

# Geo T 4805



GEO T4805 rear view



## T4805 TANGENT ARRAY MODULE

*A compact, extremely high-output array module, the T4805 is the centerpiece to GEO T vertical tangent array system design. The 5° Hyperboloid Reflective Wavesource is optimized so that multiple GEO loudspeakers coherently radiate tangent wavefronts, allowing these curved vertical arrays to deliver consistent front-to-rear SPL across all coverage areas. Advanced DSP algorithms, applied by the NX242 TDcontroller, provide GEO T systems with unrivalled midbass directional control.*

Optimized for high power vertical tangent arrays: T4805 is main array/long throw element.

0.01° precision logarithmic array assembly system is engineered to maintain adequate safety factors when supporting curved vertical arrays.

T4805 uses active DSP-driven front and rear-firing drivers, dipolar LF sections produce a cardioid pattern from 70Hz to 250Hz.

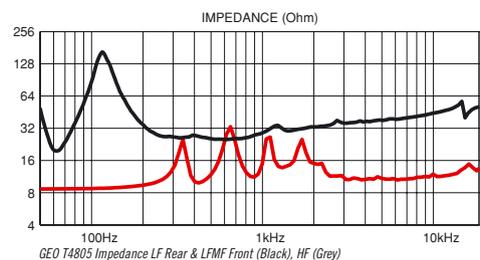
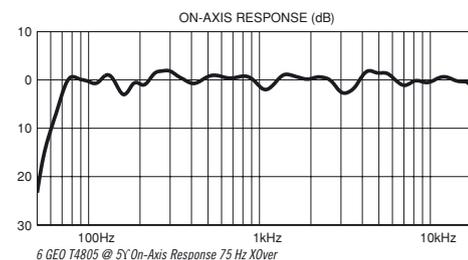
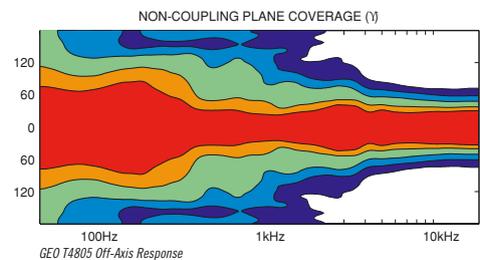
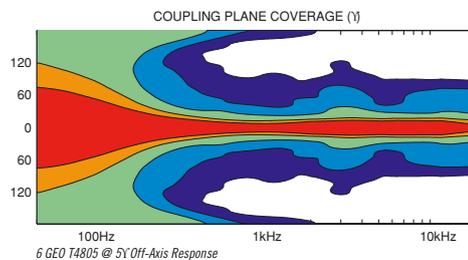
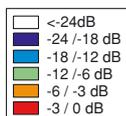
High power, long excursion neodymium 8" woofers deliver full range output.

Patent-pending Hyperboloid Reflective Wavesources project tangent wavefronts for coherent output and flexible coverage.

Patent-pending Configurable Directivity Flange sets horizontal dispersion to 90° for the T4805.

Patent-pending Directivity Phase Device allows line source coupling throughout the midrange.

GEOsoft2 is a proprietary software application that simplifies optimization and deployment of NEXO GEO vertical arrays.





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 T4805 PRODUCT FEATURES

Components	HF: 1 x 3" voice coil, 1.4" throat neodymium 16Ω driver on a Hyperboloid Reflective Wavesource. LF front section: 2 x 8" (20cm) neodymium hi-flux 16Ω drivers in series. LF back section: 2 x 8" (20cm) neodymium hi-flux 16Ω drivers in series.
Height x Width x Depth	Enclosure: 250 x 750 x 627mm (9 7/8" x 29 9/16" x 24 11/16") Array Module: 286 x 903 x 627mm (11 1/4" x 35 1/2" x 24 11/16")
Shape	5° Trapezoid.
Weight	52kg(114.6lbs) net, including flying system.
Connectors	1x AMPHENOL 6-pole EP6 socket In, 1 x AMPHENOL AP6 6 pole cable + connector Through.
Construction	Baltic birch ply finish with structured black coating for the main structure. Metal box for the rear section with dark grey coating.
Front Finish	Injected polyurethane flange with metallic grey coating.
Flying Points	Integral flying system. Intercabinet angle adjustments = 0.125° to 5° (logarithmic steps).

#### SYSTEM SPECIFICATIONS GEO T4805 with NX242 TDcontroller

Frequency Response [a]	67Hz – 19kHz ± 3dB
Usable Range @-6dB [a]	60Hz – 20kHz
Sensitivity 1W @ 1m [b]	109dB SPL nominal – 107dB SPL wideband
Peak SPL @ 1m [b]	Configuration dependent [d].
Dispersion [c]	Coupling plane: not usable alone. Configuration dependent [d]. Non-coupling plane: 90°.
Crossover Frequencies	250Hz & 1.3kHz active
Nominal Impedance	LF rear: 32Ω - MF/LF front: 32Ω - HF: 16Ω
Recommended Amplifiers HF:	3000Watts into ~3Ω/6 cabinets.
MF/LF (front section):	6000Watts bridged mono into ~6Ω/6 cabinets.
LF (rear section):	6000Watts bridged mono into ~6Ω/6 cabinets.

#### SYSTEM OPERATION

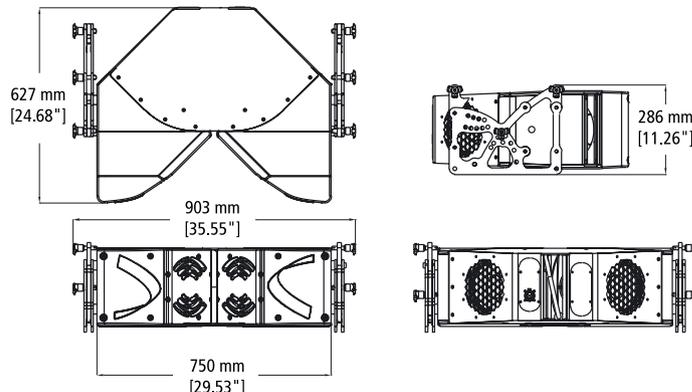
Electronic Controller	The NX242 Digital TDcontroller presets are precisely matched to the GEO T Series cabinets and include sophisticated protection systems. Using GEO T Series cabinets without properly-connected NX242 Digital TDcontroller will result in poor sound quality and can damage components.
Dispersion Configuration	The CDD is configured for 90° dispersion in the non-coupling plane.
Array Design	Via GEOSoft compiled Matlab application or EASE/CATT .dll (latest version available at www.nexo-sa.com).
Subbass	CD18 Supercardioid SubBass (requires two NX242 outputs and two amplifier channels).
Speaker Cables	LF rear: 1(-)/2(+) - LF/MF front: 3(-)/4(+) - HF: 5(-)/6(+).
Rigging System	Please refer to the GEO user manual before any operation.

#### SHIPPING & ORDERING

Packaging	T4805s are packaged individually or in groups of three in NEXO GEO T flight case. Order as GEO T4805 (includes 4x BLGEOT12-30 quick release pins).
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Shipping Weight & Volume 1x T4805 = 53.5kg(117.9 lbs), 0.15 cu m (5.3 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 300Hz, half-space below 300Hz. [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 offaxis response curves. [d] Please refer to the GEO T User Manual. Usable range data: frequency response capability with TD crossover slopes removed.



#### 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 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 use 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.