



GEO SUB

The unconventional GEO SUB displays exceptional forward gain across three octaves eliminating many problems common to omnidirectional LF. A high-efficiency, front-loaded 18" driver delivers 140-143dB Peak SPL, while twin 12" side-firing transducers help create cardioid LF pattern control via precise rear pattern cancellation.

NX242 TDcontrollers, fitted with the required NXtension Expander Boards, employ advanced digital filter sets with new, proprietary algorithms, to optimize phase and extend GEO SUB's cardioid LF control from midbass to subbass. The Over/Under GEOD-BUMPER allows as many as 16x GEO SUBs to be flown together and presents multiple stage-stackable options.

Advanced Cardioid Bass and SubBass module

Optimized Front-to-Rear Phase Adjustment and Maximized LF and SubBass Efficiency

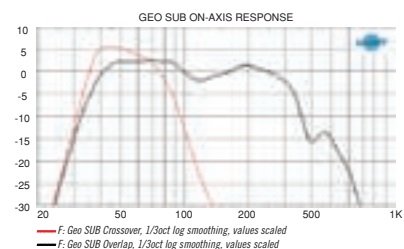
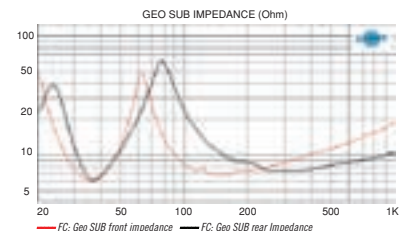
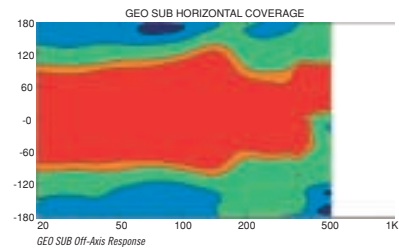
Aerodynamic Profiled Vents with 20dB Vent Noise Reduction and improved Linearity at high SPL

X-Over Mode from 75Hz to 150Hz when GEO SUBs are stacked. Overlap Mode up to 600Hz when GEO SUBs are flown with any GEO system

Arrays with GEO D10 or flies independently as part of GEO S and GEO T Systems

EtherSound™ (Network) Controllable

Bottom-Line Engineering for Theatre to Arena-Sized Fixed & Mobile Applications



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NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains.

NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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GEO SUB PRODUCT FEATURES

Components	1x 18" (46cm) long excursion neodymium 8Ω driver 2x 12" (30cm) neodymium 16Ω drivers
Height x Width x Depth	552.5 x 744 x 1131mm (21 1/4" x 29 1/3" x 44 1/2")
Shape	10° Trapezoid
Weight	86Kg (189.6lbs)
Connectors	2 x NL4MP SPEAKON 4 pole (In & Through).
Construction	Baltic Birch ply finish with structured black coating.
Front Finish	Moulded Black Metal Grill.
Flying Points	Integral flying system. Intercabinet angle adjustments = 0.2°, 0.315°, 0.5°, 0.8°, 1.25°, 2.0°, 3.15°, 5, 6.3°, 8.0°, 10° (logarithmic steps).

SYSTEM SPECIFICATIONS GEO SUB with NX242 TDcontroller

Frequency response	@-3dB [a] 38Hz – 300Hz
Usable range	@-6dB [a] 35Hz – 500Hz
Sensitivity 1W	@ 1m [b] 103dB SPL Nominal
Peak SPL	@ 1m [b] 140-143dB Peak
Dispersion [c]	Cardioid pattern over the entire useable bandwidth (two channels of the NX242 are used for the process).
Directivity Index [c]	Q = 4.3 & DI = 5.3dB over the entire useable bandwidth.
Crossover frequency	X-Over Mode = 75Hz active / Overlap Mode = 300Hz through NX242 Digital TDcontroller.
Nominal impedance	2 x 8Ω.
Recommended amplifiers	2 amplifier channels are required for directional operation, each rated at 1000 to 2000Watts into 8Ω per channel.

SYSTEM OPERATION

Electronic Controller	The NX242 Digital TDcontroller presets are precisely matched to the GEO SUB and include sophisticated protection systems. Using the GEO SUB without a properly connected NX242 Digital TDcontroller will result in poor sound quality and can damage components.
Speaker Cables	The front loudspeaker of the GEO SUB is wired 2+ & 2- while the rear loudspeakers are wired in parallel 1- & 1+. The GEO SUB must use separate cables from the main system.
Rigging System	Please refer to the user manual before any operation.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves and data: anechoic far field above 400Hz, half-space anechoic below 400Hz.

Usable range data: frequency response capability with TD crossover slopes removed.

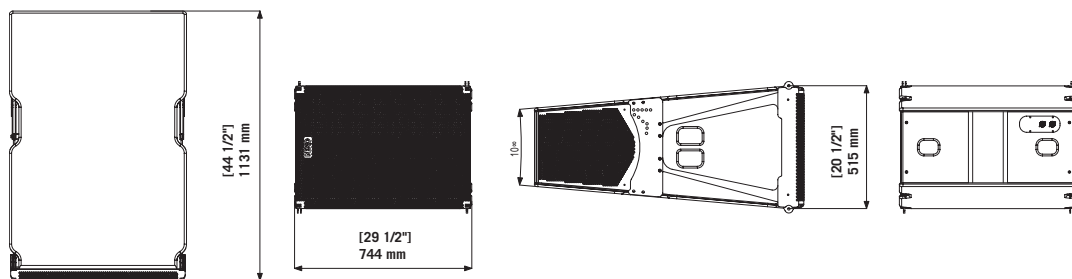
[b] Sensitivity & peak SPL: will depend on spectral distribution. Measured with band limited pink noise.

Refers to the specified +/- 3dB range. Data are for speaker + processor + recommended amplifier combinations.

[c] Directivity curves and data: 1/3 octave smoothed frequency response, normalized to on-axis response.

Data obtained by computer processing of off-axis response curves.

[d] Please refer to the user manual.



LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.

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