

# Venu V2 Series

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User Guide V1.0



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Version 1.0

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# 1 Safety and regulations

## 1.1 Important safety instructions



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Safety instructions - read this first

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat source such as radiators, heat registers, stoves, or other such apparatus that produce heat.
9. Do not defeat the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit the apparatus.
11. Only use attachments and accessories specified by Void Acoustics.
12. Only use with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Since the mains power supply cord attachment plug is used to disconnect the device, the plug should always be easily accessible.
16. Void loudspeakers can produce sound levels capable of causing permanent hearing damage from prolonged exposure. The higher the sound level, the less exposure needed to cause such damage. Avoid prolonged exposure to the high sound levels from the loudspeaker.

## 1.2 Limitations

This guide is provided to help familiarise the user with the loudspeaker system and its accessories. It is not intended to provide comprehensive electrical, fire, mechanical and noise training and is not a substitute for industry-approved training. Nor does this guide absolve the user of their obligation to comply with all relevant safety legislation and codes of practice.

While every care has been taken in creating this guide, safety is user-dependent and Void Acoustics Research Ltd cannot guarantee complete safety whenever the system is rigged and operated.

## 1.3 EC declaration of conformity

### Manufacturer:

Void Acoustics Research Ltd,  
Unit 15 Dawkins Road Ind Est,  
Poole, Dorset,  
BH15 4JY,  
United Kingdom.



We declare that under our sole responsibility the following product models: Venu 6 V2, 8 V2, 10 V2, 12 V2, 15 V2, 112 V2, 212 V2, 115 V2, 215 V2, 210i V2

are intended to be used as loudspeakers and are in conformity with the following EC Directives, including all amendments, and with national legislation implementing these directives and standards:

- 2006/95/EC Low Voltage Directive
- 2004/108/EC Electromagnetic Compatibility Directive
- 2002/95/CE RoHs Directive
- BS EN 60065:2002
- BS EN 55103-1/-2
- BS EN 61000-3-2
- BS EN 61000-3-3
- BS EN 61000-4-2
- BS EN 61000-4-3
- BS EN 61000-4-4
- BS EN 61000-4-5
- BS EN 61000-4-6
- BS EN 61000-4-11

Alex Skan  
Technical Director

## 1.4 WEEE directive

If the time arises to throw away your product, please recycle all the components possible.



This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or land-fills will be reduced and natural resources will thus be conserved.

The Waste Electrical and Electronic Equipment Directive (WEEE Directive) aims to minimise the impact of electrical and electronic goods on the environment. Void Acoustics Research Ltd complies with the Directive 2002/96/EC and 2003/108/EC of the European Parliament on waste electrical and electronic equipment (WEEE) in order to reduce the amount of WEEE that is being disposed of in land-fill sites. All of our products are marked with the WEEE symbol; this indicates that this product must NOT be disposed of with other waste. Instead it is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Void Acoustics Research Ltd for reprocessing. For more information about where you can send your waste equipment for recycling, please contact Void Acoustics Research Ltd or one of your local distributors.

## 2 Limited warranty

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### Limited warranty

#### The warranty

For a period of three (3) years from the date of delivery to the original purchaser (as shown on the original invoice or sales receipt; a copy of this may be required as proof of warranty dates), Void Acoustics Research Ltd (hereinafter 'Void') warrants to the Original Owner (person or company who originally purchased the product brand new from either Void or a Void Authorised Dealer/Distributor) of each new Venu V2 Series product (provided it was purchased at an Authorised Void Dealer) that it is free of defects in materials and workmanship and that each product will meet or exceed all factory published specifications for each respective model. Void agrees to repair or replace (at its discretion) all defective parts at no charge for labour or materials; subject to the following provisions:

#### Warranty violations

Void shall take no responsibility for repair or replacement as specified under this warranty, if the damaged product has been subject to misuse, accident, neglect or failure to comply with normal maintenance procedures; or if the serial number has been defaced, altered or removed. Nor will Void accept responsibility for, or resulting from, improper alterations or unauthorised parts or repairs. This warranty does not cover any damage to speakers or any other consequential damage resulting from breach of any written or implied warranty.

#### Void warranty provisions

Void will remedy any defect, regardless of the reason for failure (except as excluded) by repair, or replacement. Void will remedy the defect and ship the product within a reasonable time after receipt of the defective product at a Void Authorised Service Centre.

#### To obtain warranty service

If a Void product requires service, the Owner must contact Void or an Authorised Void Service Centre to receive an R.A.N. (Return Authorisation Number) and instructions on how to return the product to the Void Authorised Service Centre, or to Void.

Void (or its Authorised Service Centre) will initiate corrective repairs upon receipt of the returned product. Please save the original carton and all the packing materials in case shipping is required. All products being returned to the factory or service centre for repairs must be shipped prepaid.

If the repairs made by Void or the Void Authorised Service Centre are not satisfactory, the Owner is instructed to give written notice to Void. If the defect or malfunction remains after a reasonable number of attempts by Void to remedy the defect or malfunction, the Original Owner shall then have the option to elect either a refund or replacement of said Void product free of charge. The refund shall be an amount equal to but not greater than the actual purchase price, not including any taxes, interest, insurance, closing costs and other finance charges (minus reasonable depreciation on the product). If a refund is necessary, the Original Owner must make the defective or malfunctioning product available to Void free and clear of all liens or other restrictions.

#### Equipment modifications

Technical and design specifications are subject to change without notice.

Void reserves the right to modify or change equipment (in whole or part) at any time prior to delivery thereof, in order to include therein electrical or mechanical improvements deemed appropriate by Void, but without incurring any liability to modify or change any equipment previously delivered, or to supply new equipment in accordance with any earlier specifications.

#### Disclaimer of consequential and incidental damages

You, the Original Owner, are not entitled to recover from Void any incidental damages resulting from any defect in the Void product.

This includes any damage to another product or products resulting from such a defect.

#### Warranty alterations

No person has the authority to enlarge, amend, or modify this Warranty. This Warranty is not extended by the length of time which the Original Owner is deprived of the use of product. Repairs and replacement parts provided pursuant to the Warranty shall carry only the non-expired portion of the Warranty.

**This Statement of Warranty supersedes all others contained in this user guide.**

## 3 Unpacking and checking

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All Void Acoustics products are carefully manufactured and thoroughly tested before being dispatched. Your dealer will ensure that your Void products are in pristine condition before being forwarded to you but mistakes and accidents can happen.

Before signing for your delivery:

- Inspect your shipment for any signs of contamination, abuse or transit damage as soon as you receive it
- Check your Void Acoustics delivery fully against your order
- If your shipment is incomplete or any of its contents are found to be damaged; inform the shipping company and inform your dealer.

When you are removing your Venu V2 loudspeaker from its original packaging:

- All Venu V2 loudspeakers come double boxed and each box is stapled shut; take care when unboxing and removing the staples to avoid injury or damage to the loudspeaker
- If you need to place the Venu V2 loudspeaker on a flat surface ensure you use a lint free product to protect the finish
- When you have removed the Venu V2 loudspeaker from the packaging inspect it to ensure there is no damage and keep all original packaging in case it needs to be returned for any reason.

See section 2 for warranty conditions and see section 8 if your product needs servicing.

# 4 About

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## 4.1 Welcome

Many thanks for purchasing this Void Acoustics Venu V2 Series loudspeaker. We truly appreciate your support. At Void, we design, manufacture and distribute advanced professional audio systems for the installed and live sound market sectors. Like all Void products, our highly skilled and experienced engineers have successfully combined pioneering technologies with groundbreaking design aesthetics, to bring you superior sound quality and visual innovation. In buying this product, you are now part of the Void family and we hope using it brings you years of satisfaction. This guide will help you both use this product safely and ensure it performs to its full capability.

## 4.2 Venu V2 Series overview

The Venu V2 series has been ingeniously redesigned to ensure this winning range of loudspeakers exceeds the expectation of leading sound installation contractors and integrators around the world. A full, sleek aesthetic overhaul, coupled with functional revisions, makes this series even more attractive and versatile than ever before. With so many different sizes and power capabilities, you can confidently meet any venue's sound specifications using Venu products.

Passive two-way surface mount loudspeakers:

- Venu 6 V2
- Venu 8 V2
- Venu 10 V2
- Venu 12 V2
- Venu 15 V2

Reflex-loaded low frequency loudspeakers:

- Venu 112 V2
- Venu 212 V2
- Venu 115 V2
- Venu 215 V2

# 5 Cabling and wiring

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## 5.1 Electrical safety



To avoid electrical hazards please note the following:

- Do not access the inside of any electrical equipment. Refer servicing to Void-approved service agents.

## 5.2 Cable considerations for fixed installations

We recommend specifying installation-grade Low Smoke Zero Halogen (LSZH) cables for permanent installations. The cables should use Oxygen Free Copper (OFC) of grade C11000 or above. Cables for permanent installations should be compliant with the following standards:

- IEC 60332.1 Fire retardancy of a single cable
- IEC 60332.3C Fire retardancy of bunched cables
- IEC 60754.1 Amount of Halogen Gas Emissions
- IEC 60754.2 Degree of acidity of released gases
- IEC 61034.2 Measurement of smoke density.

We suggest using the following maximum copper cable lengths to keep level losses below 0.6 dB.

Metric mm <sup>2</sup>	Imperial AWG	8 $\Omega$ load	4 $\Omega$ load	2 $\Omega$ load
2.50 mm <sup>2</sup>	13 AWG	36 m	18 m	9 m
4.00 mm <sup>2</sup>	11 AWG	60 m	30 m	15 m

## 5.3 Phoenix connector

Figure 5.1 shows the rear panel of a Venu Series V2 loudspeaker with the polarity of the Phoenix connector labelled. From left to right it is - and + for the feed to the drivers and the - and + for the link/out.

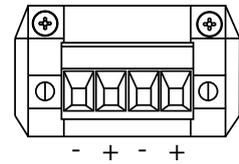


Figure 5.1: Phoenix connector polarity

# 5 Cabling and wiring

## 5.4 Venu 6, 8, 10, 12 and 15 V2 wiring

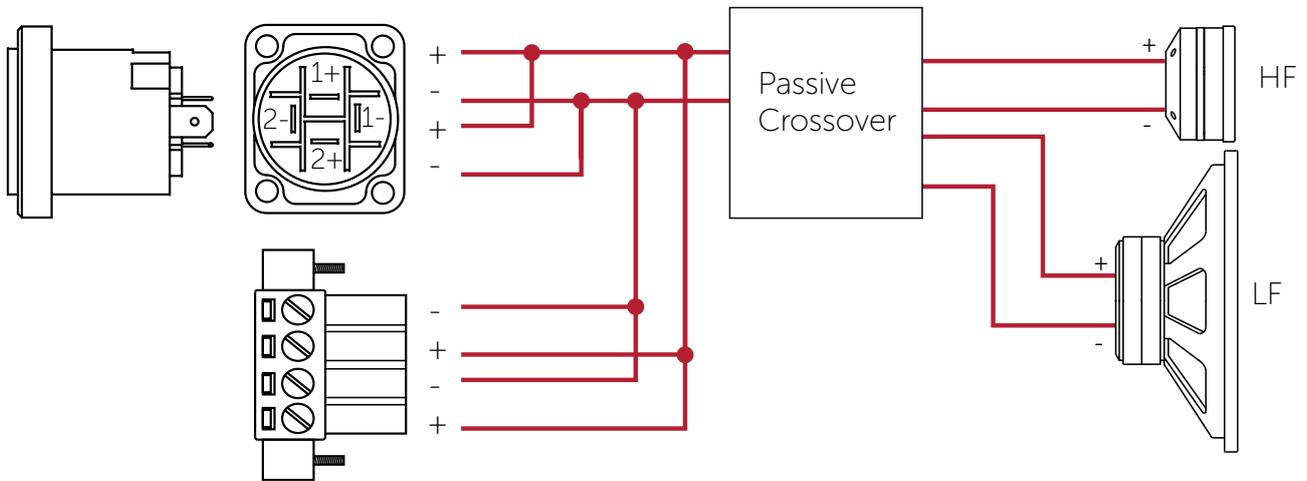


Figure 5.2: High frequency loudspeaker wiring diagram

	speakON™ pins 1+/1-	speakON™ pins 2+/2-
Venu 6 V2	1" HF and 6.5" LF	Link/out
Venu 8 V2	1" HF and 8" LF	Link/out
Venu 10 V2	1" HF and 10" LF	Link/out
Venu 12 V2	1" HF and 12" LF	Link/out
Venu 15 V2	1" HF and 15" LF	Link/out

# 5 Cabling and wiring

## 5.5 Venu 112 and 115 V2 wiring

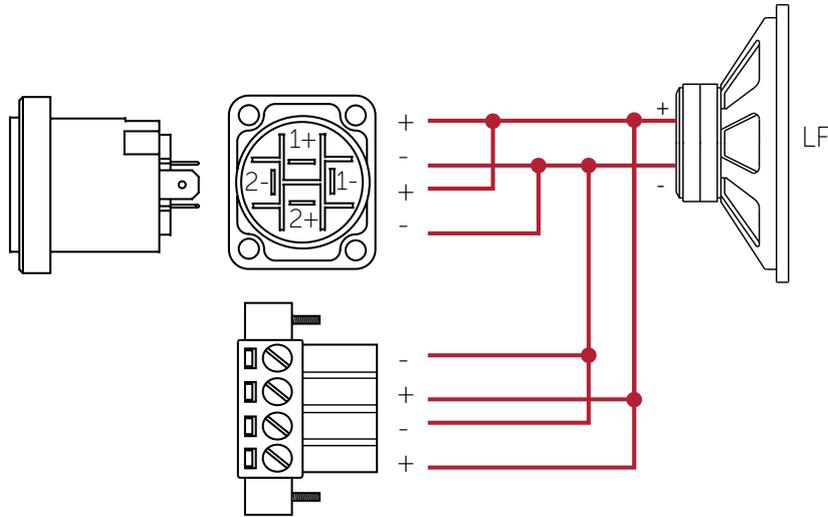


Figure 5.3: Single low frequency loudspeaker wiring diagram

	speakON™ pins 1+/1-	speakON™ pins 2+/2-
Venu 112 V2	12" LF	Link/out
Venu 115 V2	15" LF	Link/out

## 5.6 Venu 212 and 215 V2 wiring

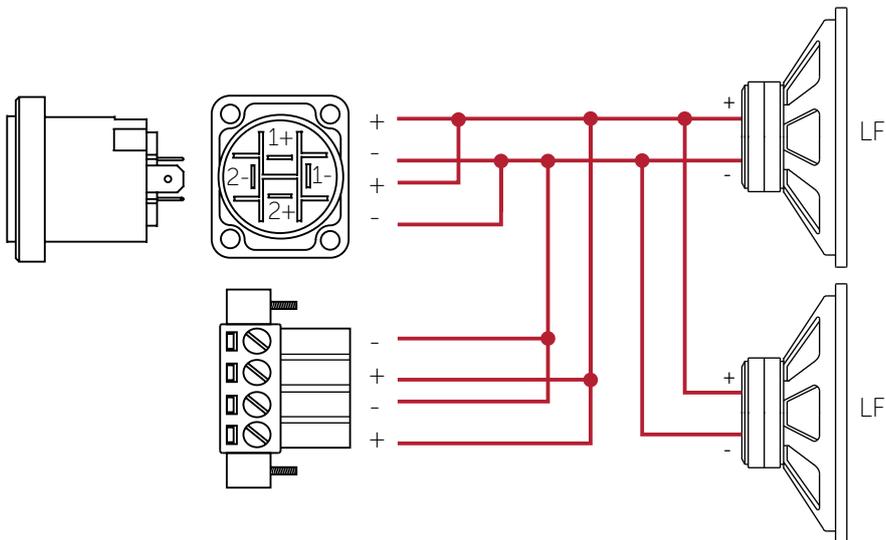


Figure 5.4: Dual low frequency loudspeaker wiring diagram

	speakON™ pins 1+/1-	speakON™ pins 2+/2-
Venu 212 V2	2 x 12" LF	Link/out
Venu 215 V2	2 x 15" LF	Link/out

# 5 Cabling and wiring

## 5.7 Venu V2 amplifier to phoenix connector wiring

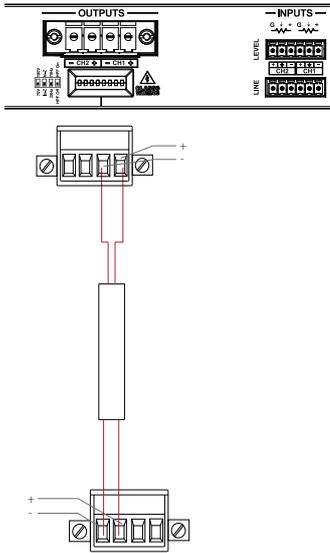


Figure 5.5: Bias D1 Phoenix wiring

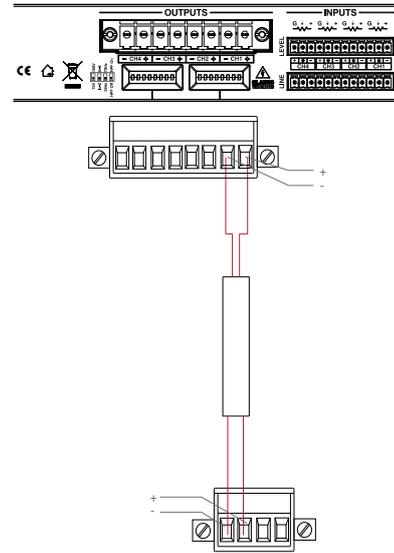


Figure 5.6: Bias Q2 Phoenix wiring

Bias D1/Q2	Output 1
Max parallel units (Venu 6/8/10/12/15/112/115 V2)	4 (2 $\Omega$ load to amplifier)
Max parallel units (Venu 212/215 V2)	2 (2 $\Omega$ load to amplifier)

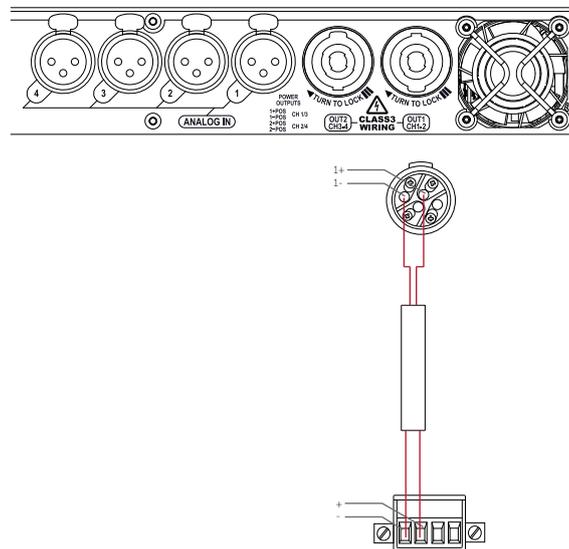


Figure 5.7: Bias Q5 Phoenix/speakON™ wiring

Bias Q5	Output 1
Max parallel units (Venu 6/8/10/12/15/112/115 V2)	4 (2 $\Omega$ load to amplifier)
Max parallel units (Venu 212/215 V2)	2 (2 $\Omega$ load to amplifier)

# 5 Cabling and wiring

## 5.9 Venu V2 amplifier to speakON™ wiring

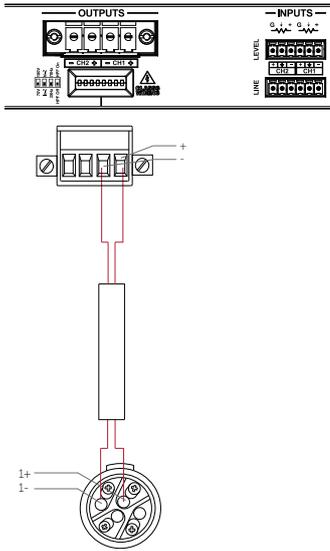


Figure 5.8: Bias D1 Phoenix wiring

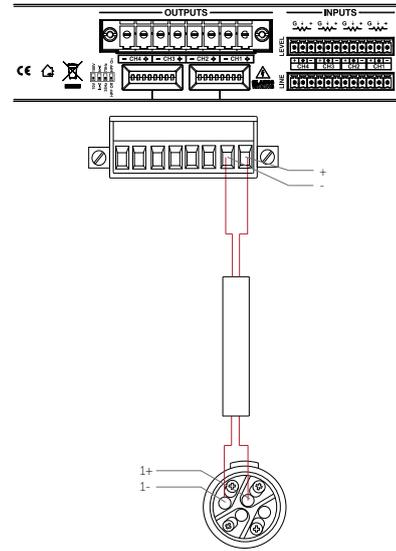


Figure 5.9: Bias Q2 Phoenix wiring

Bias D1/Q2	Output 1
Max parallel units (Venu 6/8/10/12/15/112/115 V2)	4 (2 Ω load to amplifier)
Max parallel units (Venu 212/215 V2)	2 (2 Ω load to amplifier)

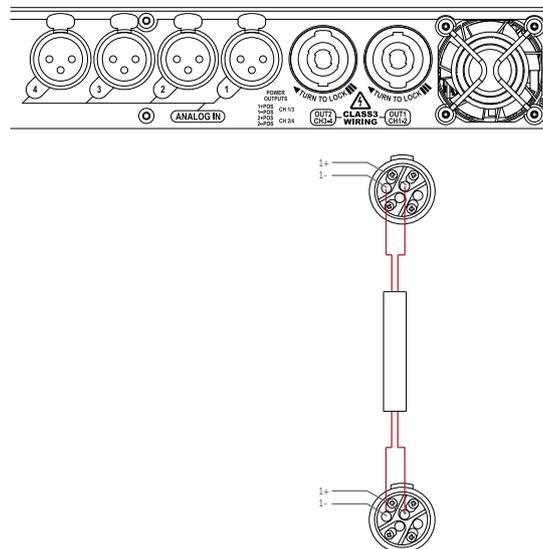


Figure 5.10: Bias Q5 speakON™ wiring

Bias Q5	Output 1
Max parallel units (Venu 6/8/10/12/15/112/115 V2)	4 (2 Ω load to amplifier)
Max parallel units (Venu 212/215 V2)	2 (2 Ω load to amplifier)

# 6 System design

## 6.1 System design principles

Venu V2 loudspeakers can be arrayed as a single pair facing forward to provide a wide stereo image.

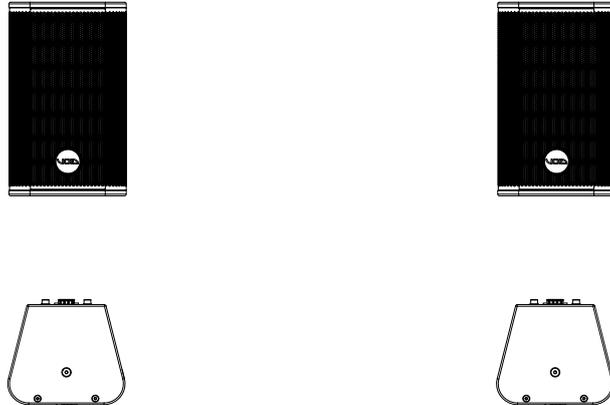


Figure 6.1: Venu V2 Series loudspeakers single pair arrangement

For applications requiring wide horizontal coverage, use two Venu V2 Series loudspeakers in pairs, angled at about 40°.

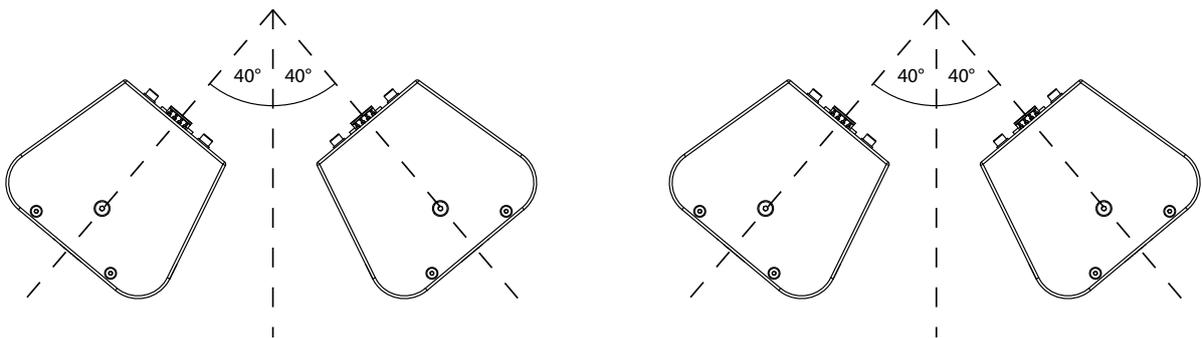


Figure 6.2: Venu V2 Series loudspeaker dual pair arrangement

For permanent installation, it is recommended to fly Venu V2 loudspeakers for more even coverage. This also allows co-located low frequency enclosures in a single block, increasing sensitivity and providing more consistent bass coverage.



Figure 6.3: Venu V2 ceiling mounting

# 6 System design

## 6.2 High frequency loudspeaker placement and positioning

When deploying Venu V2 loudspeakers, it is important to consider the speakers' vertical position to maximise coverage in the vertical axis. Horizontal loudspeaker dispersion figures dictate the coverage of the loudspeaker, left to right, to the -3 dB points. The same can be said for the vertical dispersion figure, but when applied to a listening area, this figure dictates the audience area coverage front to back.

Vertical dispersion is often overlooked or not assessed properly, resulting in inefficiently deployed loudspeaker systems that require more fill loudspeakers than are necessary to achieve required coverage. Following are some basic guidelines when considering the vertical position of your Venu V2 loudspeaker.

With optimum vertical positioning and aiming applied the loudspeaker system can be used at maximum efficiency. With a point source loudspeaker in this configuration the speaker is placed 2m-4m from the ground, aimed half way to two thirds of the way back from the audience area, as shown in figure 6.5. The applied aiming reduces unwanted reflections from the ceiling and directs the highest energy concentration to the audience area requiring it most. This is the most desirable position for the loudspeakers in this example.

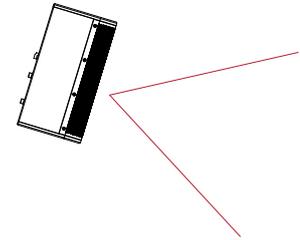


Figure 6.4a: Vertical dispersion (side view)

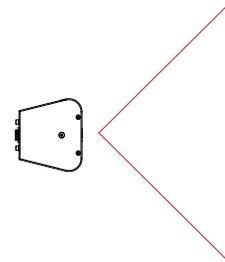


Figure 6.4b: Horizontal dispersion (top view)

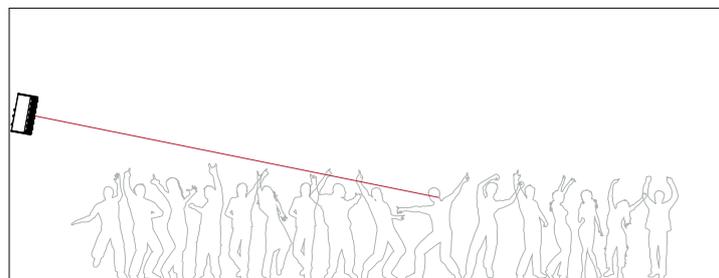


Figure 6.5: Correct loudspeaker placement



## 6 System design

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A multi-point loudspeaker system in a club/bar environment can be very pleasing for the listener. However, it's important that the processes applied to previous examples are still implemented. In figure 6.6 you can see the loudspeakers have been positioned and aimed optimally. When deploying a multi-point loudspeaker system, extra consideration must be taken to counter unwanted room effects. Careful positioning and aiming of loudspeakers will minimise room effects, while maintaining even coverage throughout the audience area.

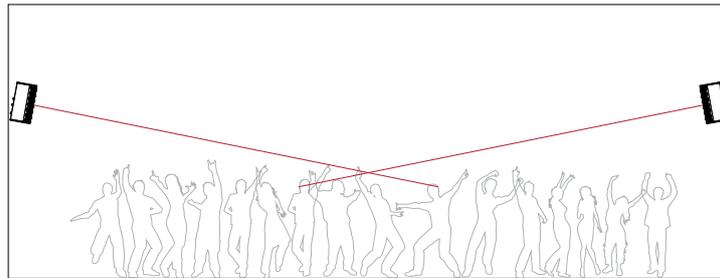


Figure 6.6: Multi point loudspeaker arrangement

In the horizontal plane rotate the Venu V2 Series loudspeakers toward the audience area at an angle such that the centre line of the dispersion from each loudspeaker meets about two thirds of the way towards the rear of the audience area. This will help provide a wider coverage and result in more of the power being used efficiently.

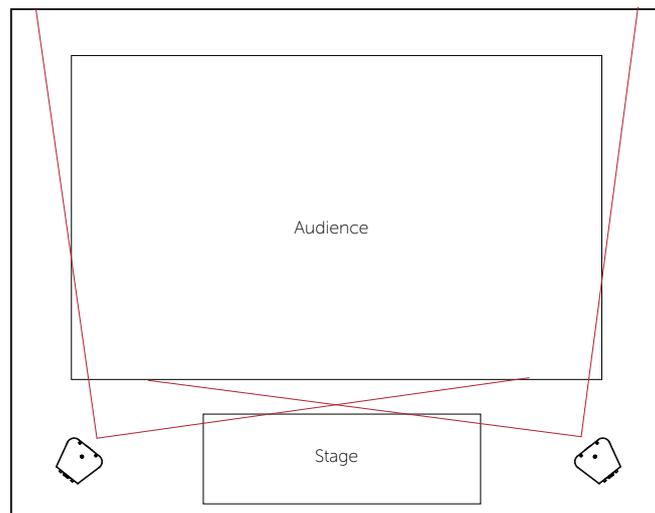


Figure 6.7: Correct horizontal dispersion

## 6 System design

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Avoid directing the Venu V2 Series loudspeaker straight forward. This will result in a proportion of the power being directed towards the walls, creating possible reflective issues, as well as causing a gap in coverage at the centre of the audience area.

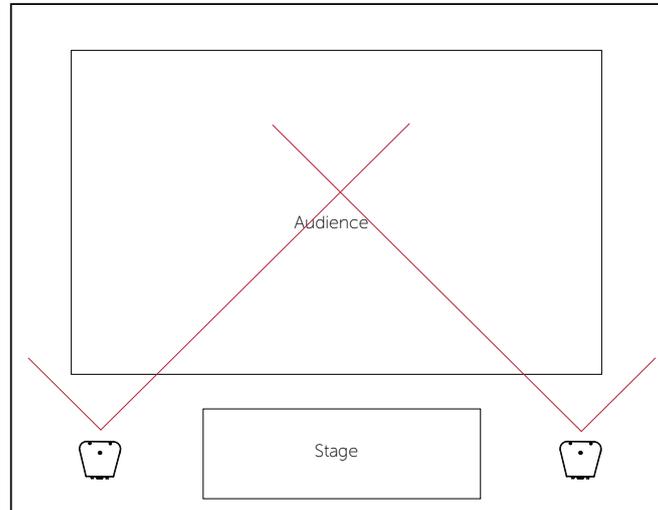


Figure 6.8: Incorrect horizontal dispersion



In figure 6.9 the loudspeakers vertical positioning is too low for the audience area. Mid and high range frequencies are absorbed by the first two rows of people, resulting in poor coverage and potential acoustic issues from room reflections.

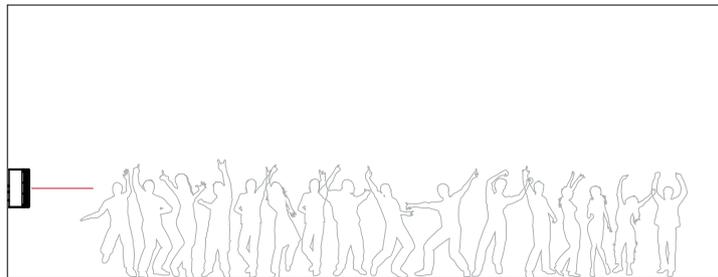


Figure 6.9: Incorrect loudspeaker placement



Figure 6.10 shows the loudspeaker vertical position is optimal for the audience area but the user hasn't applied an aiming angle. In this case, a large portion of energy is directed at the ceiling that could result in reduced intelligibility and unwanted room acoustic characteristics. The shallow angle of attack will also induce refraction issues on a hot dance floor, leading to reduced HF penetration at mid and far distances, again reducing intelligibility and coherence.

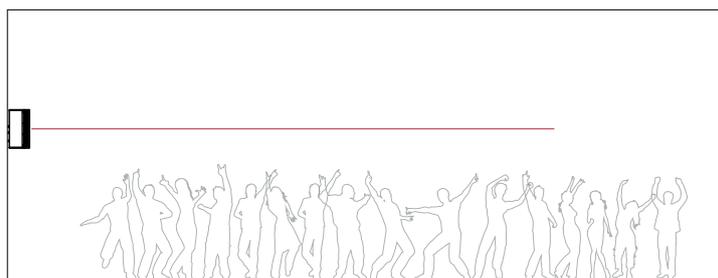


Figure 6.10: Incorrect loudspeaker placement



# 6 System design

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## 6.3 Typical operating modes for low frequency enclosures

Although the modes of arrangement shown here are typical operating modes for low frequency enclosures, the Venu V2 Series low frequency enclosures design lends itself to wide range of configurations. Simple planer arrays and stacks to directional and steerable arrays are possible given suitable electronics and presets. Contact your local Void distributor/dealer for more information.

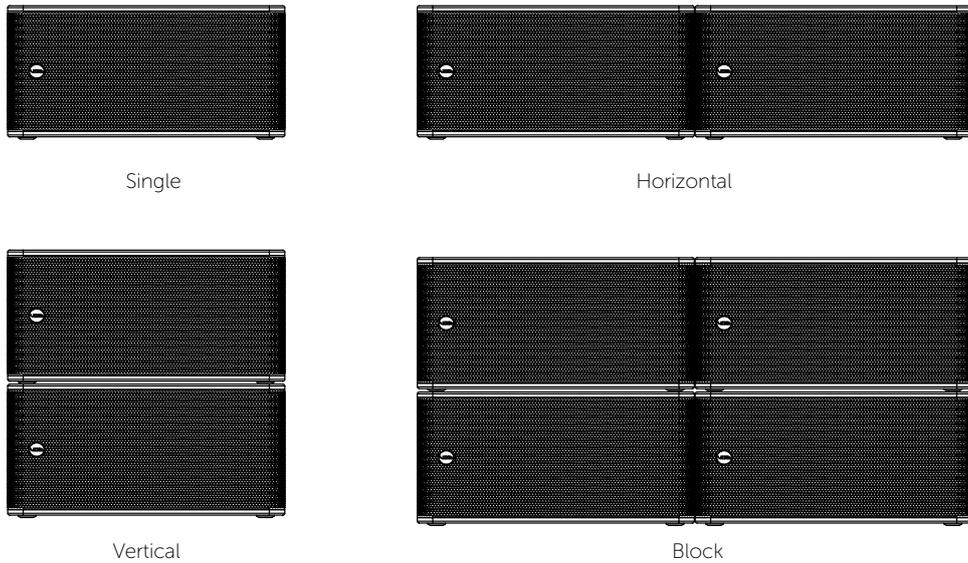


Figure 6.11: Typical mode layouts

# 6 System design

## 6.4 Bass alignment - delay times



Note: All information given here is a guide and not a rule. Taking measurement on site and using your ear are still the most reliable way to achieve the best results.

When designing loudspeakers and low frequency enclosures layout within a space it is often necessary to apply delay to optimise system performance. In figure 6.12 we have a room with four Venu V2 loudspeakers and single low frequency enclosure.

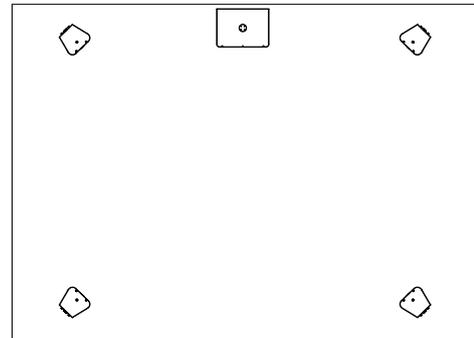


Figure 6.12: Bass alignment example 1

All four loudspeakers sit on a circle of radius  $R$  with its centre point at  $O$ . The low frequency enclosure is situated at a distance  $A$  from the origin and a distance  $B$  from the circumference of the circle. The distance  $B$  will determine the delay required for the low frequency enclosure of 2.9 ms per metre. So, in this example, if the distance  $B$  is 2 m the a delay of 5.8 ms would be required.

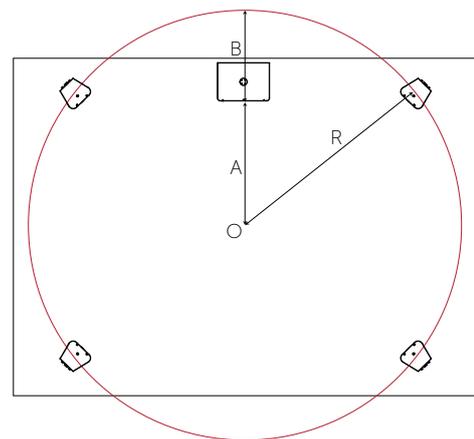


Figure 6.13: Bass alignment example 1

Figure 6.14 shows a second low frequency enclosure added. Here we are looking to create a secondary focal point at  $E$ . To calculate our delay time we take distance  $D$ , which is point  $E$  to the south edge of the circle, away from  $A$ , which is  $E$  to the north edge of the circle, and multiply by the delay time per metre. Or:

$$(A - D) \times 2.9 \text{ ms/m} = \text{delay time.}$$

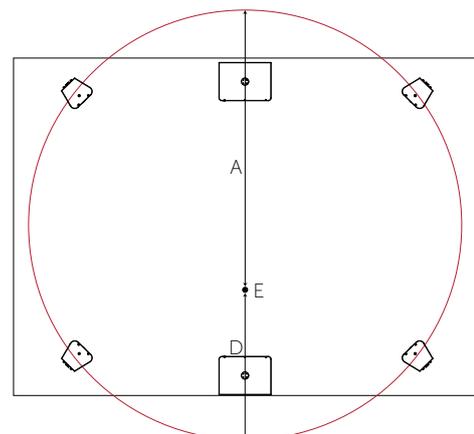


Figure 6.14: Bass alignment example 2

# 6 System design

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## 6.5 Asymmetrical waveguide orientation

Due to the asymmetrical nature of the high frequency waveguide it must be orientated correctly. The narrow end of the waveguide creates the wider dispersion and should always be facing down as shown in the figure below.

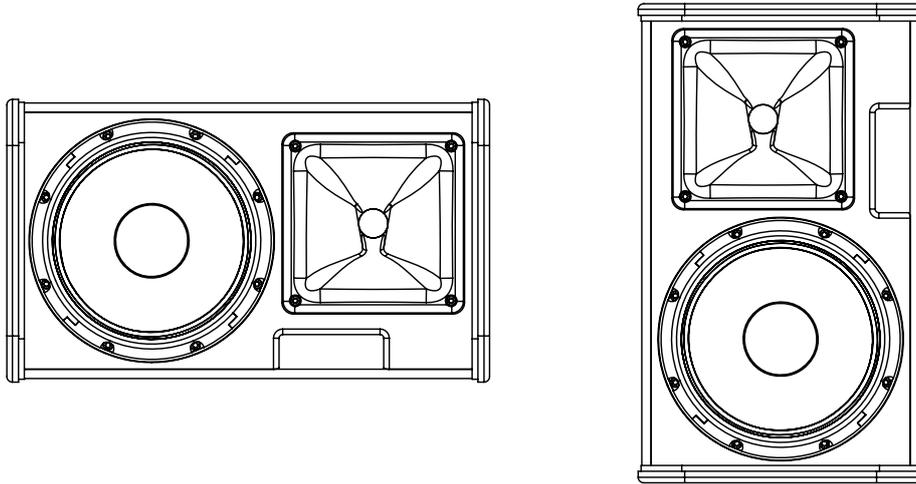


Figure 6.15: Asymmetrical waveguide orientation

# 7 Mounting

---

## Tools required

- 6 mm Allen key
- 13 mm spanner/wrench

### 7.1 Installation safety



To avoid mechanical hazards, please note the following:

- Safety regulations vary in different regions. Full compliance with those regulations must be your priority
- Rigging must only be undertaken by fully-qualified and experienced riggers who understand local regulations
- This may include consulting a structural engineer before installation of wall brackets
- Remember that all personnel have a duty of care to themselves, to their assistants, to the venue staff and to the public
- Before lifting any part of the system above head height, check the whole rig for loose tools or other items that may fall and cause injury
- Do not use a telephone (even if hands-free) while rigging. Always concentrate fully on the rigging operation
- Do not rig equipment that is worn, damaged, corroded, mishandled or over-stressed in any way
- Use only Void-approved mounting equipment and accessories
- Secondary safeties should be provided in all instances where cabinets are flying or fixing overhead and should conform to local regulations

## 7.2 Mounting in portrait mode

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Parts required (see Appendix D for part numbers):

- EZ hang wall mount bracket (Venu 6, 8 V2)
- EZ hang XL wall mount bracket (Venu 10, 12, 15 V2)

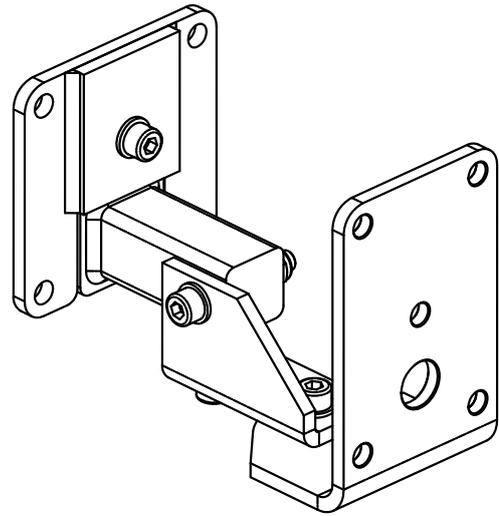


Figure 7.1: EZ hang wall mount bracket

Step 1:  
Remove all four M8 bolts from the rear of the loudspeaker.

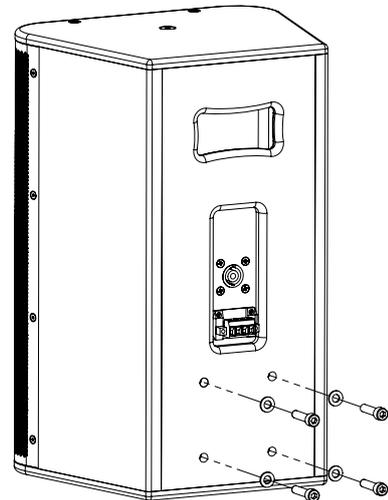


Figure 7.2: Venu bolt removal

Step 2:  
Remove the front of the bracket from the main bracket assembly. Attach the rear of the bracket assembly to the wall making sure all 4 bolts are fitted.



Take care when mounting the bracket to the wall, making sure to use the correct fixing and that the wall can take the load, for example do not attach the bracket to a stud wall.

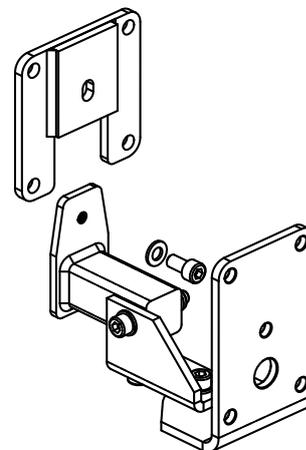


Figure 7.3: Deconstructing the bracket assembly

## 7.2 Mounting in portrait mode

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### Step 3:

Attach the front of the bracket assembly to the rear of the loudspeaker using all four M8 bolts.

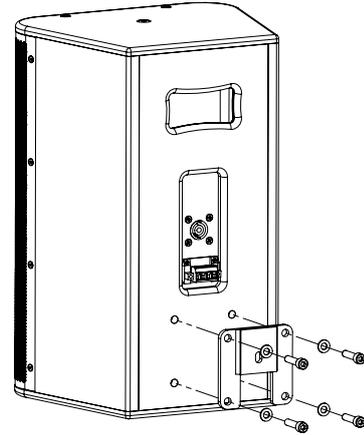


Figure 7.4: Attaching bracket to loudspeaker

### Step 4:

Lower the speaker assembly on to the rear of the bracket assembly and fix the bolt into the rear of assembly.

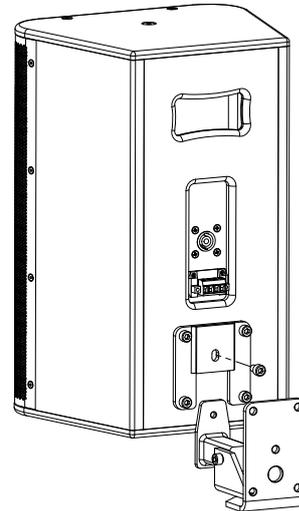


Figure 7.5: Attaching loudspeaker to bracket

### Step 5:

Adjust the bracket in the horizontal axis by loosening the bolt at the rear of the assembly (figure 7.6a) and in the vertical axis by adjusting the bolt on the base of the assembly (figure 7.6b).

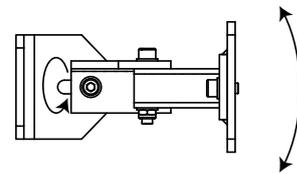


Figure 7.6a: Bracket adjustment

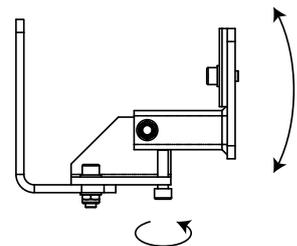


Figure 7.6b: Bracket adjustment

## 7.3 Mounting in landscape mode

---

Parts required (see Appendix D for part numbers):

- EZ hang wall mount bracket (Venu 6, 8 V2)
- EZ hang XL wall mount bracket (Venu 10, 12, 15 V2)

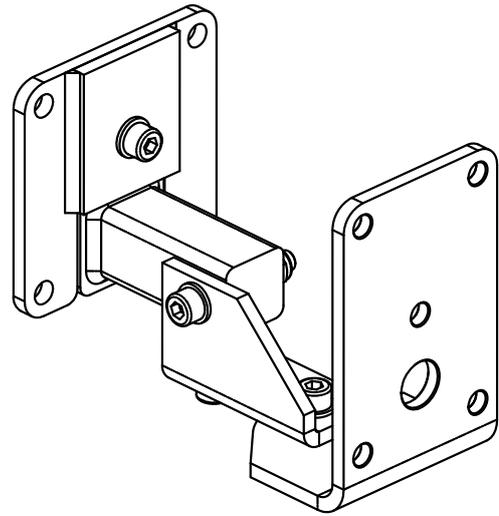


Figure 7.7: EZ hang wall mount bracket

**Step 1:**  
After rotating the horn, as described in section 7.6, remove all four M8 bolts from the rear of the loudspeaker.

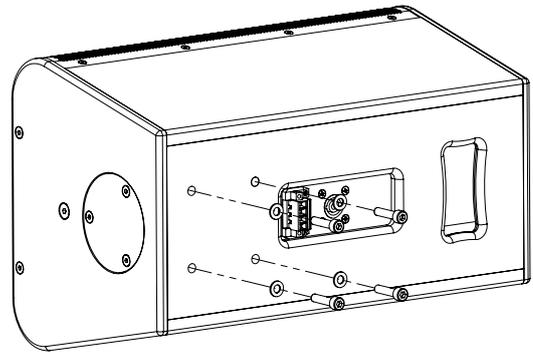


Figure 7.8: Venu bolt removal

**Step 2:**  
Remove the front of the bracket from the main bracket assembly. Attach the rear of the bracket assembly to the wall making sure all 4 bolts are fitted.



Take care when mounting the bracket to the wall, making sure to use the correct fixing and that the wall can take the load, for example do not attach the bracket to a stud wall.

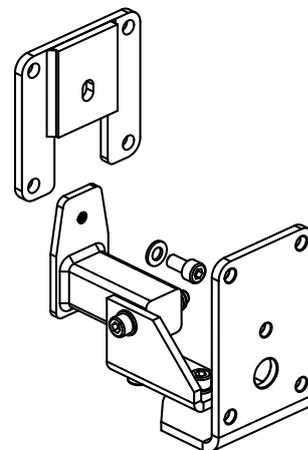


Figure 7.9: Deconstructing the bracket assembly

## 7.3 Mounting in landscape mode

---

### Step 3:

Attach the front of the bracket assembly to the rear of the loudspeaker using all four M8 bolts.

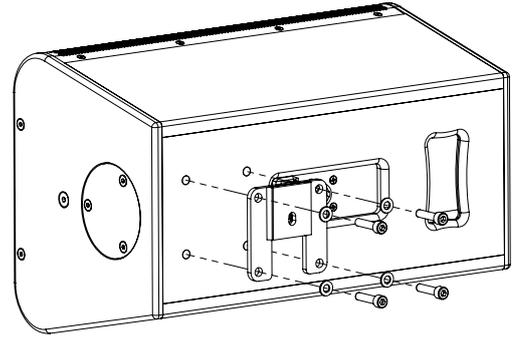


Figure 7.10: Attaching bracket to loudspeaker

### Step 4:

Lower the speaker assembly on to the rear of the bracket assembly and adjust the bracket so that loudspeaker is in the required position.

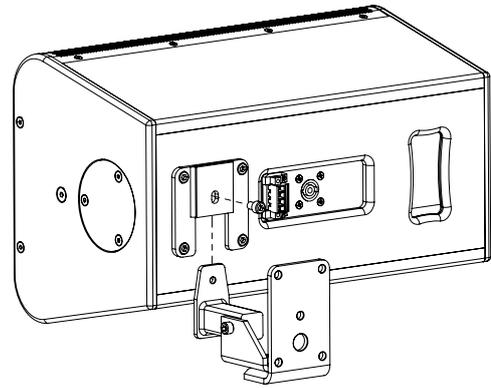


Figure 7.11: Loudspeaker positioning

### Step 5:

Adjust the bracket in the horizontal axis by loosening the bolt at the rear of the assembly (figure 7.12a) and in the vertical axis by adjusting the bolt on the base of the assembly (figure 7.12b).

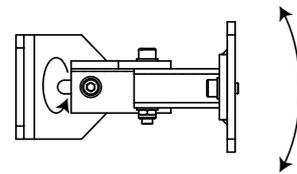


Figure 7.12a: Bracket adjustment

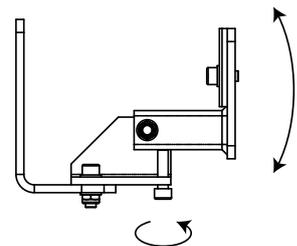


Figure 7.12b: Bracket adjustment

## 7.4 High frequency enclosure ceiling mount

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Parts required (see Appendix D for part numbers):

- Venu Series Ceiling Mount Bracket

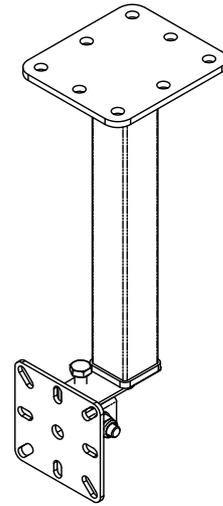


Figure 7.13: Venu Series Ceiling Mount Bracket

Step 1:  
Remove all four M8 bolts from the rear of the loudspeaker.

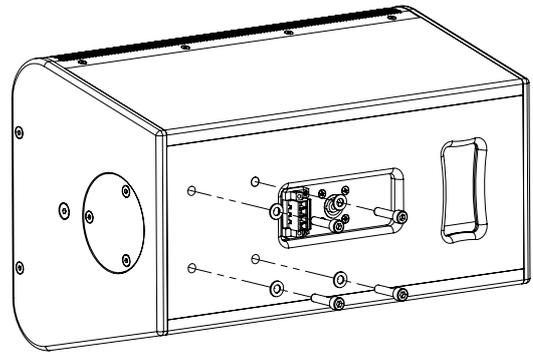


Figure 7.14: Venu bolt removal

Step 2:  
Lift the loudspeaker into position and attach all four M8 bolts.



Take care when mounting the bracket to the ceiling, making sure to use the correct fixing and that the ceiling can take the load, for example do not attach the bracket to a suspended ceiling.

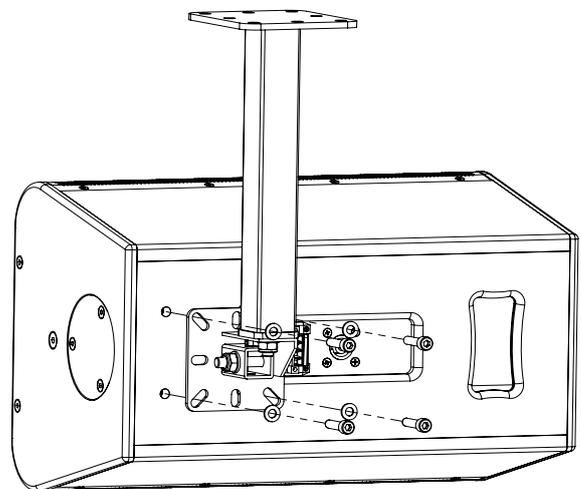


Figure 7.15: Fixing bracket

## 7.4 High frequency enclosure ceiling mount

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Step 3:  
With the lifting gear in place adjust the angle of the bracket using the bolt on the bracket assembly.

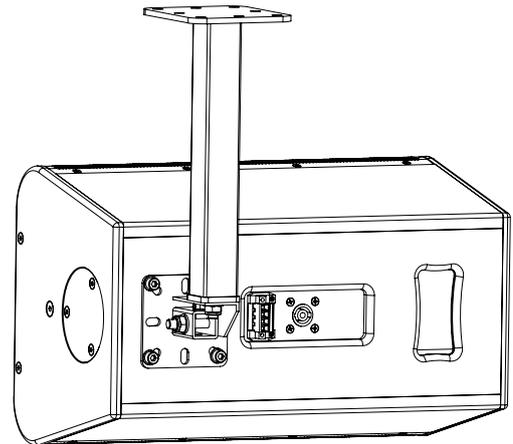


Figure 7.16: Attaching bracket to loudspeaker

Step 4:  
Tighten the bolt on the bracket to fix the loudspeaker in position.

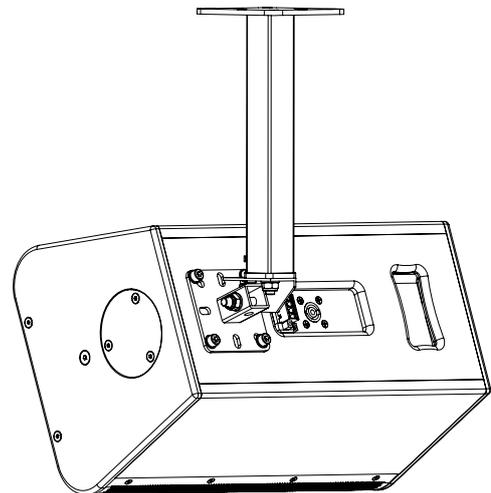


Figure 7.17: Loudspeaker positioning

# 7.5 Yoke bracket mounting

Parts required (see Appendix D for part numbers):

- Venu series yoke bracket (Venu 6, 8, 10, 12, 15, 112, 212, 115 V2)

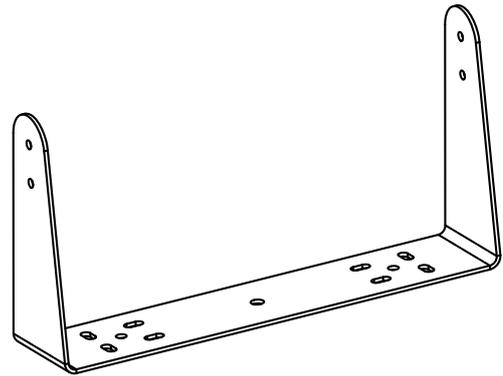


Figure 7.18: Venu series yoke bracket

**Step 1:**  
Begin by fixing the yoke by the central bolt hole and adjusting the position until the yoke is in the required position.

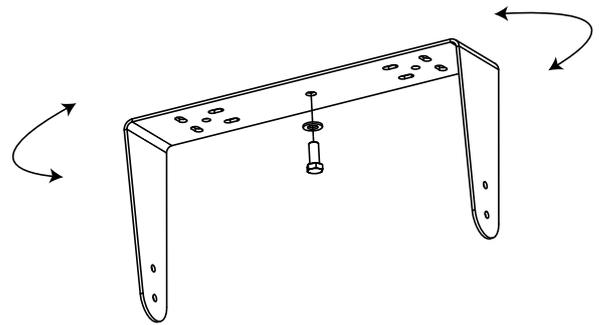


Figure 7.19: Yoke adjustment

**Step 2:**  
Fix the yoke into position by fitting the remaining bolts.



Take care when mounting the yoke to the wall/ceiling, making sure to use the correct fixing and that it can take the load, for example do not attach the yoke to a stud wall.

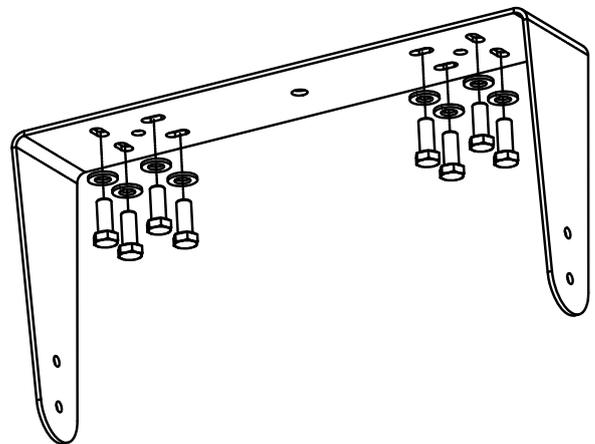


Figure 7.20: Yoke fixing

## 7.5 Yoke bracket mounting

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### Step 3:

Remove the countersunk M8 bolts from the top and bottom of the loudspeaker.

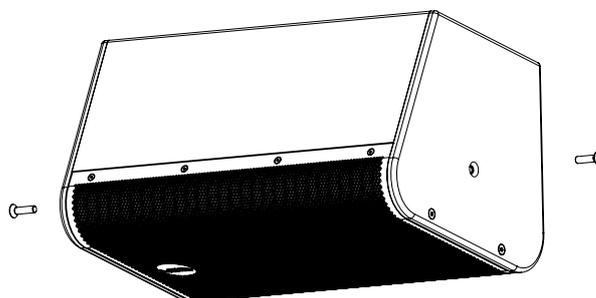


Figure 7.21: Venu series yoke bracket

### Step 4:

Lift the loudspeaker into position. Do NOT use the countersunk M8 bolts from the Venu loudspeaker but instead use the M8 bolts supplied with the yoke bracket. Fit the M8 bolts but do not tighten.

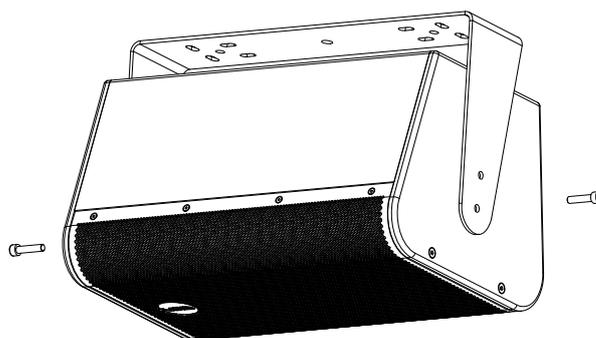


Figure 7.22: Loudspeaker fitting

### Step 5:

Rotate the loudspeaker into position and then tighten the bolts.

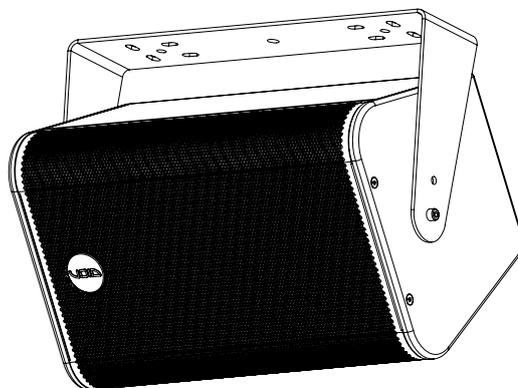


Figure 7.23: Loudspeaker positioning

## 7.6 Horn rotation

---

Step 1:  
Remove all eight M4 bolts from the side of the cabinet

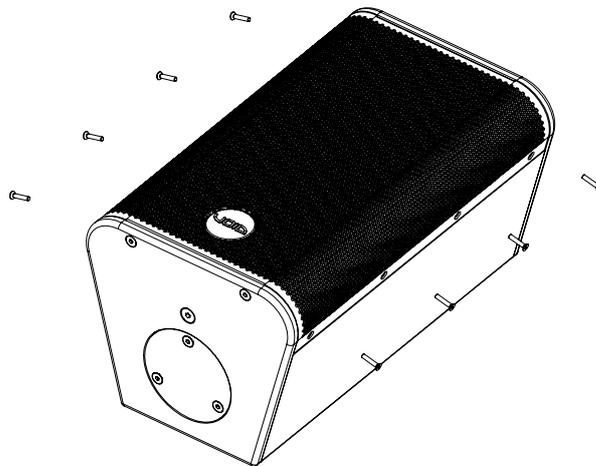


Figure 7.24: Remove M4 bolts

Step 2:  
Loosen, but do not remove the four M6 bolts at the top and bottom of cabinet and carefully remove the grille.

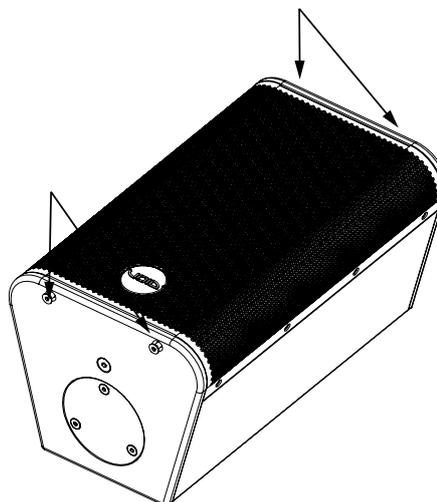


Figure 7.25: Grill removal

Step 3:  
Remove all four M5 bolts from around the horn.

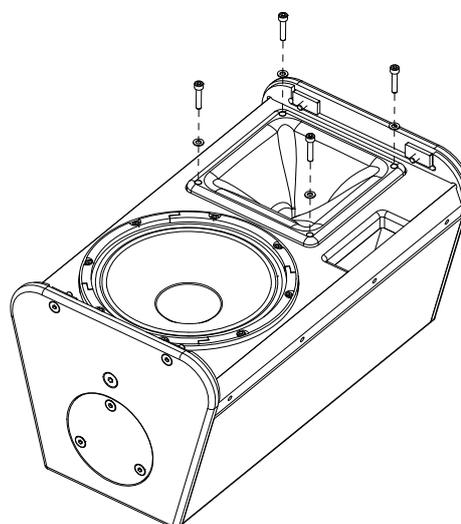


Figure 7.26: Removing horn screws

## 7.6 Horn rotation

---

### Step 4:

Rotate the horn and return it to its position within the enclosure and redo all four bolts. See section 6.5 for horn orientation guidelines.

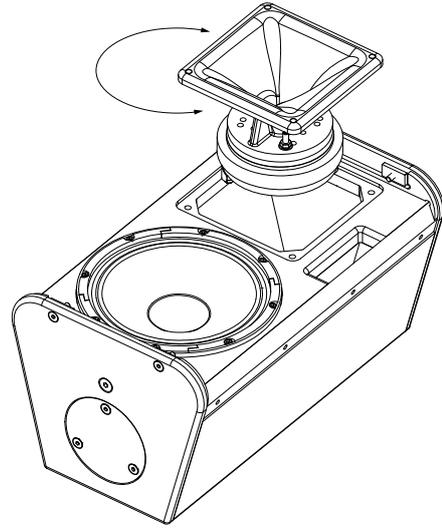


Figure 7.27: Rotating horn

### Step 5:

Replace the grille and tighten the M6 bolts at the top and bottom of the cabinet and insert all eight M4 bolts in the side.

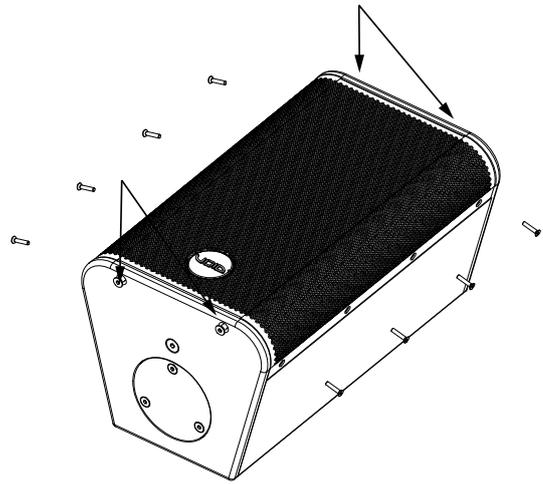


Figure 7.28: Grille replacement

### Step 6:

Rotate the badge to the desired orientation by lifting and turning 90°. The badge will locate automatically once in position.

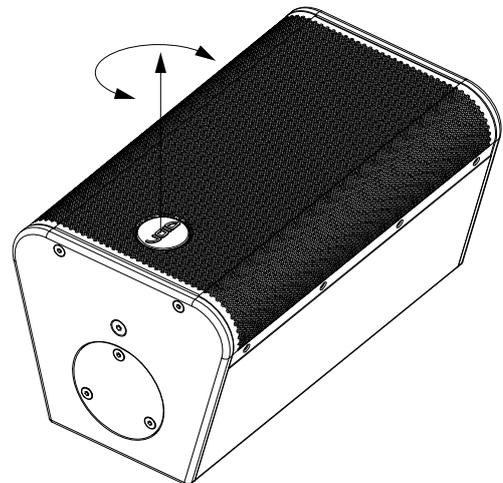


Figure 7.29: Badge rotation

## 7.7 Low frequency enclosure wall mount

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For use with:  
Venu 112/115 V2

Part required (see Appendix D for part numbers):  
WHD75 bracket

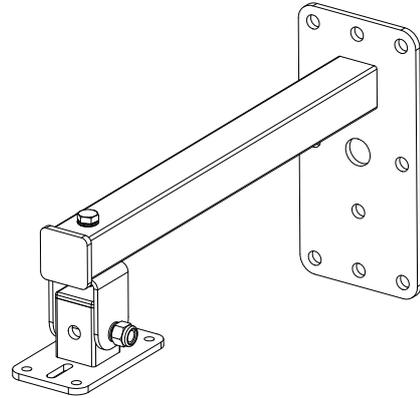


Figure 7.30: WHD75 bracket

Step 1:  
Remove the type 75 plate from the WHD75 by removing the M12 bolt.



Take care when mounting the WHD75 to the wall, making sure to use the correct fixing and that it can take the load, for example do not attach the yoke to a stud wall.

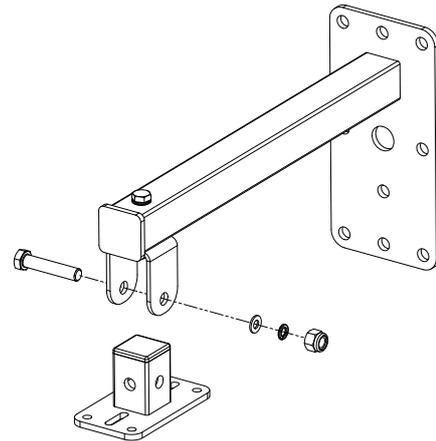


Figure 7.31: Nut removal

Step 2:  
Remove all four M8 countersunk bolts from the bottom of the loudspeaker

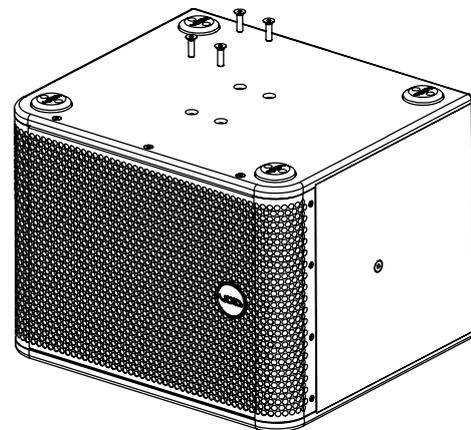


Figure 7.32: Bolt removal

## 7.7 Low frequency enclosure wall mount

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Step 4:

Attach the type 75 plate to the loudspeaker using the M8 socket cap bolts supplied with the bracket.

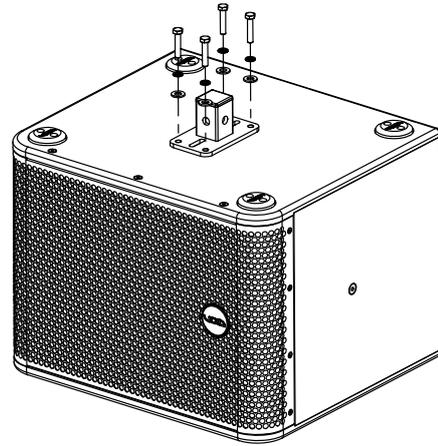


Figure 7.33: Attaching the type 75 plate

Step 5:

Raise the loudspeaker into position and attach the M12 nut.

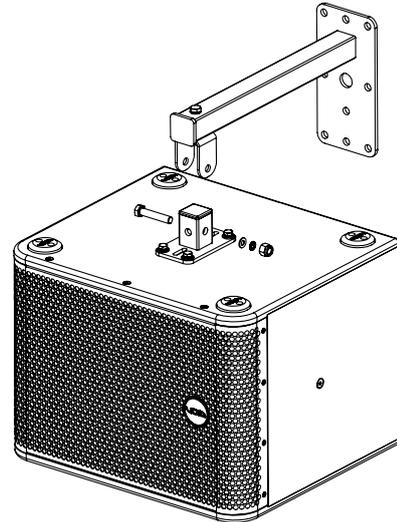


Figure 7.34: Loudspeaker fixing

Step 6:

Rotate the loudspeaker into the desired position and tighten the M12 bolt.

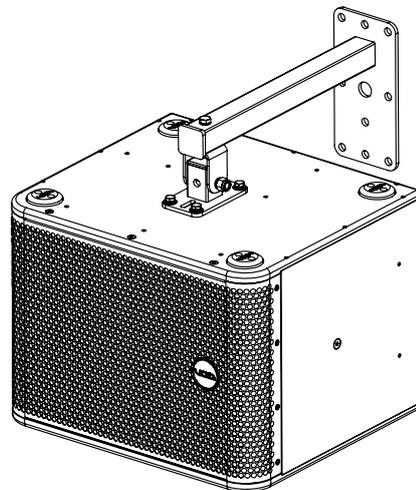


Figure 7.35: Loudspeaker positioning

## 7.8 Low frequency enclosure ceiling mount

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For use with:  
Venu 112/115 V2

Part required (see Appendix D for part numbers):  
Air series ceiling bracket

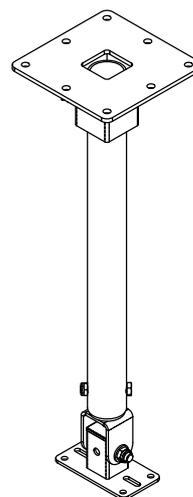


Figure 7.36: Air series ceiling bracket

Step 1:  
Remove the type 75 plate from the Air series ceiling bracket by removing the M12 bolt.

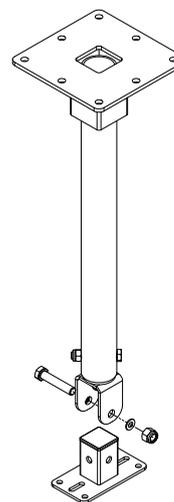


Figure 7.37: Nut removal

Step 2:  
Remove all four M8 counter sink bolts from the bottom of the loudspeaker

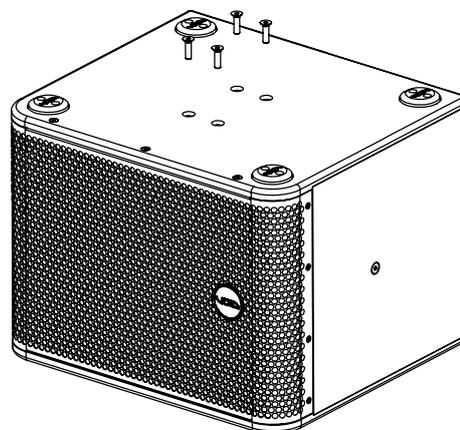


Figure 7.38: Bolt removal

## 7.8 Low frequency enclosure ceiling mount

---

Step 4:

Attach the type 75 plate to the loudspeaker using the M8 socket cap bolts supplied with the bracket.

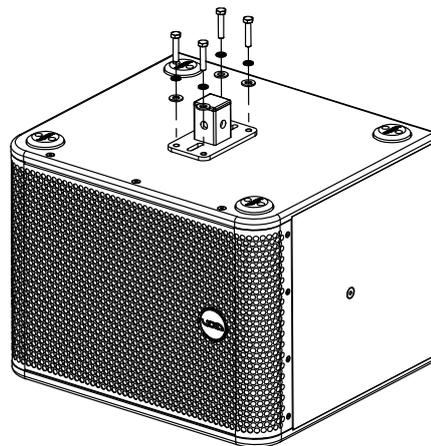


Figure 7.39: Attaching the type 75 plate

Step 5:

Raise the loudspeaker into position and attach the M12 nut.

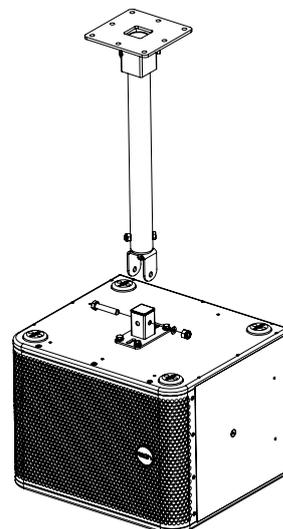


Figure 7.40: Loudspeaker fixing

Step 6:

Rotate the loudspeaker into the desired position and tighten the M12 bolt.

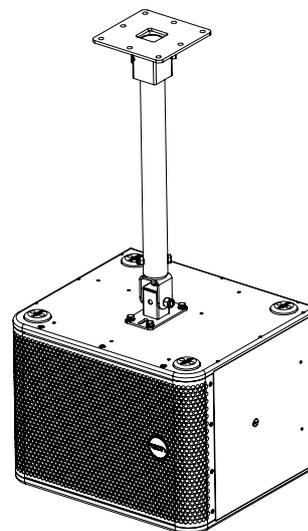


Figure 7.41: Loudspeaker positioning

## 7.9 Top hat installation for low frequency enclosures

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For use with:  
Venu 112/212/115/215 V2

Part required (see Appendix D for part numbers):  
Heavy Duty Top Hat

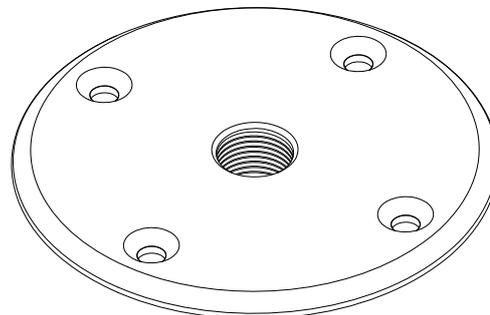


Figure 7.42: Heavy duty top hat

Step 1:  
Remove all four M6 bolts and remove the cover plate.

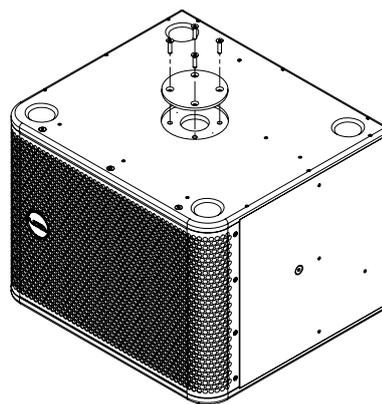


Figure 7.43: Cover plate removal

Step 2:  
Insert the Heavy Duty Top Hat and replace all four M6 bolts.

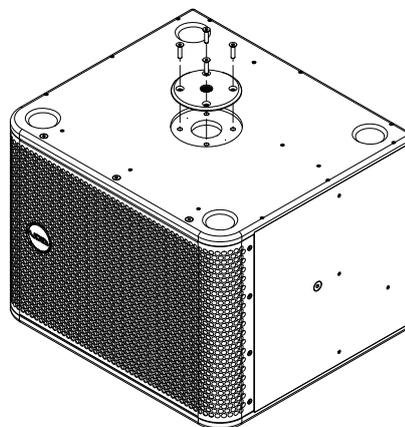


Figure 7.44: Top hat placement

## 7.10 Top hat installation for high frequency enclosures

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For use with:  
Venu 6/8/10/12/15 V2

Part required (see Appendix D for part numbers):  
Venu V2 Top Hat

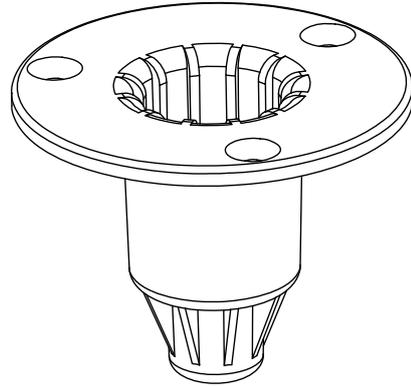


Figure 7.45: Venu V2 top hat

Step 1:  
Remove all three M6 bolts and remove the cover plate.

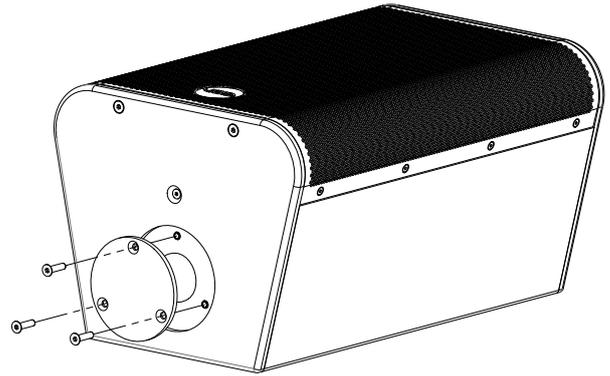


Figure 7.46: Cover plate removal

Step 2:  
Insert the Venu V2 Top Hat and replace all three M6 bolts.

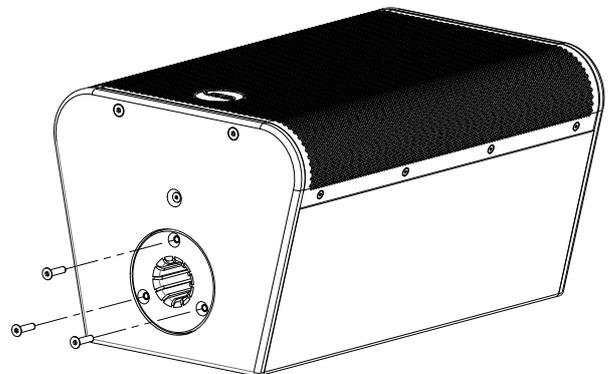


Figure 7.47: Top hat placement

# 8 Service

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Void Venu V2 Series loudspeakers should only be serviced by a fully-trained technician.



No user serviceable parts inside. Refer servicing to your dealer.

## 8.1 Return authorisation

Before returning your faulty product for repair, please remember to get an R.A.N. (Return Authorisation Number) from the Void dealer who supplied the system to you. Your dealer will handle the necessary paperwork and repair. Failure to go through this return authorisation procedure could delay the repair of your product.

Note that your dealer will need to see a copy of your sales receipt as proof of purchase so please have this to hand when applying for return authorisation.

## 8.2 Shipping and packing considerations

- When sending a Void Venu V2 Series loudspeaker to an authorised service centre, please write a detailed description of the fault and list any other equipment used in conjunction with the faulty product.
- Accessories will not be required. Do not send the instruction manual, cables or any other hardware unless your dealer asks you to.
- Pack your unit in the original factory packaging if possible. Include a note of the fault description with the product. Do not send it separately.
- Ensure safe transportation of your unit to the authorised service centre.

# 9 Appendix A: Specifications

## A.1 Venu 6 V2 specifications

Frequency response	75 Hz - 22 kHz $\pm 3$ dB
Efficiency <sup>1</sup>	95 dB 1W/1m
Crossover points	2.4 kHz passive
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	200 W AES
Maximum output <sup>3</sup>	118 dB cont, 121 dB peak
Driver configuration	1 x 6.5" LF, 1 x 1" HF compression driver
Dispersion	90°H x 60°V rotatable
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	372 mm (14.6")
Width	224 mm (8.8")
Depth	202 mm (8")
Weight	9.5 kg (20.9 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 fixing points for type 80 plate Optional top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

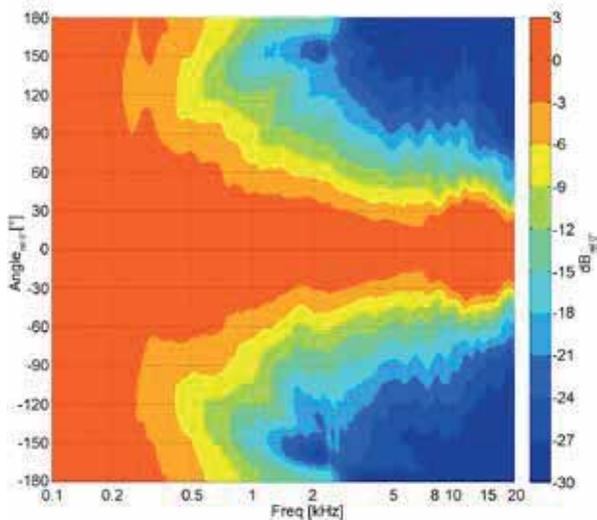


Figure A.1: Horizontal directivity isobars

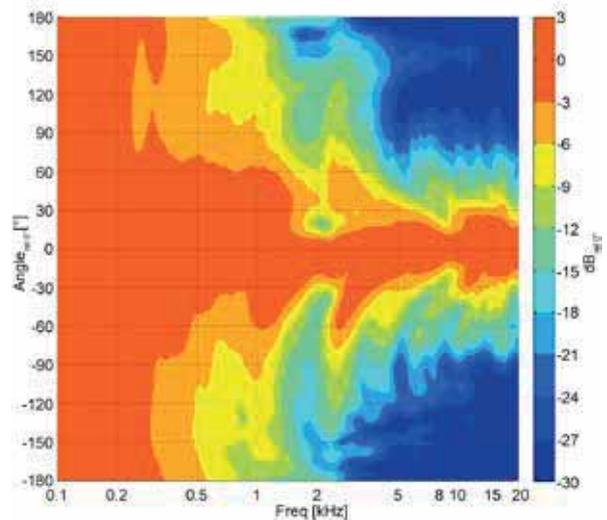


Figure A.2: Vertical directivity isobars

# 9 Appendix A: Specifications

## A.2 Venu 8 V2 specifications

Frequency response	70 Hz - 22 kHz $\pm 3$ dB
Efficiency <sup>1</sup>	97 dB 1W/1m
Crossover points	2.3 kHz passive
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	300 W AES
Maximum output <sup>3</sup>	121 dB cont, 124 dB peak
Driver configuration	1 x 8" LF, 1 x 1" HF compression driver
Dispersion	90°-40°H x 60°V rotatable
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	415 mm (16.3")
Width	245 mm (9.6")
Depth	228 mm (9")
Weight	12 kg (26.5 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 fixing points for type 80 plate Optional top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

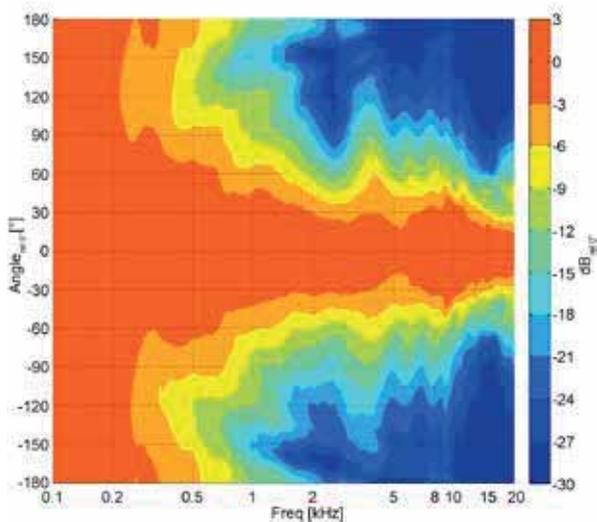


Figure A.3: Horizontal directivity isobars

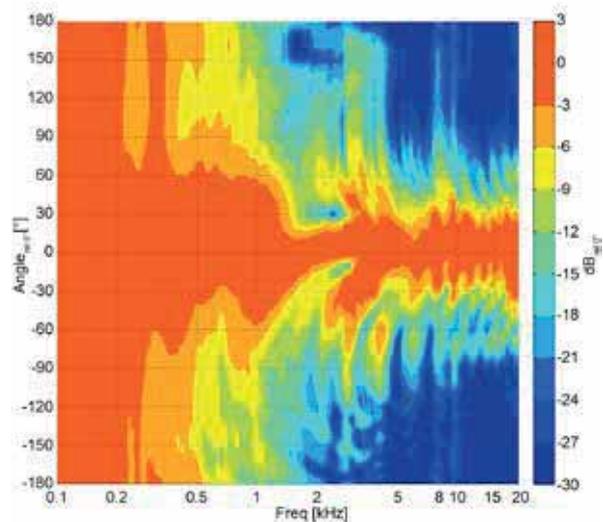


Figure A.4: Vertical directivity isobars

# 9 Appendix A: Specifications

## A.3 Venu 10 V2 specifications

Frequency response	65 Hz - 22 kHz $\pm 3$ dB
Efficiency <sup>1</sup>	97 dB 1W/1m
Crossover points	2.1 kHz passive
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	350 W AES
Maximum output <sup>3</sup>	123 dB cont, 126 dB peak
Driver configuration	1 x 10" LF, 1 x 1" HF compression driver
Dispersion	90°-40°H x 60°V rotatable
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	469 mm (18.5")
Width	301 mm (11.9")
Depth	260 mm (10.2")
Weight	16 kg (35.3 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 fixing points for type 80 plate Optional top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

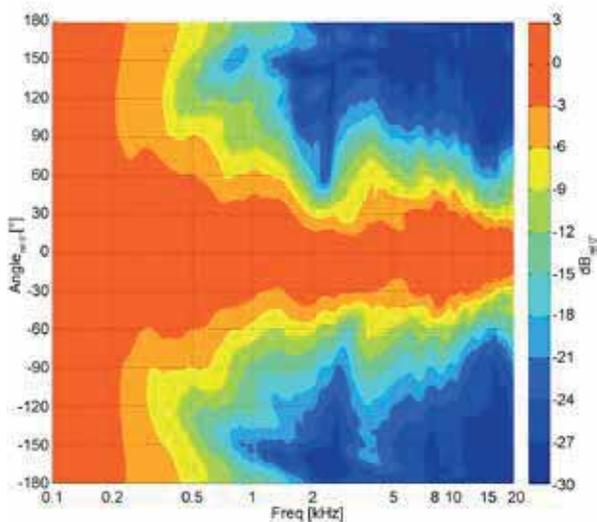


Figure A.5: Horizontal directivity isobars

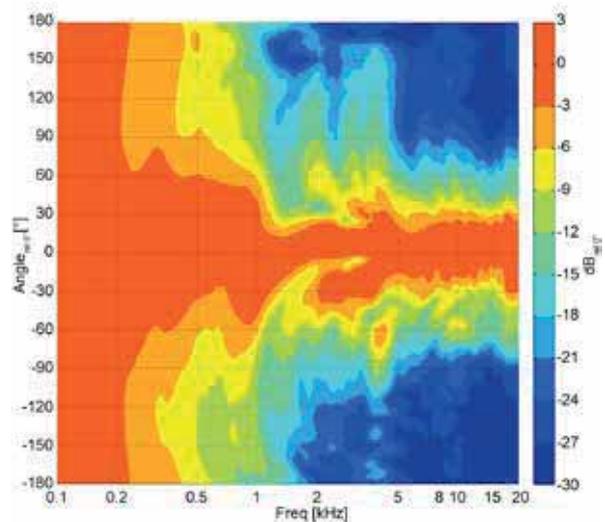


Figure A.6: Vertical directivity isobars

# 9 Appendix A: Specifications

## A.4 Venu 12 V2 specifications

Frequency response	60 Hz - 22 kHz $\pm 3$ dB
Efficiency <sup>1</sup>	98 dB 1W/1m
Crossover points	2.1 kHz passive
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	400 W AES
Maximum output <sup>3</sup>	124 dB cont, 127 dB peak
Driver configuration	1 x 12" LF, 1 x 1" HF compression driver
Dispersion	90°-40°H x 60°V rotatable
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	522 mm (20.6")
Width	370 mm (14.6")
Depth	340 mm (13.4")
Weight	22 kg (48.5 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 fixing points for type 80 plate Optional top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

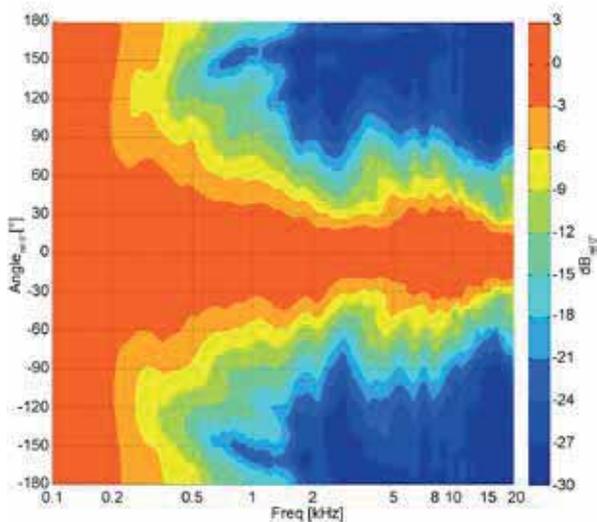


Figure A.7: Horizontal directivity isobars

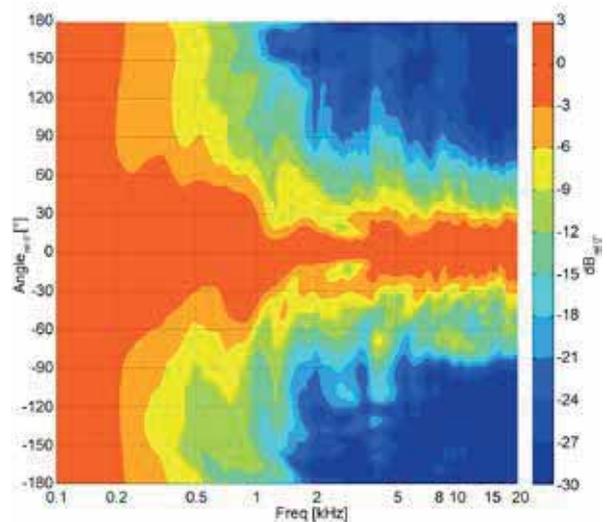


Figure A.8: Vertical directivity isobars

# 9 Appendix A: Specifications

## A.5 Venu 15 V2 specifications

Frequency response	50 Hz - 22 kHz $\pm 3$ dB
Efficiency <sup>1</sup>	99 dB 1W/1m
Crossover points	2.1 kHz passive
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	450 W AES
Maximum output <sup>3</sup>	125 dB cont, 128 dB peak
Driver configuration	1 x 15" LF, 1 x 1" HF compression driver
Dispersion	90°-40°H x 60°V rotatable
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	670 mm (26.4")
Width	458 mm (18")
Depth	381 mm (15")
Weight	31 kg (68.3 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 fixing points for type 80 plate Optional top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

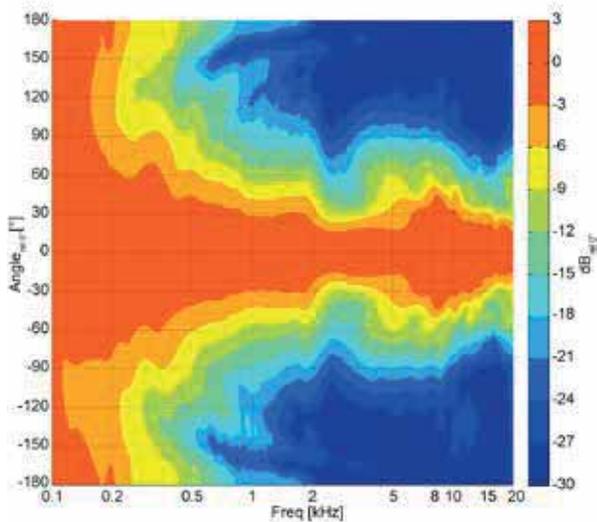


Figure A.9: Horizontal directivity isobars

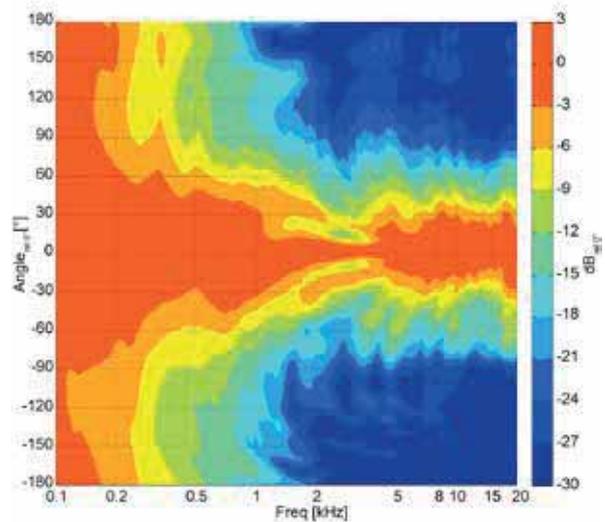


Figure A.10: Vertical directivity isobars

# 9 Appendix A: Specifications

## A.5 Venu 112 V2 specifications

Frequency response	40 Hz - 160 Hz $\pm 3$ dB
Efficiency <sup>1</sup>	99 dB 1W/1m
Crossover points	80 Hz - 160 Hz active
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	600 W AES
Maximum output <sup>3</sup>	123 dB cont, 129 dB peak
Driver configuration	1 x 12" LF
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	370 mm (14.6")
Width	490 mm (19.3")
Depth	430 mm (16.9")
Weight	24 kg (52.9 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 bolts for type 75 plate Optional M20 top hat for pole mount

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

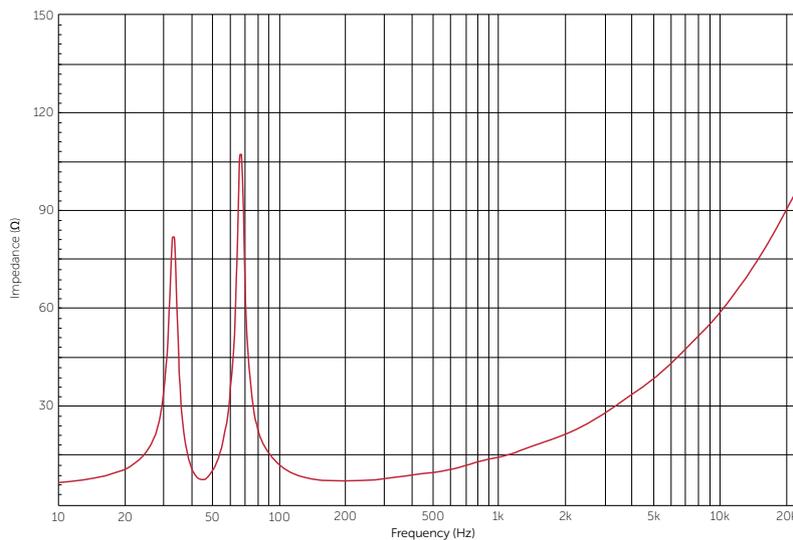


Figure A.11: Venu 112 V2 impedance graph

# 9 Appendix A: Specifications

## A.6 Venu 212 V2 specifications

Frequency response	34 Hz - 160 Hz $\pm 3$ dB
Efficiency <sup>1</sup>	99 dB 1W/1m
Crossover points	80 Hz - 160 Hz active
Nominal impedance	4 $\Omega$
Power handling <sup>2</sup>	1200 W AES
Maximum output <sup>3</sup>	128 dB cont, 134 dB peak
Driver configuration	2 x 12" LF
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	370 mm (14.6")
Width	780 mm (30.7")
Depth	490 mm (19.3")
Weight	44.5 kg (98.1 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions Optional M20 top hat for pole mount

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

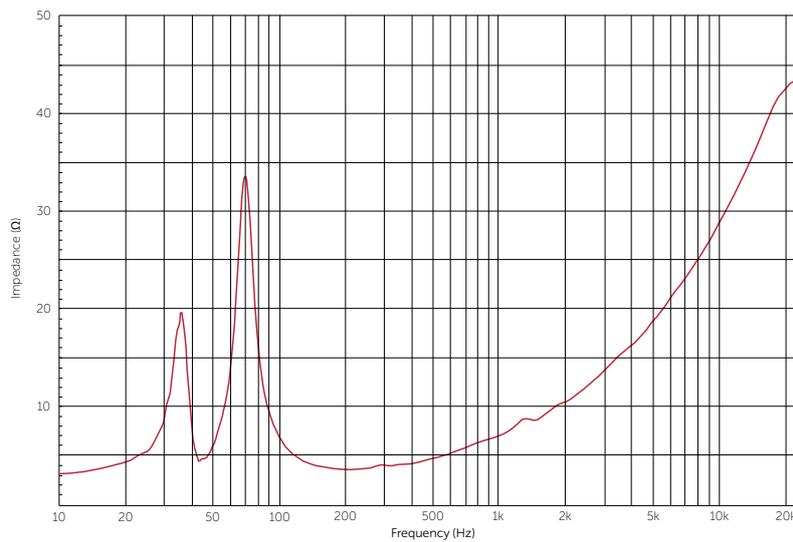


Figure A.12: Venu 212 V2 impedance graph

# 9 Appendix A: Specifications

## A.7 Venu 115 V2 specifications

Frequency response	38 Hz - 160 Hz $\pm 3$ dB
Efficiency <sup>1</sup>	96 dB 1W/1m
Crossover points	80 Hz - 160 Hz active
Nominal impedance	8 $\Omega$
Power handling <sup>2</sup>	500 W AES
Maximum output <sup>3</sup>	123 dB cont, 129 dB peak
Driver configuration	1 x 15" LF
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	446 mm (17.6")
Width	448 mm (17.6")
Depth	636 mm (25")
Weight	35 kg (77.2 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Yoke bracket positions 4 x M8 bolts for type 75 plate Optional M20 top hat for pole mount

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

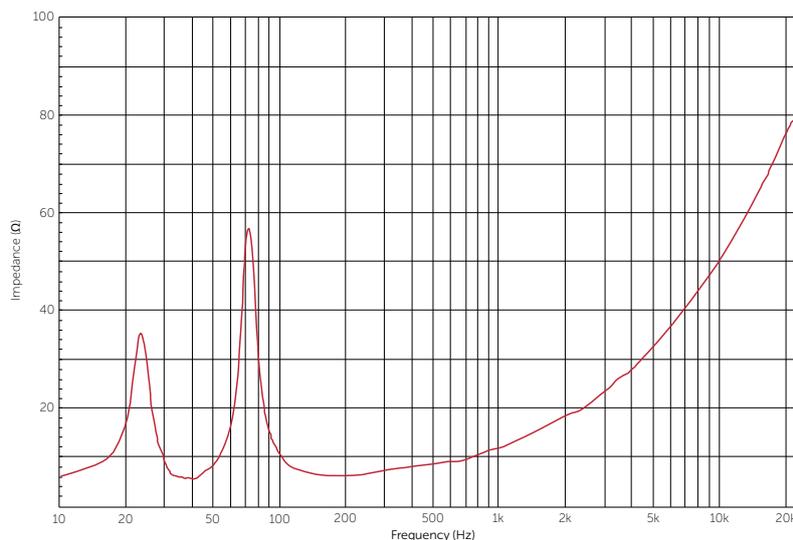


Figure A.13: Venu 115 V2 impedance graph

# 9 Appendix A: Specifications

## A.8 Venu 215 V2 specifications

Frequency response	38 Hz - 160 Hz $\pm 3$ dB
Efficiency <sup>1</sup>	99 dB 1W/1m
Crossover points	80 Hz - 160 Hz active
Nominal impedance	4 $\Omega$
Power handling <sup>2</sup>	1000 W AES
Maximum output <sup>3</sup>	130 dB cont, 136 dB peak
Driver configuration	2 x 15" LF
Connectors	1 x Phoenix with link out 1 x speakON™ with link out
Height	446 mm (17.6")
Width	860 mm (33.9")
Depth	636 mm (25")
Weight	62.5 kg (137.8 lbs)
Enclosure	15 mm birch plywood
Finish	Textured polyurethane
Grill	Perforated steel with foam filter
Rigging	Optional M20 top hat for pole mount

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

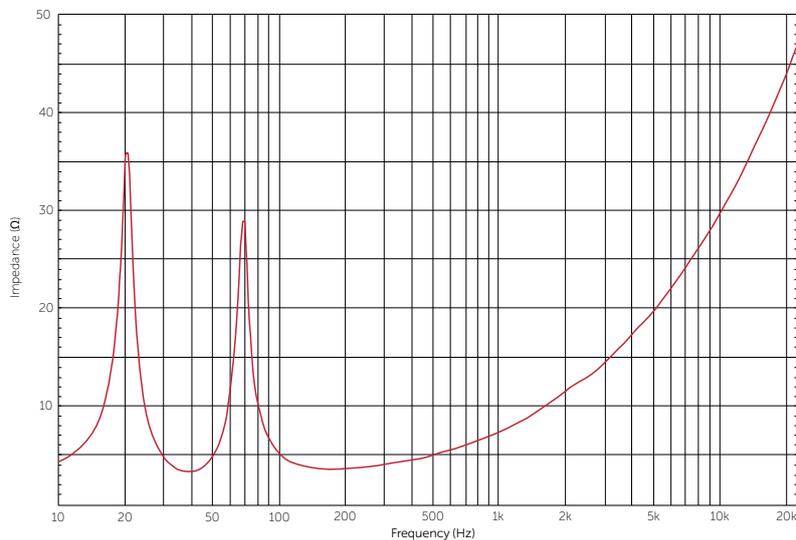


Figure C.4: Venu 215 impedance graph



# 10 Appendix B: Dimensions

## B.3 Venu 10 V2 dimensions

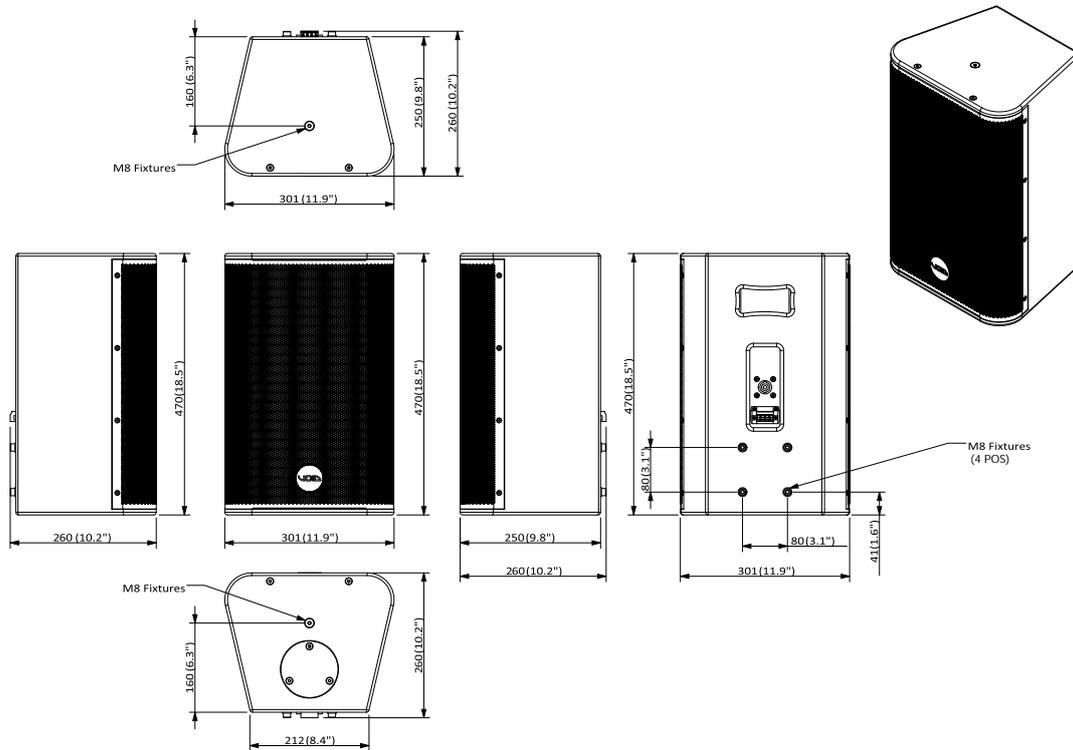


Figure B.3: Venu 10 V2 dimensions

## B.4 Venu 12 V2 dimensions

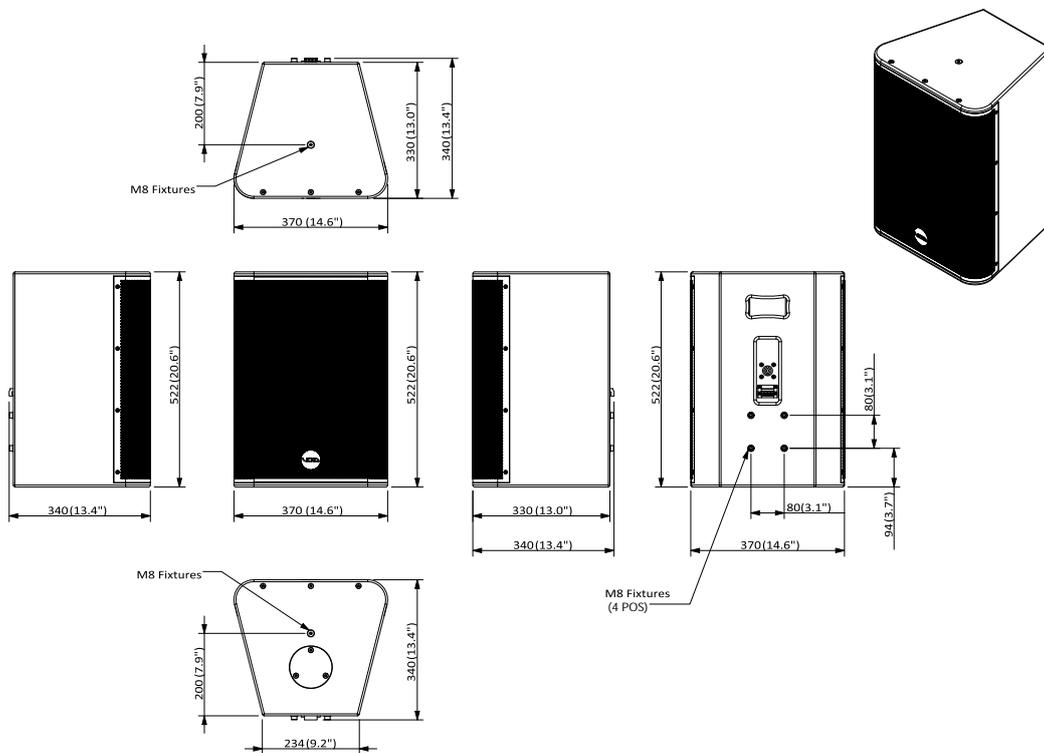


Figure B.4: Venu 12 V2 dimensions

# 10 Appendix B: Dimensions

## B.5 Venu 15 V2 dimensions

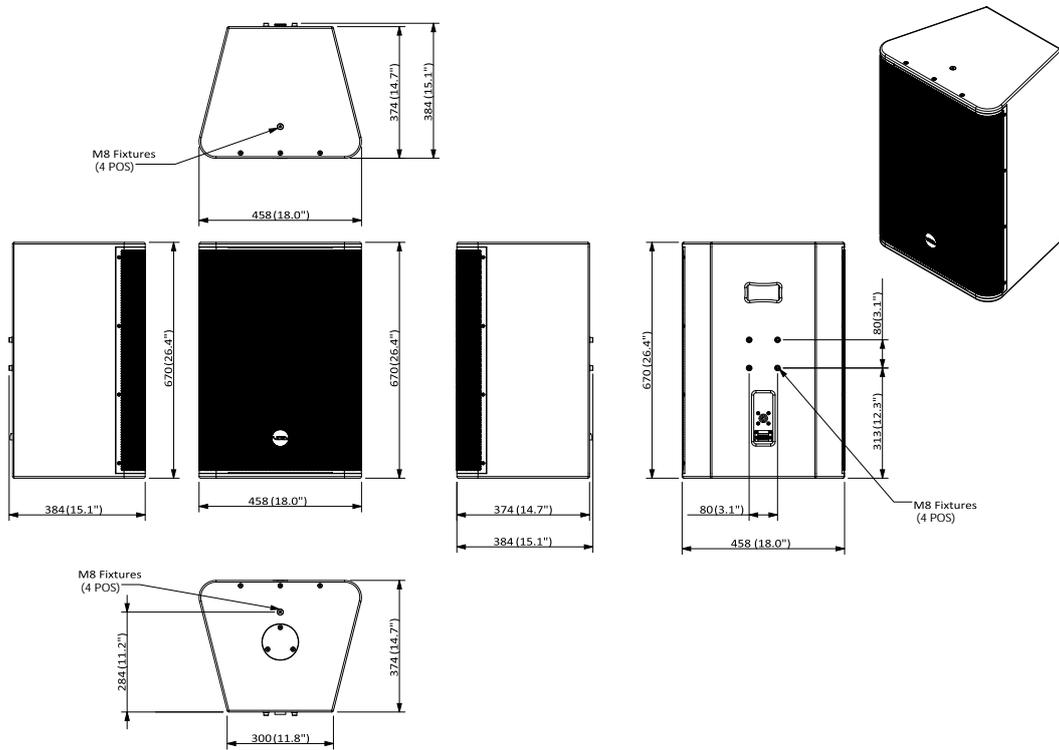


Figure B.5: Venu 15 V2 dimensions

## B.6 Venu 112 V2 dimensions

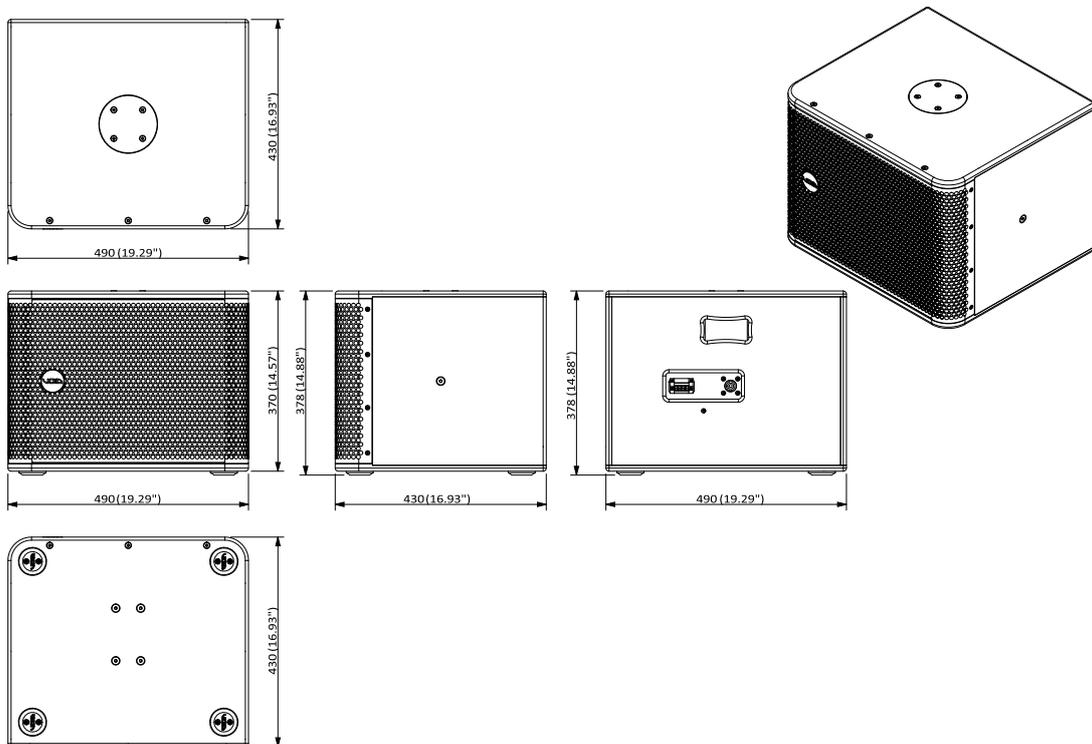


Figure B.6: Venu 112 V2 dimensions

# 10 Appendix B: Dimensions

## B.7 Venu 212 V2 dimensions

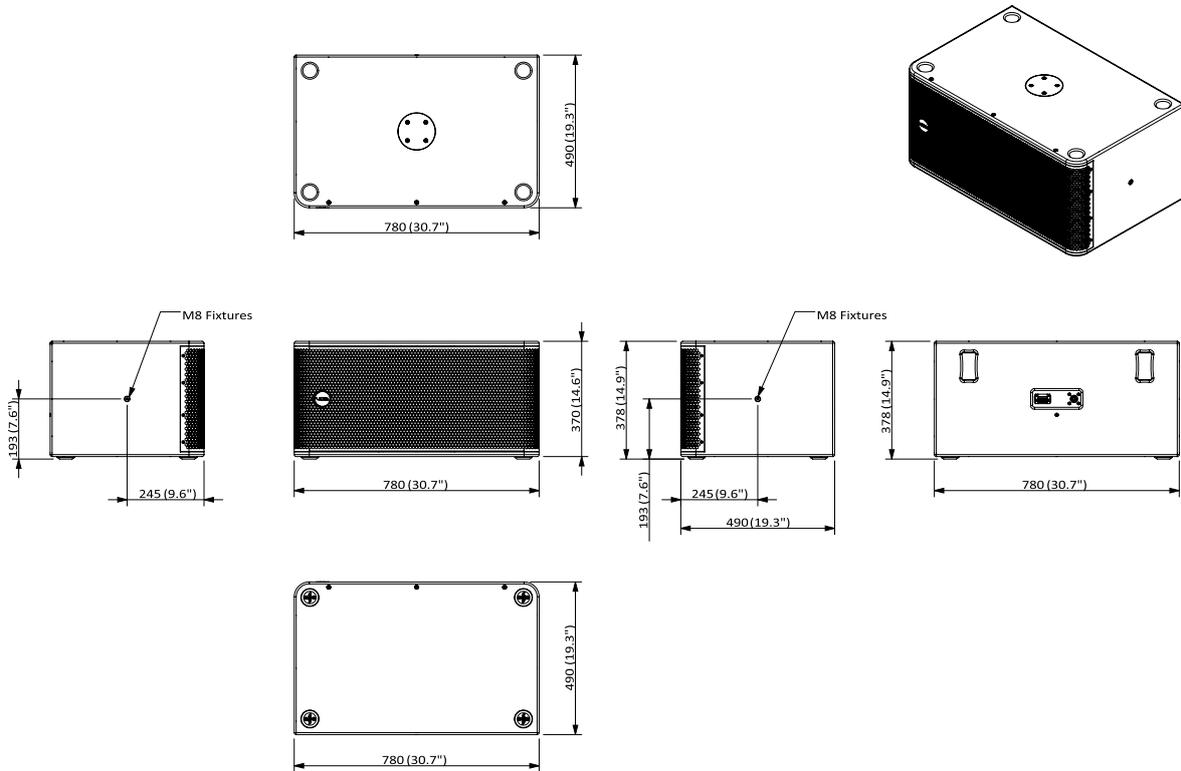


Figure B.7: Venu 212 V2 dimensions

## B.8 Venu 115 V2 dimensions

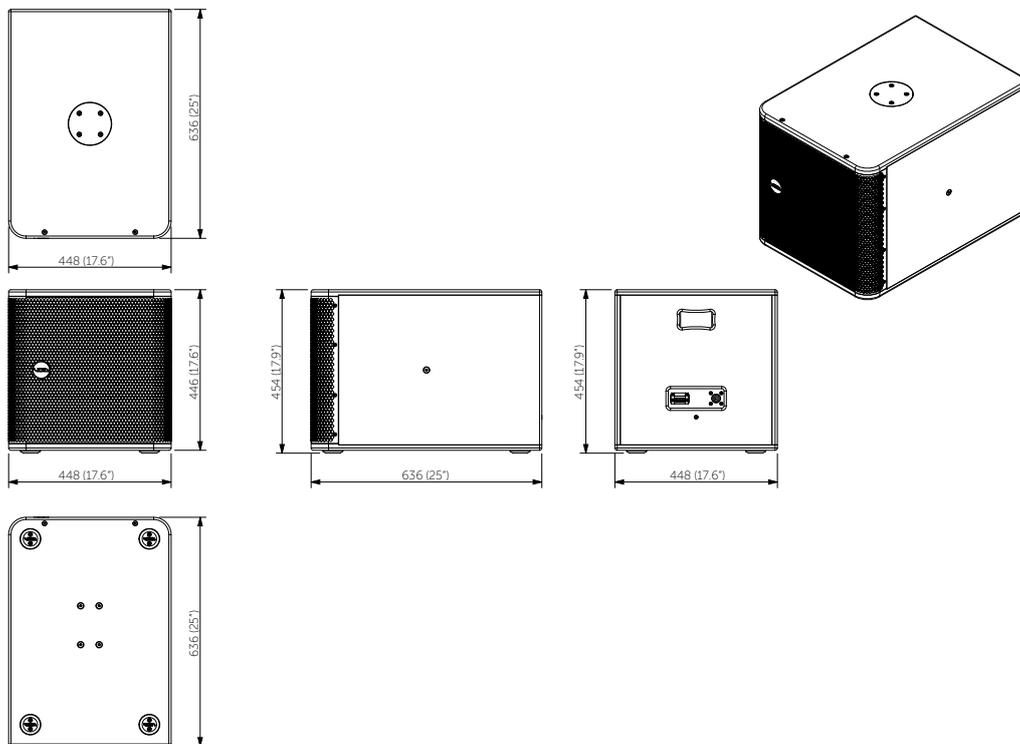


Figure B.8: Venu 115 V2 dimensions

# 10 Appendix B: Dimensions

## B.9 Venu 215 V2 dimensions

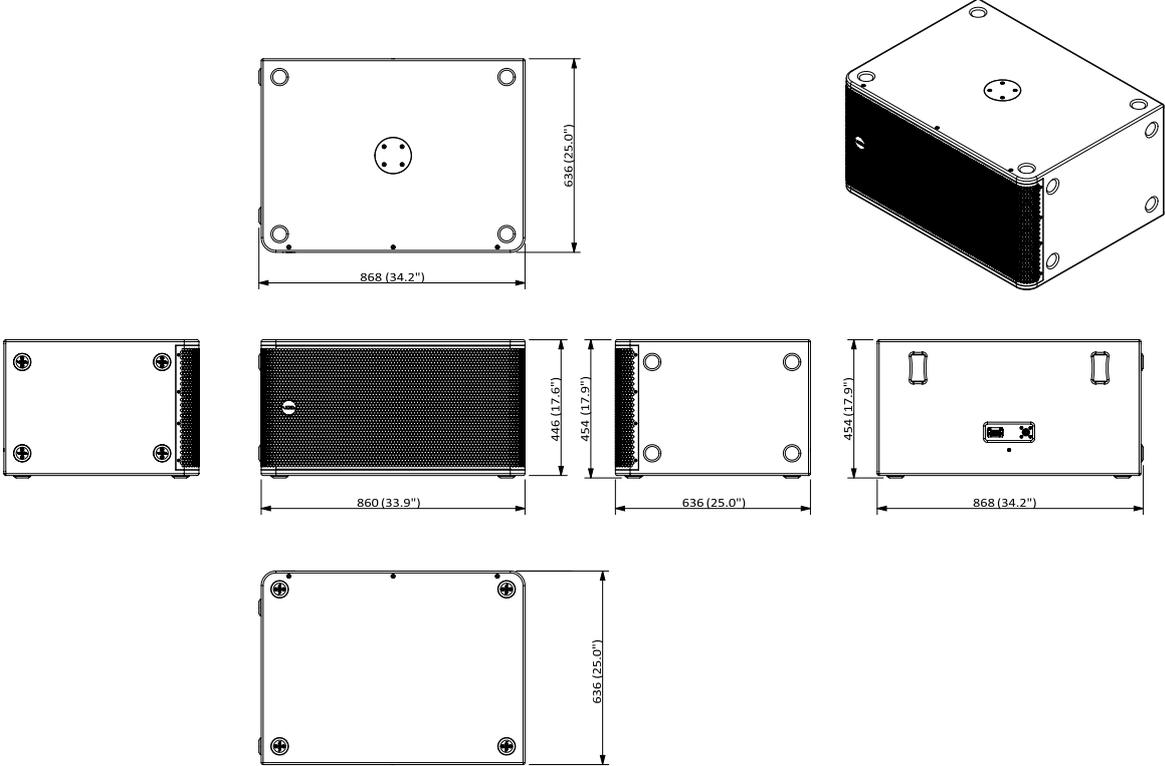


Figure B.9: Venu 215 V2 dimensions

# 11 Appendix C: Architectural specifications

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## Venu 6 V2 architectural specifications

The loudspeaker shall be a passive two-way system consisting of one high power 6.5" (165 mm), direct radiating, reflex loaded, low frequency (LF) transducer and 1" (25 mm) diameter composite plastic exit, high frequency (HF) compression driver mounted on a user rotatable elliptic horn in a trapezoidal enclosure fitted with a wrap around grille and rotatable badge.

Power handling shall be 200 W AES at a nominal impedance of 8  $\Omega$ . Crossover point shall be at 2.4 kHz using a 3rd order filter (18 dB per octave). The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 75 Hz to 19 kHz ( $\pm 3$  dB) and shall average 90° directivity pattern on the horizontal axis and 60° on the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 121 dB peak measured at 1 m using IEC268-5 pink noise.

The high frequency transducer shall project it's sound through an elliptic horn with a 152 mm (6") baffle diameter to achieve pattern control and low distortion. The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, 38.1 mm (1.5") voice coil, wound with copper wires on a high quality Kapton voice coil former, for high power handling and long-term reliability.

The enclosure shall be of a trapezoidal shape constructed from a 15 mm multi-laminate birch plywood, with a textured polyurethane finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware as well as removable cover plate for fixing an optional M20 top-hat. External dimensions of (W) 224 mm x (H) 372 mm x (D) 202 mm (8.8" x 14.6" x 7.9"). Weight shall be 9.5 kg (20.9 lbs).

The loudspeaker shall be the Void Acoustics Venu 6 V2.

# 11 Appendix C: Architectural specifications

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## Venu 8 V2 architectural specifications

The loudspeaker shall be a passive two-way system consisting of one high power 8" (203.2 mm), direct radiating, reflex loaded, low frequency (LF) transducer and 1" (25 mm) diameter composite plastic exit, high frequency (HF) compression driver mounted on a user rotatable asymmetrical horn in a trapezoidal enclosure fitted with a wraparound grille and rotatable badge.

Power handling shall be 300 W AES at a nominal impedance of 8  $\Omega$ . Crossover point shall be at 2.3 kHz using a 3rd order filter (18 dB per octave). The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 70 Hz to 20 kHz ( $\pm 3$  dB) and shall average 90° to 60° directivity pattern on the horizontal axis and 60° on the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 124 dB peak measured at 1 m using IEC268-5 pink noise.

The high frequency transducer shall project its sound through an asymmetrical horn with a 152 mm (6") baffle diameter to achieve pattern control and low distortion. The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, 50.8 mm (2") voice coil, wound with copper wires on a high quality Kapton voice coil former, for high power handling and long-term reliability.

The enclosure shall be of a trapezoidal shape constructed from a 15 mm multi-laminate birch plywood, with a textured polyurethane finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware as well as removable cover plate for fixing an optional M20 top-hat. External dimensions of (W) 245 mm x (H) 415 mm x (D) 228 mm (9.6" x 16.3" x 9"). Weight shall be 12 kg (26.5 lbs).

The loudspeaker shall be the Void Acoustics Venu 8 V2.

# 11 Appendix C: Architectural specifications

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## Venu 10 V2 architectural specifications

The loudspeaker shall be a passive two-way system consisting of one high power 10" (250 mm), direct radiating, reflex loaded, low frequency (LF) transducer and 1" (25 mm) diameter composite plastic exit, high frequency (HF) compression driver mounted on a user rotatable asymmetrical horn in a trapezoidal enclosure fitted with a wraparound grille and rotatable badge.

Power handling shall be 350 W AES at a nominal impedance of 8  $\Omega$ . Crossover point shall be at 2.1 kHz using a 3rd order filter (18 dB per octave). The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 65 Hz to 20 kHz ( $\pm 3$  dB) and shall average 90° to 60° directivity pattern on the horizontal axis and 60° on the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 126 dB peak measured at 1 m using IEC268-5 pink noise.

The high frequency transducer shall project its sound through an asymmetrical horn with a 152 mm (6") baffle diameter to achieve pattern control and low distortion. The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, 50.8 mm (2") voice coil, wound with copper wires on a high quality Kapton voice coil former, for high power handling and long-term reliability.

The enclosure shall be of a trapezoidal shape constructed from a 15 mm multi-laminate birch plywood, with a textured polyurethane finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware as well as removable cover plate for fixing an optional M20 top-hat. External dimensions of (W) 301 mm x (H) 469 mm x (D) 260 mm (11.9" x 18.5" x 10.2"). Weight shall be 16 kg (35.3 lbs).

The loudspeaker shall be the Void Acoustics Venu 10 V2.

# 11 Appendix C: Architectural specifications

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## Venu 12 V2 architectural specifications

The loudspeaker shall be a passive two-way system consisting of one high power 12" (304.8 mm), direct radiating, reflex loaded, low frequency (LF) transducer and 1" (25 mm) diameter composite plastic exit, high frequency (HF) compression driver mounted on a user rotatable asymmetrical horn in a trapezoidal enclosure fitted with a wrap around grille and rotatable badge.

Power handling shall be 400 W AES at a nominal impedance of 8  $\Omega$ . Crossover point shall be at 2.1 kHz using a 3rd order filter (18 dB per octave). The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 60 Hz to 20 kHz ( $\pm 3$  dB) and shall average 90° to 60° directivity pattern on the horizontal axis and 60° on the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 127 dB peak measured at 1 m using IEC268-5 pink noise.

The high frequency transducer shall project its sound through an asymmetrical horn with a 152 mm (6") baffle diameter to achieve pattern control and low distortion. The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, 50.8 mm (2") voice coil, wound with copper wires on a high quality Kapton voice coil former, for high power handling and long-term reliability.

The enclosure shall be of a trapezoidal shape constructed from a 15 mm multi-laminate birch plywood, with a textured polyurethane finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware as well as removable cover plate for fixing an optional M20 top-hat. External dimensions of (W) 370 mm x (H) 522 mm x (D) 340 mm (14.6" x 20.6" x 13.4"). Weight shall be 22 kg (48.5 lbs).

The loudspeaker shall be the Void Acoustics Venu 12 V2.

# 11 Appendix C: Architectural specifications

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## Venu 15 V2 architectural specifications

The loudspeaker shall be a passive two-way system consisting of one high power 15" (381 mm), direct radiating, reflex loaded, low frequency (LF) transducer and 1" (25 mm) diameter composite plastic exit, high frequency (HF) compression driver mounted on a user rotatable asymmetrical horn in a trapezoidal enclosure fitted with a wraparound grille and rotatable badge.

Power handling shall be 450 W AES at a nominal impedance of 8  $\Omega$ . Crossover point shall be at 2.1 kHz using a 3rd order filter (18 dB per octave). The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 50 Hz to 20 kHz ( $\pm 3$  dB) and shall average 90° to 60° directivity pattern on the horizontal axis and 60° on the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 128 dB peak measured at 1 m using IEC268-5 pink noise.

The high frequency transducer shall project its sound through an asymmetrical horn with a 152 mm (6") baffle diameter to achieve pattern control and low distortion. The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, 75.5 mm (3") voice coil, wound with copper wires on a high quality Kapton voice coil former, for high power handling and long-term reliability.

The enclosure shall be of a trapezoidal shape constructed from a 15 mm multi-laminate birch plywood, with a textured polyurethane finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware as well as removable cover plate for fixing an optional M20 top-hat. External dimensions of (W) 458 mm x (H) 670 mm x (D) 381 mm (18" x 26.4" x 15"). Weight shall be 31 kg (68.3 lbs).

The loudspeaker shall be the Void Acoustics Venu 15 V2.

# 11 Appendix C: Architectural specifications

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## Venu 112 V2 architectural specifications

The loudspeaker shall be comprised of one high power 12" (304.8 mm) direct radiating, reflex loaded low frequency (LF) transducer. The enclosure shall be rectangular constructed from 15 mm multi-laminated birch plywood with a single handle in the rear with a wraparound grille and a rotating badge; it shall have a removable cover plate for fixing an optional M20 top hat and integral threaded inserts for the fitment of wall and ceiling mounting hardware; it shall be finished in a textured polyurethane with external dimensions of (H) 378 mm x (W) 490 mm x (D) 430 mm (14.9" x 19.3" x 16.9") and weigh 27 kg (59.5 lbs).

The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications of a typical production unit shall be as follows: frequency response of 40 Hz – 160 Hz ( $\pm 3$  dB from rated sensitivity); 600 W long-term program per voice coil using EIA RS-426A pink noise (6 dB crest factor); pressure sensitivity of 96 dB at one Watt 100 Hz – 10 kHz at one metre; rated nominal impedance of 8  $\Omega$ .

The low frequency transducer shall be constructed on a cast aluminium frame with a treated paper cone, 101.6 mm (4") voice, wound with copper wire on a high-quality voice coil former for high power handling and long-term reliability.

The loudspeaker system shall be a Void Acoustics Venu 112 V2.

# 11 Appendix C: Architectural specifications

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## Venu 212 V2 architectural specifications

The loudspeaker shall be comprised of two high power 12" (304.8 mm) direct radiating, reflex loaded low frequency (LF) transducers.

The enclosure shall be rectangular constructed from 15 mm multi-laminated birch plywood with two handles in the rear with a wraparound grille and a rotating badge; it shall have a removable cover plate for fixing an optional M20 top hat and integral threaded inserts for the fitment of wall and ceiling mounting hardware; it shall be finished in a textured polyurethane with external dimensions of (H) 370 mm x (W) 780 mm x (D) 490 mm (14.6" x 30.7" x 19.3") and weigh 47.5 kg (104.7 lbs).

The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications of a typical production unit shall be as follows: frequency response of 34 Hz – 160 Hz ( $\pm 3$  dB from rated sensitivity); 1200 W long-term program per voice coil using EIA RS-426A pink noise (6 dB crest factor); pressure sensitivity of 99 dB at one Watt 100 Hz – 10 kHz at one metre; rated nominal impedance of 4  $\Omega$ .

The low frequency transducer shall be constructed on a cast aluminium frame with a treated paper cone, 101.6 mm (4") voice, wound with copper wire on a high-quality voice coil former for high power handling and long-term reliability.

The loudspeaker system shall be a Void Acoustics Venu 212 V2.

# 11 Appendix C: Architectural specifications

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## Venu 115 V2 architectural specifications

The loudspeaker shall be comprised of one high power 15" (304.8 mm) direct radiating, reflex loaded low frequency (LF) transducer. The enclosure shall be rectangular constructed from 18 mm multi-laminated birch plywood with a single handle in the rear with a wraparound grille and a rotating badge; it shall have a removable cover plate for fixing an optional M20 top hat and integral threaded inserts for the fitment of wall and ceiling mounting hardware; it shall be finished in a textured polyurethane with external dimensions of (H) 454 mm x (W) 448 mm x (D) 636 mm (17.9" x 17.6" x 25") and weigh 31 kg (98.1 lbs).

The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

Performance specifications of a typical production unit shall be as follows: frequency response of 38 Hz – 160 Hz ( $\pm 3$  dB from rated sensitivity); 500 W long-term program per voice coil using EIA RS-426A pink noise (6 dB crest factor); pressure sensitivity of 96 dB at one Watt 100 Hz – 10 kHz at one metre; rated nominal impedance of 8  $\Omega$ .

The low frequency transducer shall be constructed on a cast aluminium frame with a treated paper cone, 101.6 mm (4") voice, wound with copper wire on a high-quality voice coil former for high power handling and long-term reliability.

The loudspeaker system shall be a Void Acoustics Venu 115 V2.

# 11 Appendix C: Architectural specifications

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## Venu 215 V2 architectural specifications

The loudspeaker shall be active comprised of two high power 15" (304.8 mm) direct radiating, reflex loaded low frequency (LF) transducers. The enclosure shall be rectangular constructed from 15 mm multi-laminated birch plywood with two handles in the rear with a wraparound grille and a rotating badge; it shall have a removable cover plate for fixing an optional M20 top hat and shall be finished in a textured polyurethane with external dimensions of (H) 454 mm x (W) 868 mm x (D) 636 mm (17.9" x 34.2" x 25") and weigh 57 kg (125.7 lbs).

Performance specifications of a typical production unit shall be as follows: frequency response of 38 Hz – 160 Hz ( $\pm 3$  dB from rated sensitivity); 1000 W long-term program per voice coil using EIA RS-426A pink noise (6 dB crest factor); pressure sensitivity of 99 dB at one Watt 100 Hz – 10 kHz at one metre; rated nominal impedance of 4  $\Omega$ .

The low frequency transducer shall be constructed on a cast aluminium frame with a treated paper cone, 101.6 mm (4") voice, wound with copper wire on a high-quality voice coil former for high power handling and long-term reliability.

The wiring connection shall be as follows: a removable, lockable wiring connector with four screw-down terminals (one pair for input and one pair for link through to another loudspeaker) to provide secure wiring and allow for pre-wiring of the connector before the installation (this connector should then screw lock to the enclosure for secure attachment). In addition, a Neutrik speakON™ NL4 shall also feature.

The loudspeaker system shall be a Void Acoustics Venu 215 V2.

# 12 Appendix D: Bracket matrix

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	EZ Hang		EZ Hang XL		Yoke Bracket		Venu Series Ceiling Mount		Venu V2 Top Hat		WHD75		Heavy Duty Top Hat	
	White	Black	White	Black	White	Black	White	Black	White	Black	White	Black	White	Black
Venu 6	IT1109	IT1107					IT1106	IT1105		IT2765				
Venu 8	IT1109	IT1107			IT3099	IT1131	IT1106	IT1105		IT2765				
Venu 10			IT1115	IT1114	IT2300	IT1129	IT1106	IT1105		IT2765				
Venu 12			IT1115	IT1114	IT2023	IT1130	IT1106	IT1105		IT2765				
Venu 15			IT1115	IT1114	IT2942	IT2941	IT1106	IT1105		IT2765				
Venu 112			IT1115	IT1114	IT2921	IT2920					IT1133	IT1132	IT2042	IT2041
Venu 212					IT2924	IT2923							IT2042	IT2041
Venu 115					IT2925	IT2926					IT1133	IT1132	IT2042	IT2041
Venu 215													IT2042	IT2041





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