an efficiency for two boxes of 102dB, it shares the same footprint as the other VHD sub woofers in a compact lightweight easily transported package. Alongside the VHD2.16, it forms part of a remarkable five way active system.

The VHD1.21 Bass Module consists of a purpose designed Very High Definition passive enclosure, containing one custom designed 21“ woofer and a low Q design that has been applied to attain the optimum speaker loading and performance . The end result is a fast, dynamic, Very High Definition sub woofer, truly capable of reproducing the articulation in a bass guitar, whilst also extending down to very low frequencies.

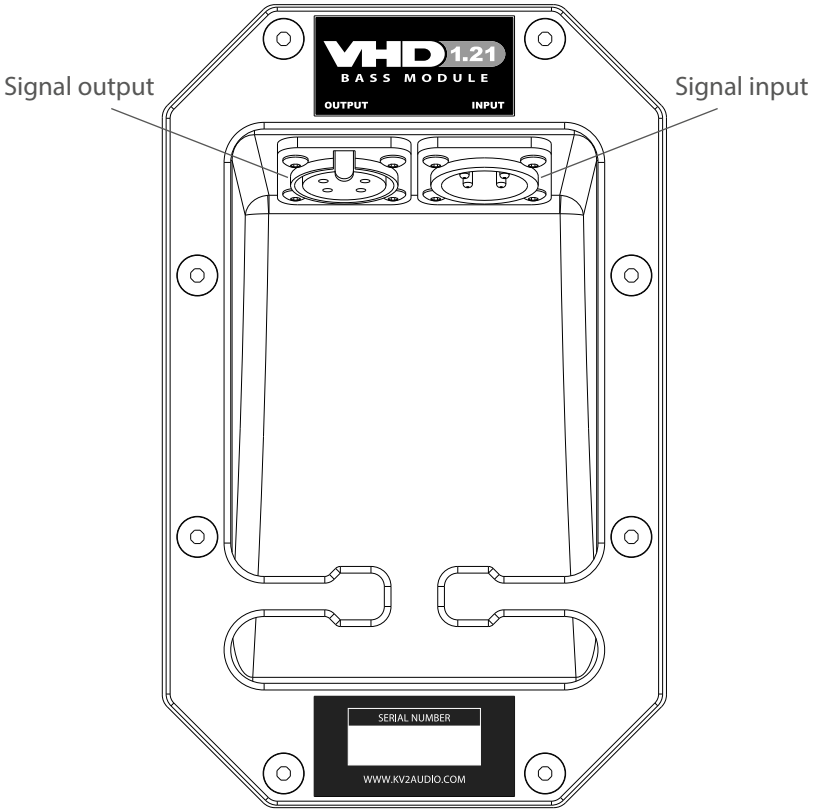
Acoustic Components

The VHD1.21's woofer technology is based around high efficiency, high power woofer designs. The device features a single 21" woofer, with a high temperature 4" (100mm) inside/outside epoxy baked polymide voice coil assembly, that undergoes multiple baking and curing processes as well as advanced magnetic structures with complex cooling systems and a Carbon Fibre reinforced cone assembly. The woofer cone has been specially developed to withstand the demanding environment within the large single chamber.

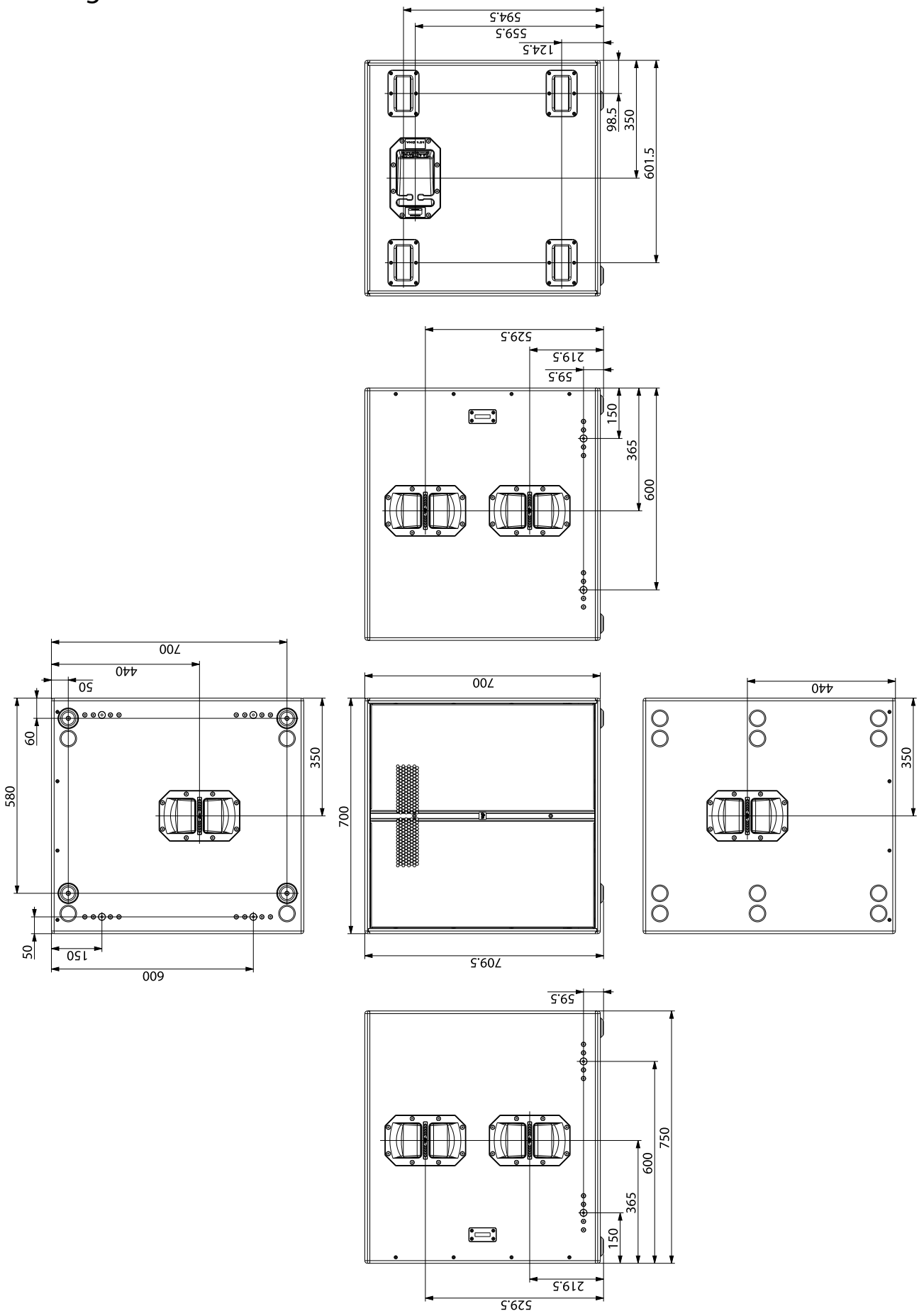
Enclosure Design

The VHD1.21 is a compact, large chamber bass reflex low Q Bandpass design, in a lightweight Baltic Birch enclosure featuring a large number of ergonomically designed parts that make it an easy speaker to set up and use. There are 4 side handles and one top and bottom that make it easy to pick up and reposition the unit in a natural - instinctive and intuitive manner. The VHD1.21 Sub woofer Module employs low friction feet to enable easy locking into existing and other KV2 Audio VHD cabinets and for easy movement.

Rear Panel


Signal output
Signal input
VHD 1.21
BASS MODULE
OUTPUT
INPUT
SERIAL NUMBER
WWW.KV2AUDIO.COM

Drawing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700
709.5
440
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59.5
750
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150
219.5
529.5

Specifications

System Acoustic Perfomance	
Max SPL Long-term	135dB (2x VHD1.21)
Max SPL Peak	141dB (2x VHD1.21)
-3dB Response	29Hz to 100Hz
-10dB Response	23Hz to 130Hz
Impedance	8Ω
Crossover Point	70Hz to 120Hz

Low Frequency Section	
Acoustic Design	Large chamber low Q band pass
Low Frequency 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

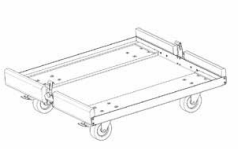
Cabinet	
Cabinet Material	Baltic birch
Handles	6
Color	Black (wear resistant polymer coating)

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

Amplification and control requirements	
Amplification and control	VHD3200

Cover for VHD1.21
part name: **Cover VHD1.21**
part number: **KVV 987 107**
- used with cart

Cart for VHD1.21
part name: **Cart for VHD1.21**
part number: **KVV 987 109**
- Front mount aluminium VHD2.21 cart - with hardwood bumpers



Bass speaker cable LF15, AP4 connectors - 1,5 m
part name: **LF15**
part number: **KVV 987 121**
- 1,5 m (5ft)
- for Bass Module daisy-chaining

Bass speaker cable LF40, AP4 connectors - 4 m
part name: **LF40**
part number: **KVV 987 122**
- 4 m (13ft)
- for Bass Module hook-up

Bass speaker cable LF100, AP4 connectors - 10 m
part name: **LF100**
part number: **KVV 987 123**
- 10 m (33ft)
- for Bass Module hook-up

Bass speaker cable LF200, AP4 connectors - 20 m
part name: **LF200**
part number: **KVV 987 124**
- 20m (66ft)
- for Bass Module hook-up

VHD2.21 BASS MODULE

Ultra Low Frequency Subwoofer

VHD2.21 - part number KVV 987 249
VHD2.21R - part number KVV 987 496

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

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. There is also a flyable version available - VHD2.21R (KVV 987 496) with additional fixings and requirements for the VHD4.21 / VHD2.21 Flybar (KVV 987 398)

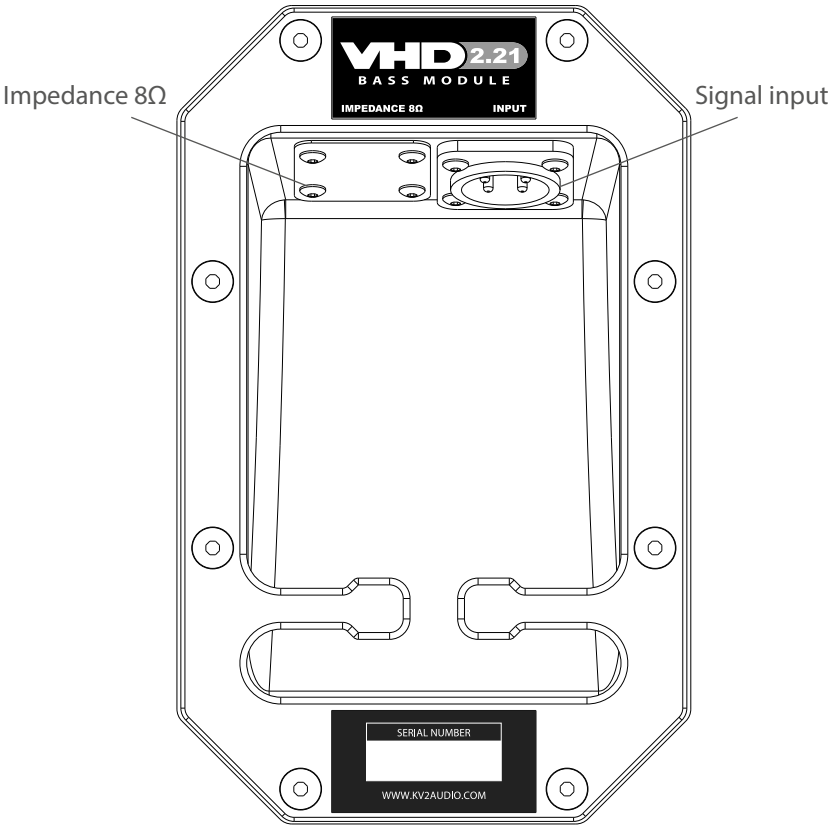
Acoustic Components

The VHD2.21 woofer technology is based around very high efficiency, high power woofer designs. The device features two 21"cones with a high temperature 4" (100mm) inside/outside epoxy baked reinforced cellulose voice coil assembly, that undergoes multiple baking and curing processes as well as advanced neodymium advanced ventilated magnetic structures with complex cooling systems. The woofer cone has been specially developed to withstand the demanding environment within the Bandpass chamber.

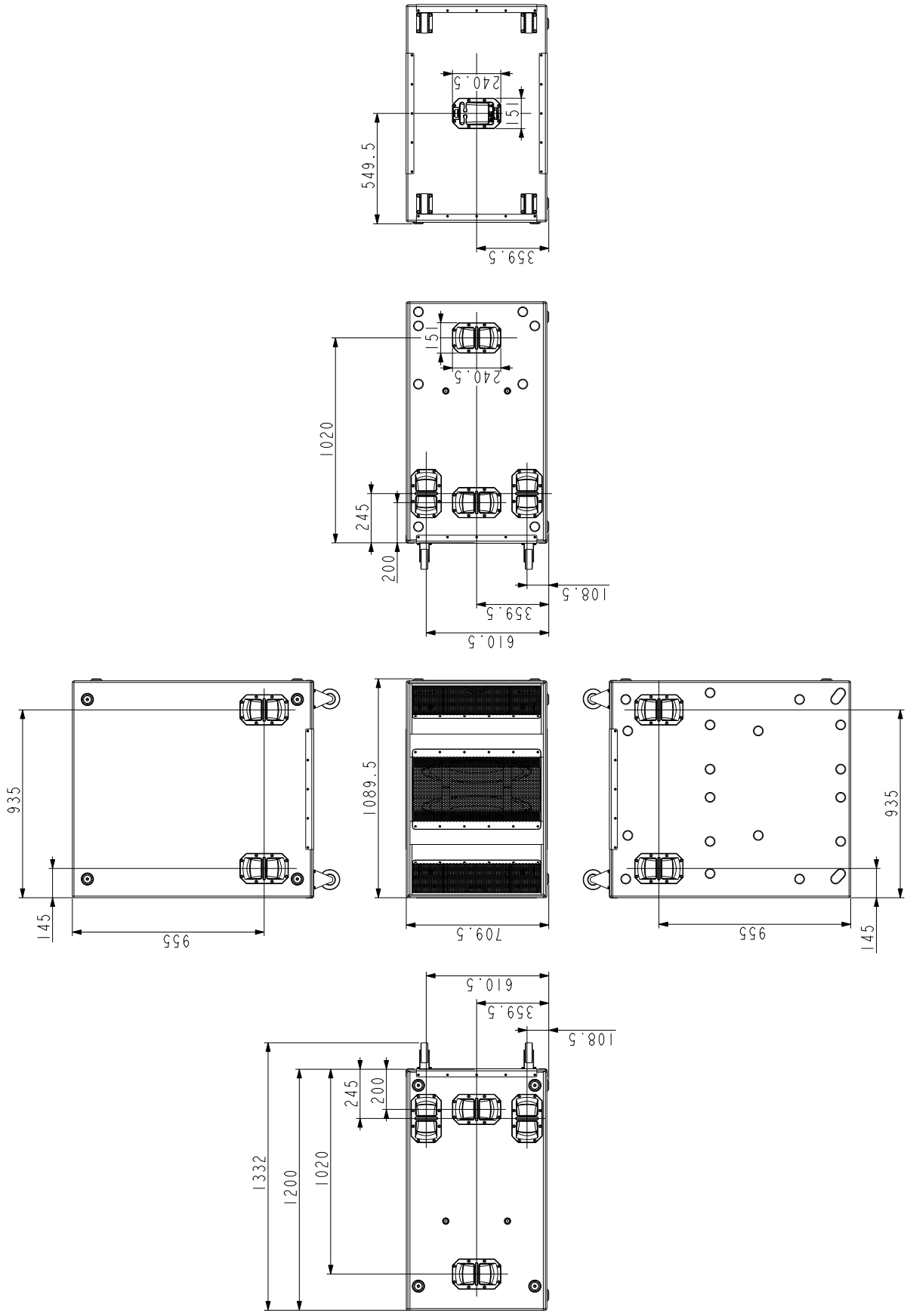
Enclosure Design

The VHD2.21 is a full size low port loss Bandpass design, in a substantial Baltic Birch enclosure featuring a large number of ergonomically designed parts that make it an easy speaker to set up and use.
Internal steel bracing bars are utilized to ensure rigid integrity and there are 6 side handles and two top and bottom that make it manageable to pick up and reposition the unit in a natural - instinctive and intuitive balanced manner.
The VHD2.21 Sub woofer Module employs 4 fixed cart wheels feet to enable easy transportation and there are numerous dimples to allow locking and securing of existing and other KV2 Audio VHD cabinets .

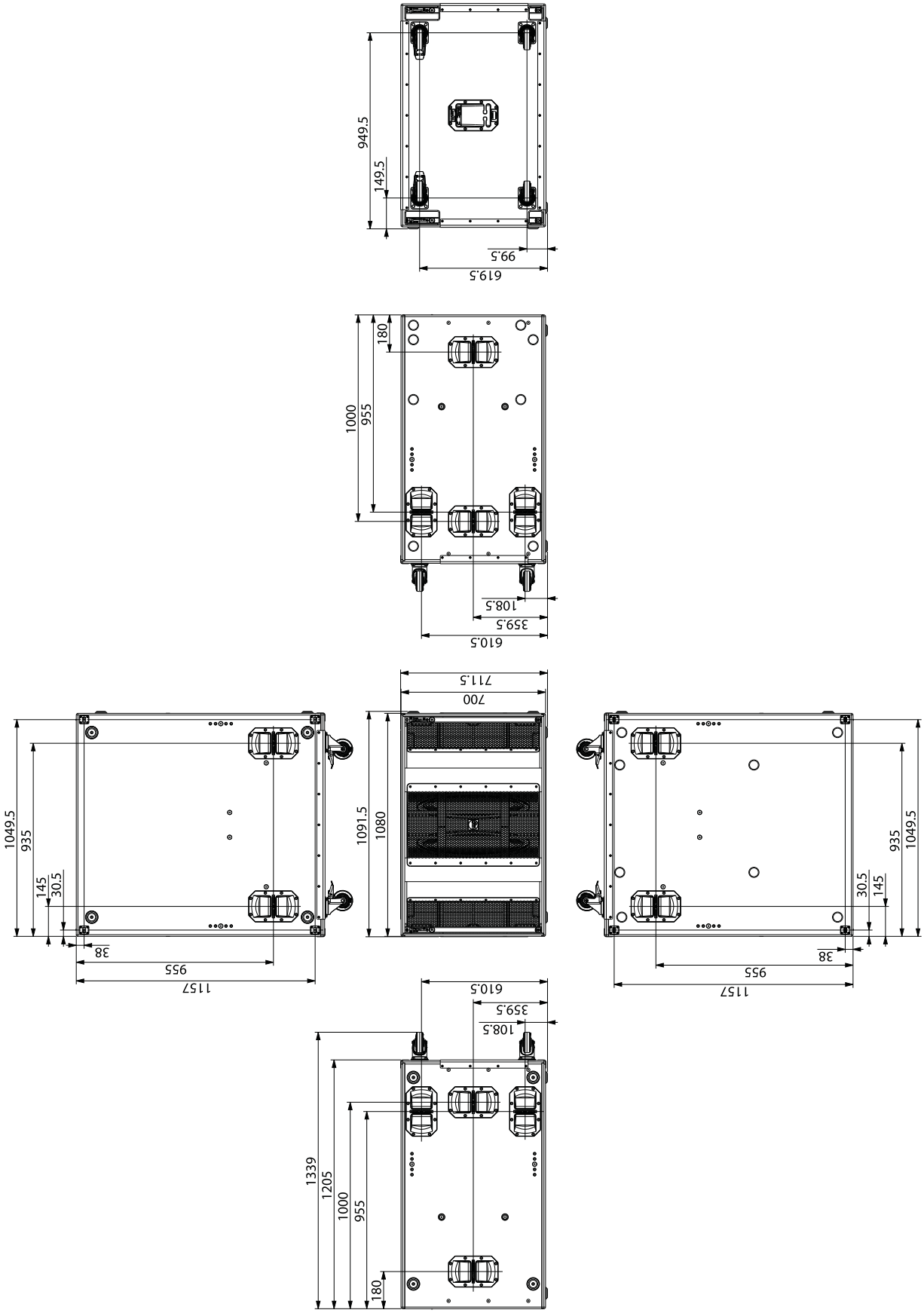
Rear Panel


Impedance 8Ω
Signal input
VHD 2.21
BASS MODULE
IMPEDANCE 8Ω
INPUT
SERIAL NUMBER
WWW.KV2AUDIO.COM

Drawing


240.5
151
549.5
359.5
151
240.5
1020
245
200
108.5
359.5
610.5
935
145
955
1089.5
709.5
935
955
145
610.5
359.5
108.5
245
200
1332
1200
1020

Drawing


949.5
149.5
99.5
619.5
1000
955
180
108.5
359.5
610.5
711.5
700
1091.5
1080
1049.5
935
145
30.5
38
955
1157
1339
1205

Flying instructions

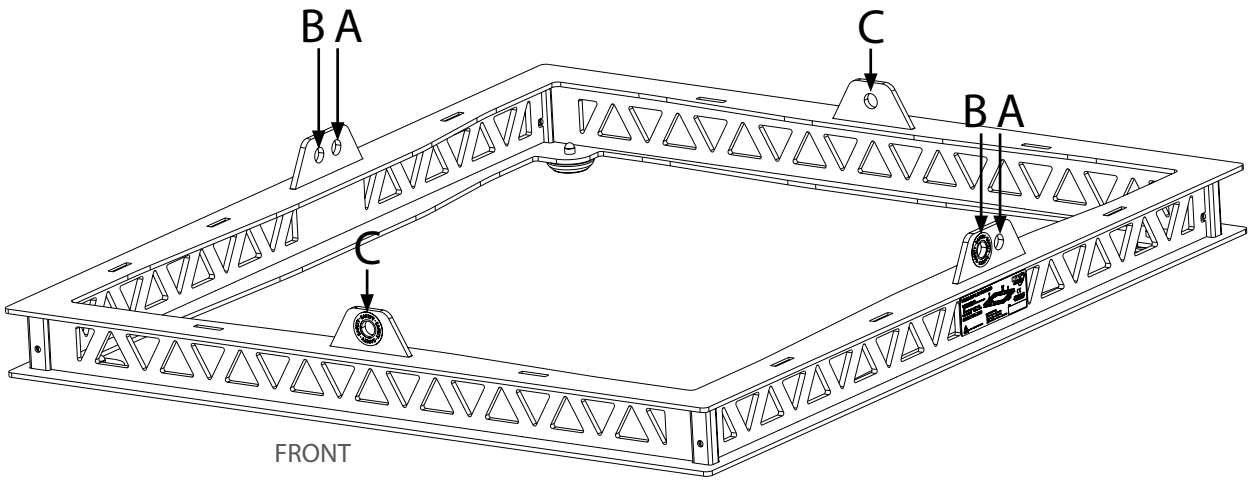
VHD4.21R / VHD2.21R FLYBAR

MAXIMUM ALLOWANCE:
4x VHD4.21R Active + 4x VHD4.21R Passive or 8x VHD2.21 R Passive Subwoofer

FLYBAR WEIGHT:
43,5 kg (96 lbs)

MAX. LOAD:
1400 kg (3087 lbs)

HANGING OPTION:	
A	for VHD4.21 R - C for SAFETY
B	for VHD2.21 R - C for SAFETY
C	for VHD2.21 R or VHD4.21 R - B for SAFETY



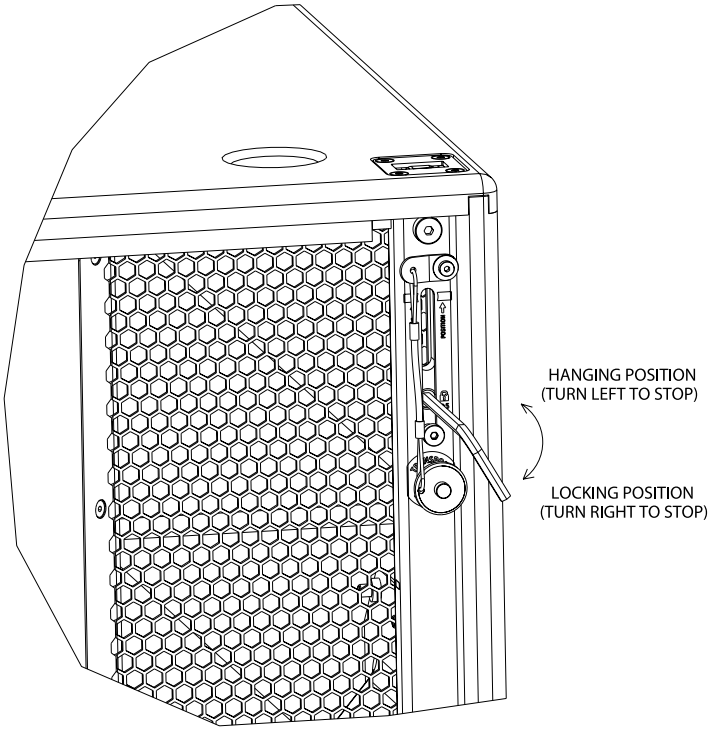
Instructions for hanging or locking positions

1. PLACE THE ALLEN KEY IN THE SLOT

2A. TURN RIGHT TO STOP FOR LOCKING POSITION

2B. TURN LEFT TO STOP FOR HANGING POSITION

(ALL 4 HANGING SLOTS)



Specifications

System Acoustic Perfomance	
Max SPL Long-term	143dB (2xVHD2.21)
Max SPL Peak	149dB (2xVHD2.21)
-3dB Response	34Hz to 180Hz
-10dB Response	28Hz to 240Hz
Impedance	8Ω
Crossover Point	60Hz to 120Hz

Low Frequency Section	
Acoustic Design	Bandpass with low port losses
Low Frequency Amplifier Requirement	3200W /1x VHD2.21 (bridged VHD3200 amp.)
Woofer Size / Voice Coil Diameter	2 x 21" / 4.3"
Magnet Type	Neodymium Advanced Ventilated
Diaphragm Material	Epoxy Reinforced Cellulose

Speaker Input	
Speaker Input	AP4 male

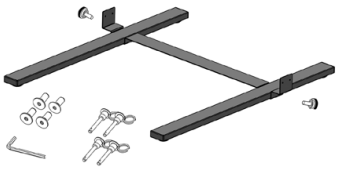
Cabinet	
Cabinet Material	Baltic birch
Handles	12
Color	Black (wear resistant polymer coating)

Physical Dimensions	
Height	700 mm (27.56")
Width	1080 mm (42.52")
Depth	1200 mm (47.24")
Weight	155 kg (341.7lbs)
Weight - R - flying version	158 kg (348lbs)

Amplification and control requirements	
Amplification and control	VHD3200

Cover for VHD2.21/4.21
part name: **Cover VHD2.21/4.21**
part number: **KVV 987 352**

SL Ground Stack
part name: **SL Ground Stack**
part number: **KVV 987 320**



Bass speaker cable LF15, AP4 connectors - 1,5 m
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part number: **KVV 987 121**
- 1,5 m (5ft)
- for Bass Module daisy-chaining

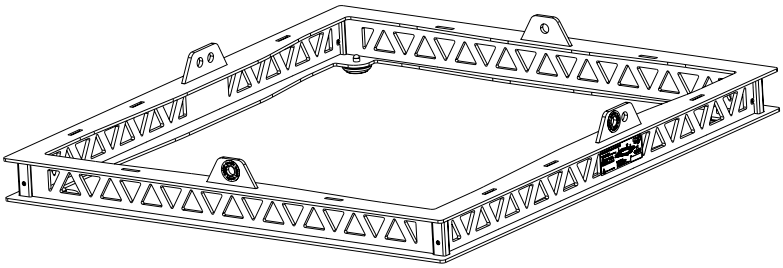
Bass speaker cable LF40, AP4 connectors - 4 m
part name: **LF40**
part number: **KVV 987 122**
- 4 m (13ft)
- for Bass Module hook-up

Bass speaker cable LF100, AP4 connectors - 10 m
part name: **LF100**
part number: **KVV 987 123**
- 10 m (33ft)
- for Bass Module hook-up

Bass speaker cable LF200, AP4 connectors - 20 m
part name: **LF200**
part number: **KVV 987 124**
- 20m (66ft)
- for Bass Module hook-up

VHD4.21R / VHD2.21R Flybar

part name: **VHD4.21R / VHD2.21R Flybar**
part number: **KVV 987 398**
description:
- heavy duty
- padded



Warranty

Your VHD Subwoofers are covered against defects in material and workmanship.

Refer to your supplier for more details.

Service

In the unlikely event that your VHD Subwoofers develops a problem, it must be returned to an authorised distributor, service centre or shipped directly to the KV2 Audio factory. Because of the complexity of the design and the risk of electrical shock, all repairs must be attempted only by qualified technical personnel.

If the unit needs to be shipped back to the factory, it must be sent in its original carton. If improperly packed, the unit may be damaged.

To obtain service, contact your nearest KV2 Audio Service Centre, Distributor or Dealer.

The Future of Sound.
Made Perfectly Clear.

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KVV120123-00-05-0