GEO D10 Advantages

- Coherent Wave Propagation from NEXO’s Advanced GEO Hyperbolic Wavesource
- Advanced Constant Velocity Profile Output from 5° Wavefront GEO Waveguide
- Compression Mode Rigging System with Logarithmic Angles from 0.2° to 10°
- GeoSoft2 Configurable, EtherSound™ (Network) Controllable and GeoSite (Laser) Aimable System Deployment
- Legendary NEXO Sonic Innovation in an Bottom-Line Engineering for Theatre to Arena-Sized Fixed & Mobile Applications

NEXO’s 3-way GEO D10 vertical array module achieves exceptional MF-LF output (105dB SPL nominal sensitivity-TW @1m) from a single 12” loudspeaker coupled to a proprietary Directivity Phase Device (DPD).

GEO D10 vertical MF/HF pattern control is array dependent, horizontal MF/HF coverage is configurable at 80° or 120°. NEXO’s digital, EtherSound-enabled NX242 TD controller maximizes MF/HF coherency while twin 8” side-firing transducers create exceptional cardioid LF coverage.

An integral flying system optimizes venuespecific array design from precise, logarithmic inter-cabinet angle adjustments as configured by GEOsoft2 array software. The Over/Under GEOBUMPER maximizes rigging utility, allowing up to 24x GEO Ds to fly together, or stagestacking of GEO D10 with GEO SUB and CD18.
GEO D10

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GEO D10 PRODUCT FEATURES

Components:
HF: 1x 3" voice coil, 1.4" throat 16Ω driver on a 5" hyperboloid reflective wavesource.
MF/LF (front-firing): 1x 12" (30cm) high excursion neodymium 16Ω driver.
LF (side-firing): 2x 8" (20cm) neodymium 16Ω drivers in series.

Height x Width x Depth:
380 x 744 x 750mm (15" x 29 1/3" x 29.5") including array assembly system.
Rigging access to axis height 344mm (13.5")

Shape: 10° Trapezoid.

Weight net: 5.7kg (12.6lbs) including array assembly system.

Connectors:
1x AMPHENOL EP6 6-pole socket In; 1x AMPHENOL EP6 6-pole socket Through.

Construction:
Baltic Birch ply with structured black coating.

Front finish: Molded Dark Grey Metal Grill.

Flying points: Integral flying system.

System Operation:
Interabinet angle adjustments = 0.2°, 0.315°, 0.5°, 0.8°, 1.25°, 2.0°, 3.15°, 5°, 6.3°, 8.0°, 10.0° (logarithmic steps).

System Specifications:
**GEO D10 with NX242 TDCONTROLLER**

Frequency response:
60Hz – 19kHz ±3dB
Usable range 0dB-6dB
Sensitivity 1W @ 1m
105dB SPL nominal (103dB SPL wideband)

Dispersion:
Vertical plane: Configuration dependent
Horizontal plane: Configurable 80°/120° Low Frequency; Cardioid
Crossover frequency LF-MF: 300Hz Active or Passive; MF-HF: 1.1kHz Passive or Active (internally configurable).

Recommended amplifiers:
HF: 875 to 1550Watts into 4Ω; MF/LF front: 1750 to 3100Watts into 4Ω;
MF/LF front: 3300 to 6000Watts into 2Ω; LF rear section: 1750 to 3100Watts into 4Ω;
4x GEO D10 in parallel in LF rear: 2000 to 3600Watts into 4Ω;
6x GEO D10 in parallel in LF rear: 3300 to 6000Watts into 2Ω.

**SHIPPING & ORDERING**

Packaging:
GEO D are packaged individually or in groups of 3x in GEO D dollies. Order as GEO D10.

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 200Hz, half-space below 200Hz.
[c] Frequency response capability with TD crossover slopes removed.
[d] Configuration dependent.

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.

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.
The unconventional GEO SUB displays exceptional forward gain across three octaves eliminating many problems common to omni-directional 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 Tcontrollers, 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.
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### GEO SUB PRODUCT FEATURES

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height x Width x Depth</td>
<td>552.5 x 744 x 1131 mm (21 1/4” x 29 1/3” x 44 1/2”)</td>
</tr>
<tr>
<td>Shape</td>
<td>10° Trapezoid</td>
</tr>
<tr>
<td>Weight</td>
<td>88 Kg (189.6lbs)</td>
</tr>
<tr>
<td>Connectors</td>
<td>2 x NL4MP SPEAKON 4 pole (In &amp; Through).</td>
</tr>
<tr>
<td>Construction</td>
<td>Baltic Birch ply finish with structured black coating.</td>
</tr>
<tr>
<td>Front Finish</td>
<td>Moulded Black Metal Grill.</td>
</tr>
<tr>
<td>Flying Points</td>
<td>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).</td>
</tr>
</tbody>
</table>

### SYSTEM SPECIFICATIONS GEO SUB with NX242 TDCcontroller

<table>
<thead>
<tr>
<th>Frequency response (@-3dB [a])</th>
<th>38Hz – 300Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable range (@-6dB [a])</td>
<td>35Hz – 500Hz</td>
</tr>
<tr>
<td>Sensitivity 1W @ 1m [b]</td>
<td>103dB SPL Nominal</td>
</tr>
<tr>
<td>Peak SPL @ 1m [b]</td>
<td>140-143dB Peak</td>
</tr>
<tr>
<td>Dispersion [c]</td>
<td>Cardioid pattern over the entire usable bandwidth</td>
</tr>
<tr>
<td>Directivity Index [c]</td>
<td>Q = 4.3 &amp; DI = 5.3dB over the entire usable bandwidth</td>
</tr>
<tr>
<td>Crossover frequency</td>
<td>X-Over Mode = 75Hz active / Overlap Mode = 300Hz</td>
</tr>
<tr>
<td>Nominal impedance [d]</td>
<td>2 x 8Ω</td>
</tr>
<tr>
<td>Recommended amplifiers</td>
<td>2 amplifier channels are required for directional operation, each rated at 1000 to 2000Watts into 8Ω per channel.</td>
</tr>
</tbody>
</table>

### SYSTEM OPERATION

**Electronic Controller**

The NX242 Digital TDCcontroller presets are precisely matched to the GEO SUB and include sophisticated protection systems. Using the GEO SUB without a properly connected NX242 Digital TDCcontroller 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.

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


[c] Cardioid pattern over the entire usable bandwidth

[d] Please refer to the user manual.

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