

Nexus XL

Key features:

- Single high power 21" transducer
- Five resonant chambers
- Very high efficiency
- Fast transient response

Applications:

- High impact nightclub
- VIP room
- Indoor and outdoor dance events
- Bar, club, lounge



This low frequency enclosure expands upon the five resonant chamber theory, as used in the ever-popular Stasys X (a dual 18" low frequency enclosure serving as the backbone of many Void Acoustics installations around the world). Further refining the design principle has led to previously unimagined levels of performance.

Transient response and articulation were the two main design criteria. The use of a large transducer has provided exceptionally high levels of efficiency and an extended low frequency response, but a high moving mass can also lead to degradation in speed and articulation. Reinforcing materials are woven into the cone for superior strength. A dual-layer coil arrangement has also been deployed to increase both power handling and efficiency, while lowering the total moving mass to that of a transducer with a much smaller shift. Both these measures enable the transient response and delivery required for modern styles of music, yet retain the efficiency and extended low frequency response that only a very large transducer can provide. For lower power handling, the Nexus XL serves as an alternative to the Nexus X and is to be used with the Nexus Q.

Specifications

Frequency Response	30 Hz - 150 Hz \pm 3dB
Efficiency ¹	104 dB 1W/1m
Crossover Points	Hi Pass 30 Hz - 24 dB/oct
Nominal Impedance	8 Ω
Power Handling ²	2000 W AES
Maximum Output ³	135 dB cont; 141 dB peak
Driver Configuration	1 x 21"
Dispersion	Array dependant
Connectors	2 x 4-pole speakON™
Weight	90 kg (198.4 lbs)

¹ Measured in half space ² AES2 - 1984 compliant ³ Calculated

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Architectural specifications

The loudspeaker shall be an active bandpass sub bass system consisting of a single high power 21" (533.4 mm), long excursion, low frequency (LF) transducers mounted in a rectangular enclosure.

The low frequency transducers shall be constructed on a cast aluminium frame, with a treated paper cone, dual 152.4 (6") voice coil, wound with copper wires on a high quality voice coil former and a neodymium magnet for high power handling and long-term reliability.

Performance specifications for a typical production unit shall be as follows: the usable bandwidth shall be 30 Hz to 150 Hz (± 3 dB) and have a maximum SPL of 141 dB peak (135 dB continuous) measured at 1 m using IEC268-5 pink noise. Power handling shall be 2000 W AES at a rated impedance of 8 Ω and a pressure sensitivity of 104

dB measured at 1W/1m. The system shall be powered by its own dedicated power amplification module with DSP management. The wiring connection shall be via two Neutrik speakON™ NL4 (one for input and one for loop-out to another speaker), to allow for pre-wiring of the connector before installation.

The enclosure shall be constructed from a 18 mm multi-laminate birch plywood finished in a textured polyurea and shall contain fixture points for a pressed steel, powder coated grille to protect the horn path from object ingress. The cabinet shall have eight handles (four per side) for efficient manual handling. External dimensions of (H) 754 mm x (W) 738 mm x (D) 860 mm (29.7" x 29" x 33.9"). Weight shall be 90 kg (198.4 lbs).

The loudspeaker shall be the Void Acoustics Nexus XL.

