The CD18 uses an innovative approach to the control of long wavelength low frequency acoustic energy. Sophisticated signal processing algorithms, individually applied to each of the dual-ported 18 inch woofers, produce substantial forward gain and more than 12 dB attenuation at the rear. The CD18 puts subbass energy where it is needed and keeps it away from open microphones and reverberant surfaces.

The GEO T & S Series are the result of a three year intensive R&D project that has produced three fundamental patent applications in loudspeaker technology. The performance advantages produced by GEO innovations are easily measurable and clearly audible. With two full range tangent array modules and a hypercardioid subbass, the T Series offers total flexibility to design and deploy horizontal or vertical tangent arrays with coherent output. From high-definition musical reproduction to high output paging systems, GEO Technology delivers optimal performance in venues of all shapes and sizes.
CD18 Controlled Directivity Subwoofer

**Impedance (Ohms)**

- **20**
- **100**
- **125**
- **4**
- **8**
- **16**
- **32**
- **64**

**On Axis Response (dB)**

- **20**
- **100**
- **125**

- **dB vs. frequency on axis. Actual results depend on NX241 settings.**

**Q & DI**

- **20**
- **100**
- **125**

- **Directivity Index (left scale, dB) and Q (right scale) in supercardioid (light) and cardioid (dark) modes.**

**Coverage Angle (Degree)**

- **Horizontal (dark) and vertical (light) coverage angles between -6 dB points: cardioid mode.**

- **Horizontal (dark) and vertical (light) coverage angles between -6 dB points: supercardioid mode.**

All measurements made with dedicated NX program. Measurements conditions: far field, half space below 400Hz; anechoic above 400Hz. Directivity Index and factor: computer synthesized from coverage. Coverage: 1/3 octave band synthesized from FFT measurements.
Horizontal (dark) and vertical (light) polar plots: cardioid mode. 3 dB/division.

Horizontal (dark) and vertical (light) polar plots: supercardioid mode. 3 dB/division.
PRODUCT FEATURES

Components 2 x 18” (46cm) long excursion neodymium 8 Ohm drivers
Height x Width x Depth 750 x 1200 x 750 mm (29 1/2” x 47 1/4” x 29 1/2”)
Shape Rectangular
Weight: Net 116 kg (256 lbs)
Connectors 2 x NL4MP SPEAKON 4 pole (In & Through)
Construction Baltic birch ply finish with structured black coating. Dark grey carpet finish also available.
Flying points Integral flying system.

SYSTEM SPECIFICATIONS CD18 with NX241 TDCcontroller

Frequency Response @-3dB [a] 32 Hz – 80 Hz
Usable Range @-6dB [a] 29 Hz – 180 Hz
Sensitivity 1W @ 1m [b] 105 dB SPL Nominal
Peak SPL @ 1m [b] 145 dB Peak
Dispersion [c] Cardioid or supercardioid pattern over the entire useable bandwidth depending on the NX241 Digital TDCcontroller set up. (two channels of the NX241 are used for the process).
Directivity Index [c] Q=4.3 | DI=6.3 dB and Q=5.3 | DI=7.2 dB over the entire useable bandwidth for respectively cardioid and supercardioid mode.
Crossover Frequency 80 Hz active through NX241 Digital TDCcontroller.
Nominal Impedance 2 x 8 Ohms
Recommended Amplifiers 2 amplifier channels are required for cardioid operation, each rated at 1500 to 3000 Watts into 4 ohms per channel. Up to 2 complete CD18s per channel may be connected to a two channels amplifier.

SYSTEM OPERATION

Electronic Controller The NX241 Digital TDCcontroller presets are precisely matched to the CD18 and include sophisticated protection systems. Using CD18 sub-bass without a properly connected NX241 Digital TDCcontroller will result in poor sound quality and can damage components.
Speaker Cables The front loudspeaker of the CD18 is wired 2+ & 2- while the rear loudspeaker is wired 1- & 1+. The CD18 must use separate cables to the main system.
Rigging System [d] Please refer to the user manual before any operation.

SHIPPING & ORDERING

Packaging CD18s are packaged individually. Order as CD18-C (finished in grey carpeting) or CD18-P (finished in black structured coating).
Shipping Weight & Volume 1x CD18 = 131.5 kg (263 lbs), .98 cu m (34.4 cu ft)

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 400 Hz, half-space anechoic below 400 Hz. 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 +/- 3 dB 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.

NEXO is a world leader in the design and manufacture of loudspeaker systems for sound reinforcement. Since 1979 we have pursued practical solutions by addressing problems at fundamental levels. Each new design is generated using proprietary computer simulation software. Extensive modeling and simulation of critical parameters enables us to translate conceptual breakthroughs into significant cost and performance gains.

Nexo’s comprehensive line includes the breakthrough GEO Series, based on fundamental wave source patents, the compact, versatile PS Series, the world standard Alpha System and the Alpha® Series. Loudspeakers, analogue and digital control electronics and amplification are all designed to deliver Sonic Innovation That Works.

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