

Nexus 6

Key features:

- Visually striking appearance for style-led environments
- Virtual Arc technology forms common acoustic centre
- Unified dispersion, phase and timing
- Twenty discrete proprietary drive units
- Stack mounted or proprietary suspension system
- Fibreglass composite construction
- Standard red finish, optional custom colours
- Smooth cellulose finish



Aimed at the larger venue, the radical styling of the Nexus 6 is born from the innovative internal layout of its transducers. The four-way Nexus 6 consists of no less than 20 high power drivers, housed in a sculpted fibreglass enclosure that can be ground stacked on low frequency enclosures, or flown independently using the optional proprietary Void flying system.

Virtual Arc technology is implemented on every component to form a common acoustic centre, or virtual point source that exists rearwards of the array. This approach overcomes all the disadvantages that compromise a traditional array of multiple sound sources emitting from different locations.

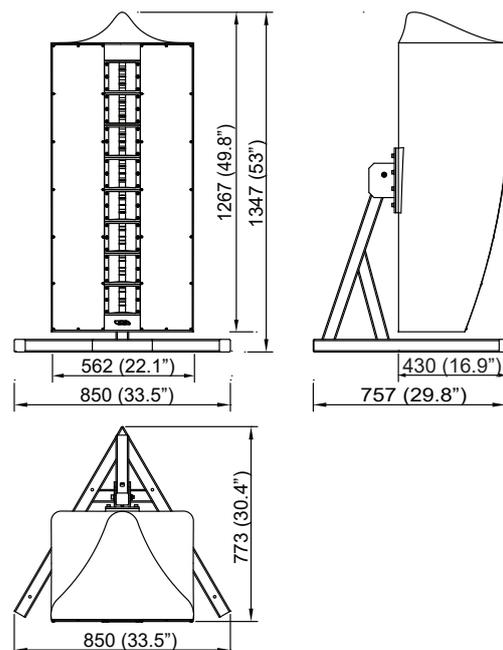
Dispersion, phase, coherency and timing are all controlled and unified, due to the common acoustic feed point and multi-channel access. Virtual Arc technology ensures that the same sound is experienced by all, regardless of where they are standing, due to its wide and controlled dispersion. Total summation of all the components in each passband can also take place within the Nexus 6, allowing for much higher efficiency, greater output and improved reliability due to reduced component stress.

Whether placed on low frequency enclosures to form a dance stack or flown independently, the Nexus 6 brings the performance and styling of the future to the here and now.

Specifications

Frequency Response	78 Hz - 21 kHz ± 3 dB
Efficiency ¹	LF: 105 dB 1W/1m, HF: 110 dB 1W/1m
Crossover Points	1.6 kHz active
Nominal Impedance	LF: 2 x 5.3 Ω , HF: 2 x 4 Ω
Power Handling ²	LF: 2 x 1350 W AES, HF: 2 x 320 W AES
Maximum Output ³	137 dB cont, 140 dB peak
Driver Configuration	12 x 6.5" LF, 8 x 1" HF compression driver
Dispersion	110°H x 50°V
Connectors	1 x 8-pole speakON™ NL8
Weight	75.5 kg (166.5 lbs)
Enclosure	Fibreglass composite
Rigging	Stack mounted or proprietary suspension system
Finish	Smooth cellulose

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



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Architectural specifications

The loudspeaker shall be an active two way bi-amped system consisting of 12 high power 6.5" (165.1 mm) direct radiating low frequency (LF) transducers, and eight 1" (25.4 mm) high frequency (HF) compression drivers, each mounted on a dedicated waveguide.

With 20 discrete proprietary drive units, Virtual Arc technology is implemented on every component to form a common virtual point source rearwards of the array, resulting in a better and more controlled directivity, coherence, phase and time alignment between all components.

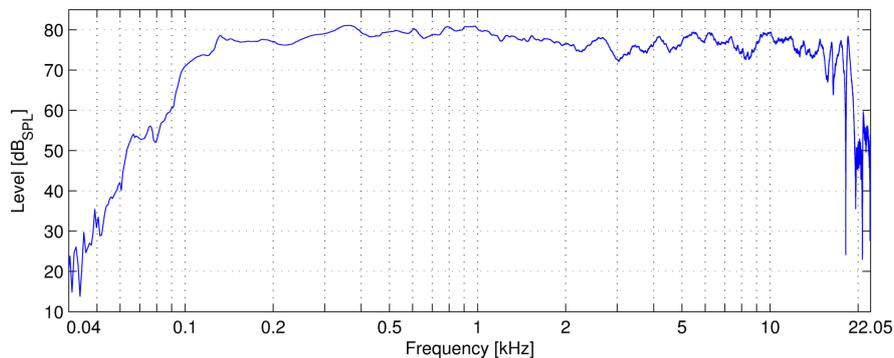
The LF transducers shall be constructed on a cast aluminium frame, with a treated paper cone, 44 mm (1.7") voice coil, wound with copper wires on a high quality voice coil former and neodymium magnets, for high power handling and long term-reliability. The HF transducers shall project their sound through a high precision constant directivity waveguide, with a 76.2 mm (3") baffle diameter, to achieve directivity pattern control between the different drivers with no cancellations and low distortion.

Performance specifications for a typical production

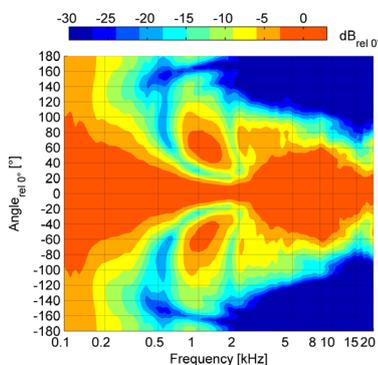
unit shall be as follows: the usable on-axis bandwidth shall be 78 Hz to 21 kHz (± 3 dB) and shall average 50° directivity pattern on the vertical axis and 110° on the horizontal one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; and a maximum SPL of 140 dB peak measured at 1 m using IEC268-5 pink noise. Power handling shall be 2 x 1350 W AES for the LF section at a rated impedance of 2 x 5.3 Ω and 2 x 320 W AES for the HF section at a rated impedance 2 x 4 Ω . The system shall be powered by its own dedicated power amplification modules with DSP management, from which crossover points will also be set, with the wiring connection via one Neutrik speakON™ NL8.

The enclosure shall be of a special fibreglass composite with a smooth cellulose finish of any RAL colour. The system shall be stack mounted with a dedicated stand or can also be suspended with a load tested suspension system. The external dimensions of the enclosure shall be (W) 562 mm x (H) 1267 mm x (D) 430 mm (22.1" x 49.8" x 16.9"). Weight shall be 75.5 kg (166.5 lbs) including stand.

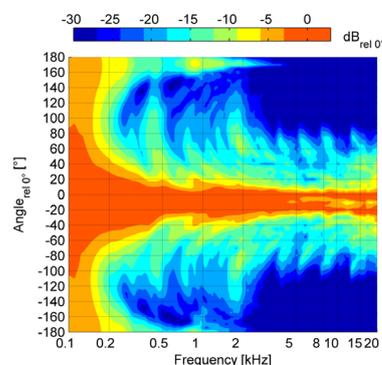
The loudspeaker shall be the Void Acoustics Nexus 6.



Frequency response (Anechoic measurement)



Horizontal directivity isobars



Vertical directivity isobars