V18 Extend Woofer

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 #V18. The container shall contain - 1#V18 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).

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.

V18 Extend Woofer

- Maximum SPL 137dB
- 1 x 18" Neodymium LF driver unit
- 360° horizontal
- Adjust angle: +6°, +5°, +4°, +3°, +2°, +1°
- 0°, -1°, -2°, -3°
- Rigging or ground stacking assembly system
- V10 Line Source system integration
- V8 Line Source system integration
- Low frequency limit extend to 30Hz (-10dB)
- C15 or VDA18/VDA12 power amplifier

V18 High Power Extended Low Frequency Loudspeaker

V18 is a recommended subwoofer for V10 and V8 line arrays and other QANON AUDIO < products. It adds to the sub-low frequency of the system by enhancing the throwing ability of the low frequency. It allows the operating frequency range of the system to be extended to 30Hz.

The V18 Extended Low Frequency Loudspeaker contains an 18-inch speaker. It has strong impact force, sensitivity and low frequency efficiency. Its internal sides have H-shaped vent progressive shape, allowing laminar flow and reducing turbulent noise. These comprehensive characteristics help to improve the working level.

The V18 enclosure is made of Baltic birch plywood to ensure maximum acoustic and mechanical integrity.

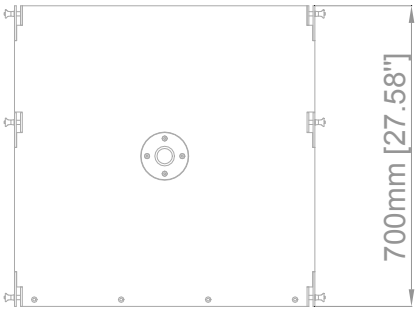
The V18 subwoofer can be used as an independent array or fly at the top of a vertical array composed of V10 or V8 line arrays. V18 is driven and amplified by C15 or VDA18/VDA12 power controller. Protect and optimize different configurations of loudspeaker systems, including cardioid

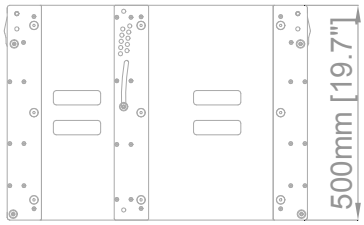
Dimensions: Width:700 mm ,Height: 500 mm , Depth: 700 mm
Weight:61kg (132.5lbs)
The cabinet shall be fitted with internal hardware and connected via two parallel NL-4 SpeakOn

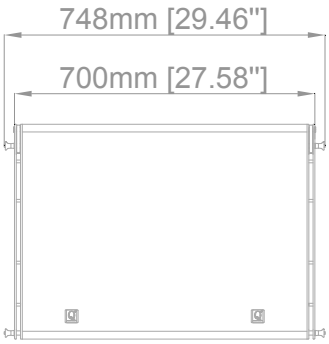
V18 Technical Specification

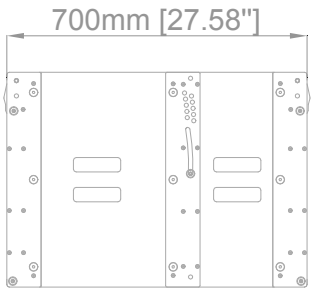
V18 Technical Specification	
Type	Extend Woofer
Frequency Response(Preset)	30Hz-300Hz(-10dB)
Horizontal	360°
Angle Increments(V10 / V8)	-1°- 2°- 3°
Angle Increments(V10 / V8)	0° +1° +2° +3° +4° +5° +6°
Drivers	LF:1×18" Neodymium
Handling Power (AES)	LF:1200W
Maximum Peak SPL	137dB/1m
Nominal Impedance	LF:8Ω
Connections	2 x NL4 SpeakOn
Pin Connections	NL4=LF:+1-1
Height Front	500mm
Height Back	500mm
Width	700mm
Depth	700mm
Weight	61kg / 132.5lb
Rigging and Handling	
Handle	4 ergonomic handles
Pole socket	1x35mm Pole socket
Fastener	6 side fastener
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

Dimensions CAD





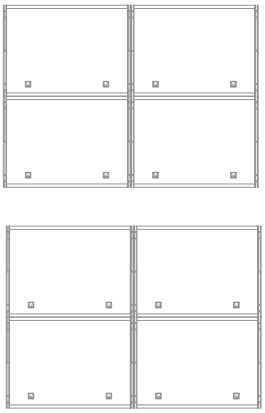




Application V18

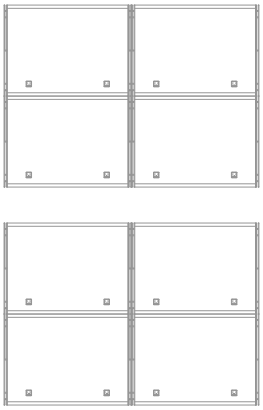
VDA18 DSP controller

4 Input x 4 Output Analog Type
2 Input x 2 Output AES3 Digital Type
2 x RJ45 etherCON® (IN/OUT)
4 x NL4 SpeakOn
1 x 8pin PA-Com
Max 2 enclosure in parallel For V18
Max 8 enclosure per controller For V18



C15 ClassD controller

4 Input Analog Type
4 x NL4 SpeakOn
1 x 8pin PA-Com
Max 2 enclosure in parallel For V18
Max 8 enclosure per controller For V18

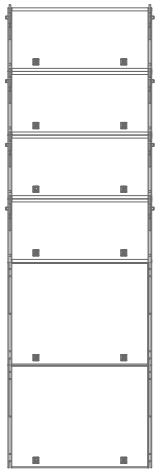


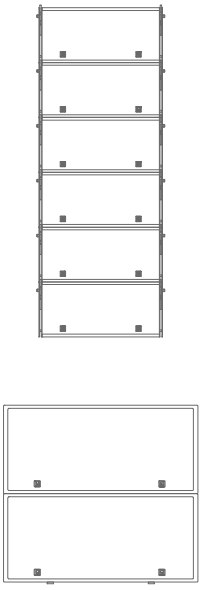
Application

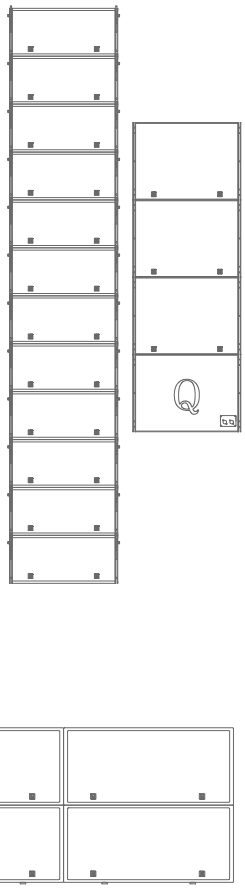
V18 low-frequency system design uses at least 1/group, suspension up to 12/group box multi-configuration, suspension also uses 6 points of lifting mode, using 4mm steel (synthetic width is 18mm), 8mm steel connecting rod, suspension has 6:1 safety factor when suspending 12 speakers. V18 can be integrated with V10/V8 speaker suspension system. V18 ultra-low frequency speaker can be integrated with suspension or ground stacking. It can be used with V10/V8 speaker without adding a converter rack. It provides a fast and simple ground stacking application. The V18 low-frequency loudspeaker system can be installed in straight line, curve or Front Back Front to meet the needs of hanging purposes. V18 low-frequency loudspeaker and V10/V8 full-frequency loudspeaker are designed to enhance the low-frequency response of the system, and have ultra-high efficiency dynamic response information.

The V10/V8 line array is connected to the V18 ultra low frequency speaker
Adjust angle：+6° , +5° , +4° , +3° , +2° , +1° , 0° , -1° , -2° , -3°

V10+V18	V10 + Sub	V10+V18+Sub







TRANSPORTATION ACCESSORIES

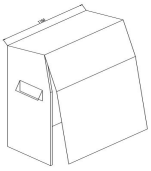
V18-Touring case:

removable front case on wheels (one V18)

V18-Chariot: **chariot for up to 2-3pcs V18**

V18-Chariot Cover: **Protective cover for**

2-3pcs V18 on V18-Chariot



Rigging Frame Accessories

V10 / V8-Hoist connector chain 2t

V10 / V8-U Shackle（3’ 5/8） 4t

Rigging Frame with Extender Beam for V10 / V8 and V18 enclosures

V10 / V8 / V18-Bump

V10 / V8 / V18-Bar with Extender Beam

Rigging Frame Touring Case with

V10 / V8 / V18 Bump x2

Speaker Cable

V10 / V8 4Pin NL4 4 x 4 mm² （50cm）

V10 / V8 4Pin NL4 4 x 4 mm² （15m）

Maximum number of enclosures per Amp / Impedance load

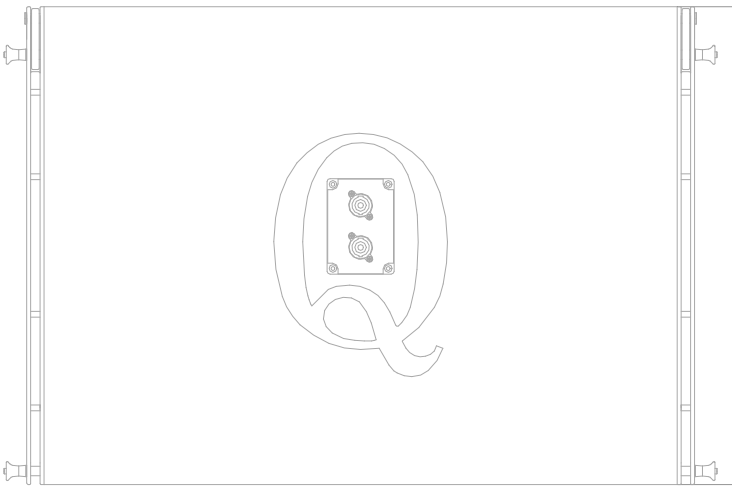
Enclosure	Max enclosure in parallel	Max enclosure per controller
V15	2	2
V12	3	3
V10	3	6
V8	3	6
V18	2	8
V25	1	4
VS28	1	4
VS221	1	4

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

PA-COM 8-Pin 8*4²	**V15**	**V12**
Transducer connectors	A / B = LF +1-1 C / D = MF +2-2 E / F = MF +3-3 G / H = HF +4-4	A / B = LF +1-1 C / D = MF +2-2 E / F = MF +3-3 G / H = HF +4-4
NL4 4-Pin 4*4²	**V10**	**V8**
Transducer connectors	LF = +1-1 HF = +2-2	LF = +1-1 HF = +2-2
NL4 4-Pin 2*4²	**V18**	**V25**
Transducer connectors	LF = +1-1	LF = +1-1
NL4 4-Pin 2*4²	**VS28**	**VS221**
Transducer connectors	LF = +1-1	LF = +1-1

Speaker Connect V18

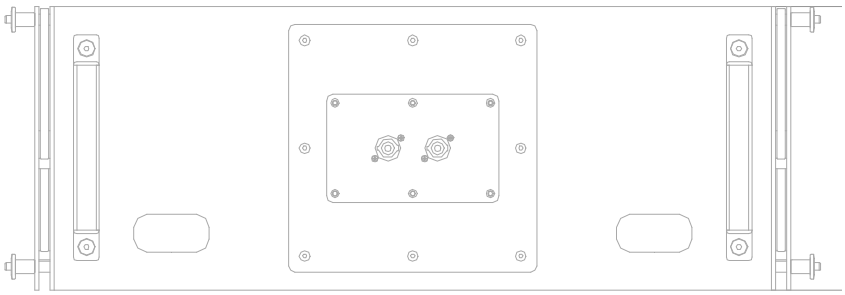
V18 is equipped with two 4-point NL-4 SpeakOn connectors.



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

Speaker Connect V10 / V8

V10 / V8 is equipped with two 4-point NL-4 SpeakOn connectors.



NL-4 SpeakOn 4 points	1+	1-	2+	2-
Transducer connectors	LF+	LF-	HF+	HF-

VDA Rack

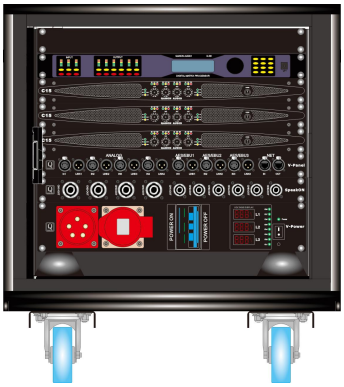
VDA-Rack

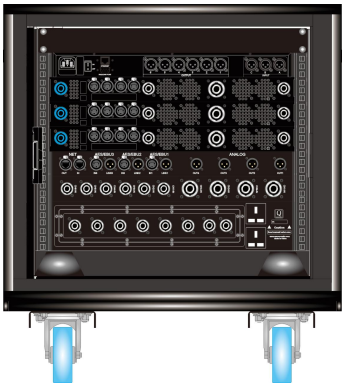
VDA-Rack2

VDA18

C15 AMPLIFIED CONTROLLER with Processor

C15 Rack





ASSOCIATED ENCLOSURES

V15/V12

V10/V8

VS221/VS28/V25

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