

Overview

VLA-221 is a low-frequency extension speaker designed specifically for VLA-210 System and VLA-215 System. It can extend the low-frequency limit of the system to 25Hz, which is very important for EDM or other large-scale performances, allowing the system to obtain additional strong low-frequency energy. Like VLA-132, VLA-221 can be used independently with other systems.

Features

- Compact horn load design
- 145dB high sound pressure level output
- Dual 21-inch ND units, light weight and high efficiency
- Sturdy tongue-and-groove joint technology, strong and durable
- Stacked design for bass directional control

Applications

VLA-221 is a compact high-output sub-woofer. The cabinet is designed with a rectangular shape, a phase reflex design and a precisely calculated aperture design, making the bass strong, rich and powerful.

Apply to

- EDM Rave party
- Live touring
- Nightclub
- Theater
- Theme park program



Description

VLA-221 adopts direct radiation phase reversal design, and the optimized compression phase reversal design effectively reduces the wind noise during operation. The cabinet resonance is predicted and analyzed by computer, and these resonances are reduced by strengthening the structure, making the bass clean and powerful without cabinet sound coloration. The optimized cabinet design and the speaker unit installed at a V-shaped angle not only effectively offset the cabinet vibration, but also make the speaker volume more compact. The long-stroke high-power unit is used, combined with advanced DSP control technology, to effectively control the overload distortion, edge beat and other problems caused by high power. VLA-221 can be matched with VLA-210 System and other line source vertical array full-frequency series through the predicted parameter call of the DSP processor, and the debugging is simple and fast.

The cabinet is made of high-strength "Baltic birch plywood" and uses tongue-and-groove joint technology, making it sturdy and durable. There are handles on both sides of the speaker for transportation, and screw holes for pulley installation are reserved on the back of the speaker for easy transportation and movement. The surface treatment uses a poly-urea spray paint process with better protection and higher wear resistance, which is sturdy, durable and environmentally friendly. The unit structure of the 1.3-inch voice coil and the high-strength NdFeB magnetic circuit enable the VLA-1 to reach a usable frequency response range of 1.3-1.6 Hz-1.6 Hz, a sensitivity of 1.2 dB (@ 1.3 Watt 1.3 M), and an amazing SPL peak output of 1.2 dB.

Nominal Parameters

Components	2 x 21" ND Woofers with 6" V.C.
Profile	Cuboid
Cabinet	18mm/15mm Birch poly-wood
Surface	Water-based or poly-urea painting
Connectors	2 x NL4
Flying hardware	M10 Screw holes
System accessories	Optional wheel plat and canvas cover
Dimension	Height : 584mm
	Wide : 890mm
	Depth : 762mm
Weight	86kg Nett

Performance Parameters

Frequency response (1 Watt @ 1m)	35Hz~250Hz(+/-3dB)
	28 Hz~250Hz(-10dB)
Horizontal directivity (-6dB)	Omni
Vertical directivity (-6dB)	Omni
Power capacity (RMS/Peak)	2400W/9600W
Sensitivity	102dB @1m/1W
Max. SPL	145dB
Nominal impedance	2 x 4 ohms
Cross-over point	Programed by DSP

Dimension and diagram

