

# VS221 Subwoofer System Product Information



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## Product Information Version-1.0



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# **VS221 Subwoofer System Product Information**

## **SAFETY INSTRUCTIONS**



### **1. Read this document**

### **2. Pay attention to all safety instructions and hazards and obligatory warnings**

### **3. Do not use equipment or accessories that are not approved by QANON AUDIO.**

### **4. Attention to Sound Level**

Do not approach the speaker when operating, and consider wearing earplugs.

Speaker system can produce very high sound pressure level (SPL), which can be instantaneous.

It results in permanent hearing impairment to performers, producers and audiences.

Listening can take place for a long time:

8 hours 90 decibels (A-weighted), 30 minutes 110 decibels (A-weighted), less than 4 minutes 130 decibels (A-weighted).

### **5. Read the manual before operating the product.**

Use speaker system components described in user manual and follow instructions

### **6. Read the rigging manual before installing the product.**

Use the hanging accessories described in the installation manual and follow the relevant procedures.

### **7. Before repairing the product, please read the "Maintenance" section of this document.**

### **8. Do not expose products to extreme conditions**

Do not expose the product to rain or waves.

Do not expose the product to humidity (fog, steam, humidity, cooling, etc.) or overheating (direct sunlight, radiator...) For a long time

### **9. Do not store products on unstable carts, brackets, tripods, brackets or tables.**

### **10. Maintain this document as an integral part of the product**

Put this document in a safe place.

Record any services of the product in the maintenance section of this document

Do not resell products without this update document

Thank you for purchasing QANON AUDIO #VS221. The container shall contain - 1 #VS221 enclosure. Each QANON AUDIO #product has been tested and inspected before it leaves the factory and should arrive intact. Carefully open the container and check for any apparent damage. If so, inform the transport company or distributor immediately. Only the consignee can claim against the carrier for damage in transit. Cartons and packing materials must be kept for inspection by carriers. Read this document carefully to familiarize yourself with the product and identify external documents that contain basic information on correct and safe installation and operation of the product. All the documents described below can be accessed free of charge on the QANON AUDIO < website ([www.qanon-audio.com](http://www.qanon-audio.com)).

As part of the continuous development of technology and standards, QANON AUDIO reserves the following rights:

**Change product specifications and document contents without prior notice. Please visit the QANON AUDIO website regularly to download the latest updates of documents and software.**

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### Features

- Maximum SPL 147dB
- 2 x 21 " Neodymium low frequency drive unit
- 0° coverage angle
- Adjust angle N/C
- ground stacking integrated assembly system
- Add V15 enclosure Extended Subwoofer
- Add V12 enclosure Extended Subwoofer
- Add V10 enclosure Extended Subwoofer
- Low frequency limit extends to 23Hz (-10dB)
- C15/VDA18 power amplifier controller



#### VS221 High Power Extended Subwoofer Loudspeaker

The VS221 subwoofer is internally loaded with two 21-inch speakers. It has powerful impact, sensitivity and low frequency performance, with an X-shaped vent progressive shape on both sides, allowing laminar airflow and reduced turbulence noise. These integrated features help improve work levels while also improving Low frequency efficiency.

VS221 is the recommended ultra low frequency supplement for V15 or V12 line arrays. The VS221 operates at 23Hz. The long stroke unit combined with the left and right H-type inverter holes helps to deliver high sound pressure levels with low distortion. The VS221 provides standard or cardioid directionality combined with physical deployment and appropriate presets.

The VS221 enclosure is made of Baltic birch plywood to ensure maximum acoustic and mechanical integrity.

The VS221 is driven and amplified by a C15 or VDA18 power controller. Protect and optimize different configurations of the speaker system, including cardioid.

Dimensions: 1200mm, height: 600mm, depth: 800mm

weight::93kg (205lbs)

The cabinet shall be fitted with internal hardware and connected via two parallel NL-4 SpeakOn

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### VS221 Technical Specification

Type	Subwoofer
Frequency Response(Preset)	23Hz-200Hz(-10dB)
Horizontal	0°
Drivers	LF:2×21" Neodymium
Handling Power (AES)	LF: 4000W
Maximum Peak SPL	147dB/1m
Nominal Impedance	LF:4Ω
Connections	2 x NL4 SpeakOn
Pin Connections	NL4=LF: +1-1
Heigh Front	600mm
Heigh Back	600mm
Width	1200mm
Depth	800mm
Weight	93kg/205Ib

### Rigging and Handling

Handle	8 ergonomic handles
Antiskid	2 ground runners
Fastener	2 side fastener

### Physical Data

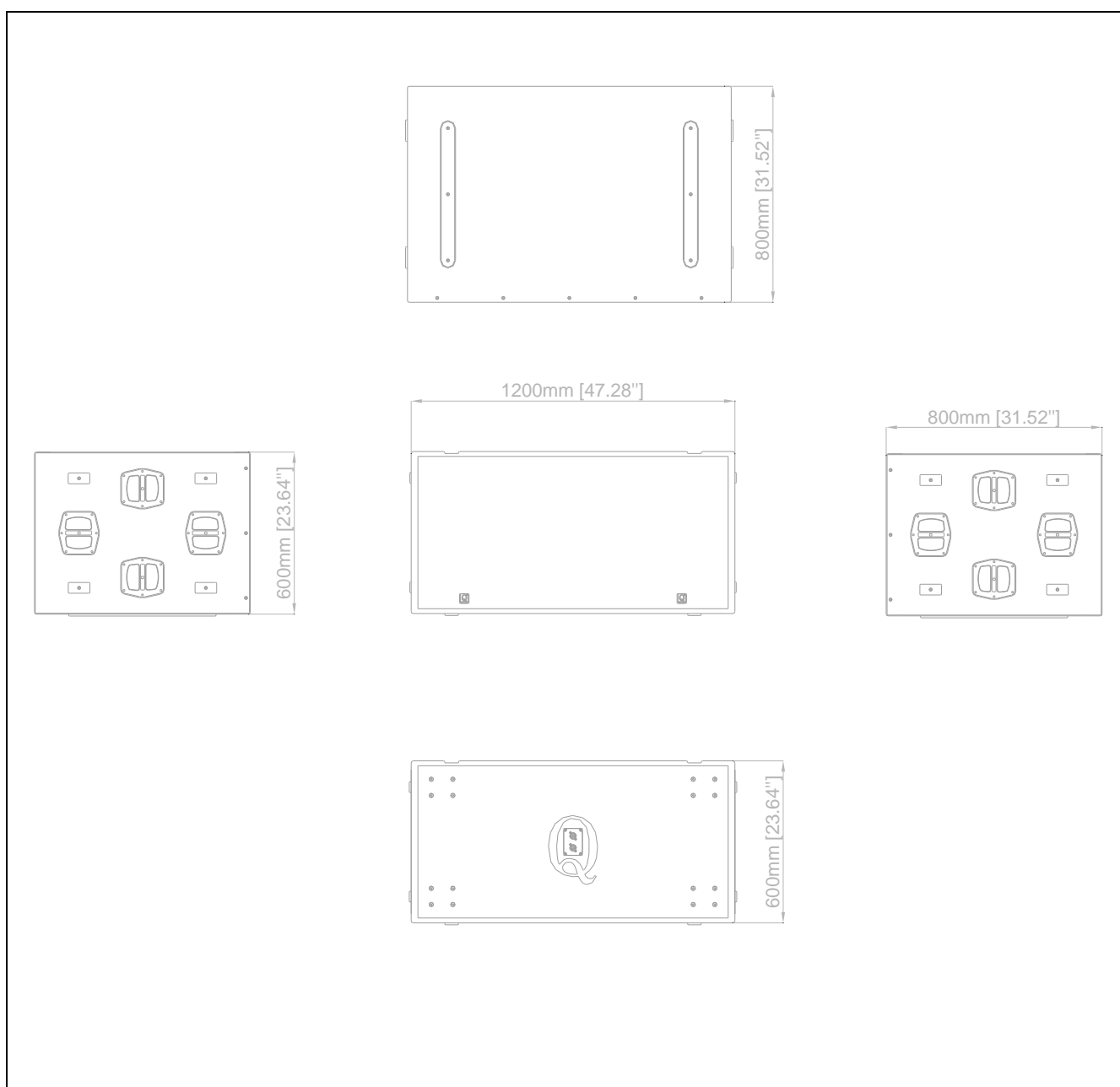
Material	Baltic Birch Plywood
Finish	Dark grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

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### Dimensions



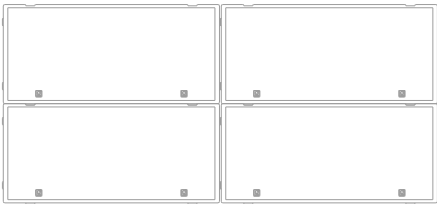
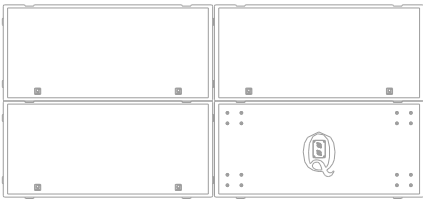
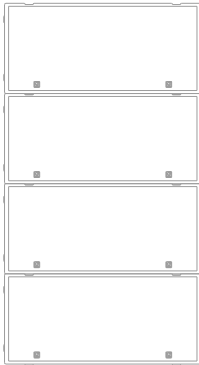
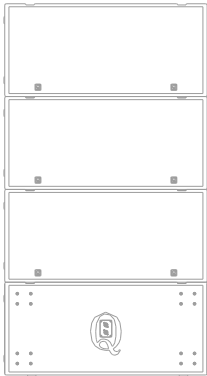
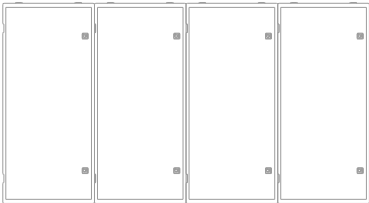
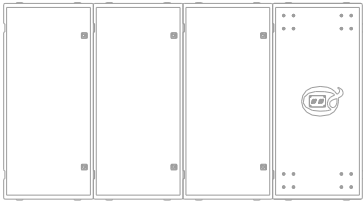

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### Applications VS28 horizontal/vertical or cardioid

	Standard	Cardioid
vertical		
vertical		
Horizontal		
Horizontal		

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## TRANSPORTATION ACCESSORIES

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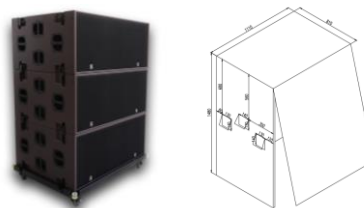
**VS221-Touring case:** removable front case on wheels (one VS221)



**VS221-Chariot:** chariot for up to three / four VS221

**VS221-Chariot Cover:** Protective cover for

Three/four VS221 on VS221-Chariot



## VDA18 DSP CONTROLLER

4 x 1800W / 8ohms

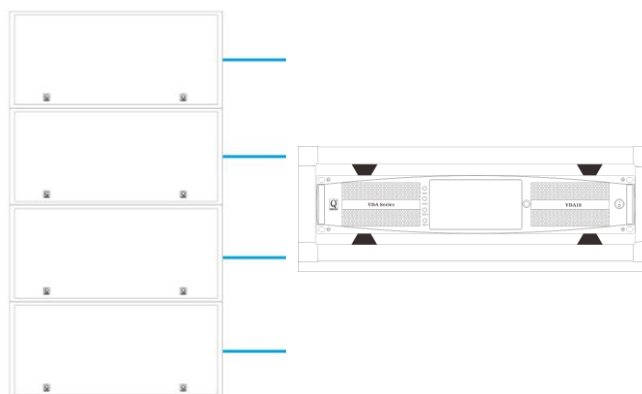
4 inputs x 4 outputs architecture

Max 1 enclosure in parallel FOR VS28

Max 4 enclosure per controller FOR VS28

Max 1 enclosure in Bridge FOR VS28

Max 2 enclosure in Bridge per controller FOR VS28



## C15 CONTROLLER

4 x 1500W / 8ohms

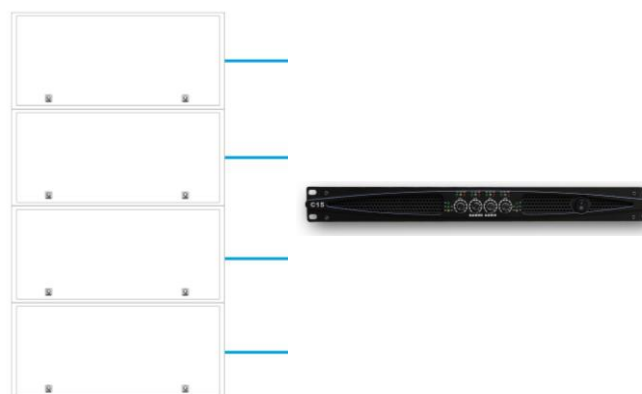
4 inputs x 4 outputs architecture

Max 1 enclosure in parallel FOR VS28

Max 4 enclosure per controller FOR VS28

Max 1 enclosure in Bridge FOR VS28

Max 2 enclosure in Bridge per controller FOR VS28



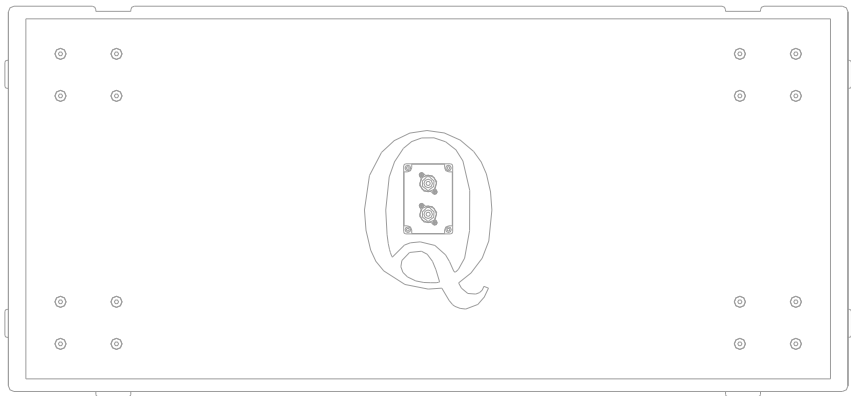
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## Loudspeaker connection

The VS28 is equipped with two 4-point NL-4 speakON connectors.

**VS28**



The VS221 is equipped with two 4-point NL-4 speakON connectors.

**VS221**



NL-4 speakON points	1+	1-	2+	2-
Transducer connectors	LF+	LF-	Not Linked	Not Linked



# VS221 Subwoofer System Product Information



## Maximum number of enclosures per VDA18 / Impedance load (VDA18)

Enclosure	Max enclosure in parallel	Max enclosure per controller
V15	2	2
V12	3	3
V10	3	6
V8	3	6
V18	2	8
V25	1	4
VS28	1	4
VS221	1	4

Enclosure	1	2	3
V15	LF 8 $\Omega$ / MF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / MF 4 $\Omega$ / HF 4 $\Omega$	LF 2.7 $\Omega$ / MF 2.7 $\Omega$ / HF 2.7 $\Omega$
V12	LF 8 $\Omega$ / MF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / MF 4 $\Omega$ / HF 4 $\Omega$	LF 2.7 $\Omega$ / MF 2.7 $\Omega$ / HF 2.7 $\Omega$
V10	LF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / HF 4 $\Omega$	LF 2.7 $\Omega$ / HF 2.7 $\Omega$
V8	LF 8 $\Omega$ / HF 16 $\Omega$	LF 4 $\Omega$ / HF 8 $\Omega$	LF 2.7 $\Omega$ / HF 5.3 $\Omega$
V18	LF 8 $\Omega$	LF 4 $\Omega$	LF 2.7 $\Omega$
V25	LF 4 $\Omega$	None	None
VS28	LF 4 $\Omega$	None	None
VS221	LF 4 $\Omega$	None	None

## Maximum number of enclosures per C15 / Impedance load (C15)

Enclosure	Max enclosure in parallel	Max enclosure per controller
V15	2	2
V12	2	2
V10	3	6
V8	3	6
V18(Bridge Mode)	1	4
V25(Bridge Mode)	1	2
VS28(Bridge Mode)	1	2
VS221(Bridge Mode)	1	2

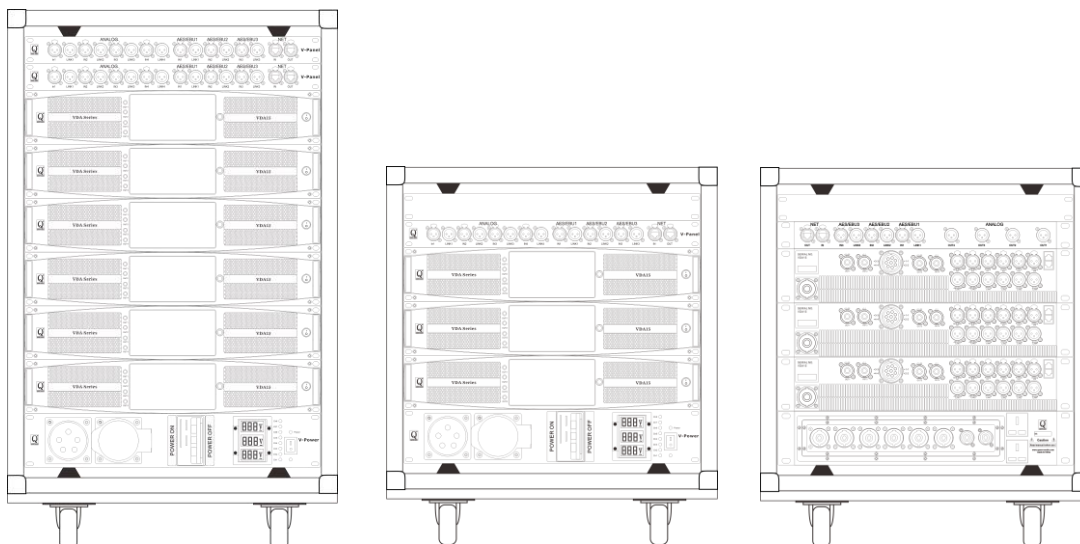
Enclosure	1	2	3
V15	LF 8 $\Omega$ / MF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / MF 4 $\Omega$ / HF 4 $\Omega$	None
V12	LF 8 $\Omega$ / MF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / MF 4 $\Omega$ / HF 4 $\Omega$	None
V10	LF 8 $\Omega$ / HF 8 $\Omega$	LF 4 $\Omega$ / HF 4 $\Omega$	LF 2.7 $\Omega$ / HF 2.7 $\Omega$
V8	LF 8 $\Omega$ / HF 16 $\Omega$	LF 4 $\Omega$ / HF 8 $\Omega$	LF 2.7 $\Omega$ / HF 5.3 $\Omega$
V18	LF 8 $\Omega$	LF 4 $\Omega$	None
V25	LF 4 $\Omega$	None	None
VS28	LF 4 $\Omega$	None	None
VS221	LF 4 $\Omega$	None	None

# VS221 Subwoofer System Product Information

## VDA DSP AMPLIFIED CONTROLLER

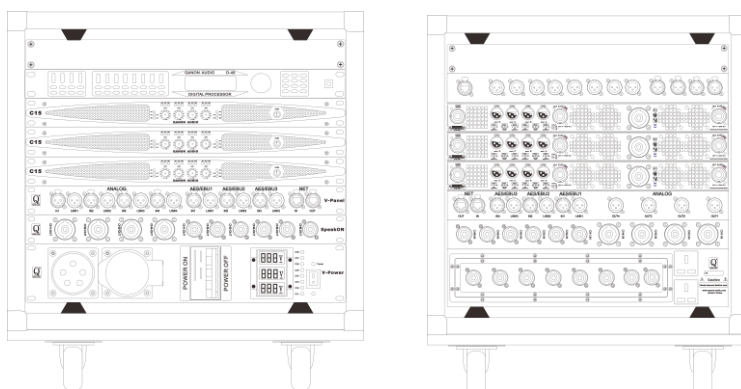


### VDA Rack



### C15 AMPLIFIED CONTROLLER with Processor

### C15 Rack



### ASSOCIATED ENCLOSURES

V15/V12



V10/V8



VS221/VS28/V25



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