

# Nexus Q

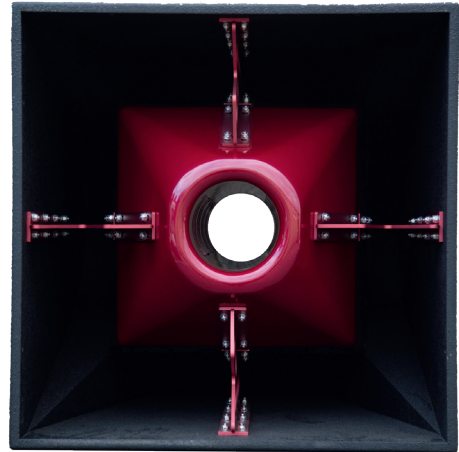
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## Key features:

- Four high power 12" transducers
- Front loaded horn
- High efficiency
- Newly developed 'pressure gradient' arrangement

## Applications:

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



As part of the Nexus LF system, the Nexus Q delivers the upper bass frequencies via a new enclosure design. The four high power 12" drivers use a front loaded horn to achieve high efficiency and a rear port with a newly developed 'pressure gradient' arrangement.

This configuration is far more beneficial than previous loading techniques and results in an enclosure with unparalleled output, definition, and the total elimination of colouration from any turbulent or mechanical port noise. Dual Neutrik speakON™ NL4s are provided for driver connections.

## Specifications

Frequency Response	60 Hz - 150 Hz $\pm 3$ dB
Efficiency <sup>1</sup>	110 dB 1W/1m
Crossover Points	70 Hz
Nominal Impedance	2 x 4 $\Omega$
Power Handling <sup>2</sup>	2 x 2000 W AES
Maximum Output <sup>3</sup>	145 dB cont, 151 dB peak
Driver Configuration	4 x 12"
Dispersion	Array dependant
Connectors	2 x 4-pole SpeakON™
Weight	130 kg (286.6 lbs)

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

# Nexus Q

## Architectural specifications

The loudspeaker shall be an active manifold horn loaded sub system consisting of four high power 12" (300 mm), long excursion, low frequency (LF) transducers mounted in a square enclosure with a rear port in a newly developed pressure gradient arrangement.

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

Performance specifications for a typical production unit shall be as follows: the usable bandwidth shall be 60 Hz to 150 Hz ( $\pm 3$  dB) and shall have a maximum SPL of 151 dB peak (145 dB continuous) measured at 1 m using IEC268-5 pink noise. Power handling shall be 2 x 2000 W AES at a rated impedance of 2 x 4  $\Omega$ . Pressure sensitivity shall be 110 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 textured polyurea and shall contain fixture points for a pressed steel powder coated grille to protect the front chamber from object ingress. It shall have ten handles (four per side and two on the back face) for efficient manual handling - the same as external bracing from machined aluminium, which is bolted into the horn mouth using M8 stainless steel bolts.

The chamber of the loudspeaker shall incorporate a revolutionary, view through, shot gun port for better control over directivity and to reduce port noise at the same time as it also has cooling purposes, which shall be constructed from glass reinforced plastic in a trapezoidal shape with a smooth cellulose finish of any RAL colour. External dimensions of (H) 754 mm x (W) 738 mm x (D) 860 mm (29.7" x 29" x 33.9"). Weight shall be 130 kg (286.6 lbs).

The loudspeaker shall be the Void Acoustics Nexus Q.

