

α^e

Alpha^e Series



ALPHA E-F FULL RANGE LOUDSPEAKER

The AlphaE-F provides high power, full-range audio reproduction via a composite curve, folded horn loaded 18" LF driver, an exponential horn loaded 10" MF driver and a constant directivity horn loaded 3" HF driver giving 75° x 30° dispersion. Operable 2-way active with passive HF crossover for cost-effective system designs or 3-way active for ultimate performance and control, the AlphaE-F has a frequency response of 39Hz-19kHz. The AlphaE-F delivers outstanding performance as a compact, self-contained system or a flexible near or side-fill supplement to the ALPHA System.

The AlphaE Series is an extension of NEXO's acclaimed ALPHA System; modular, compact, high power loudspeakers tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, AlphaE Series components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

High power full range system (140dB peak SPL @ 1m) with horn loaded 18" LF, 10" MF and 3" HF components.

Medium Q, 75° x 30° dispersion, frequency response 40Hz - 19kHz.

Configurable for active 2-way with a passive HF crossover or active 3-way operation with NX242 Digital TDcontroller ensures reliable, linear operation.

Baltic birch cabinet and high performance honeycomb composite construction.

Available in dark grey carpet covering or textured black paint.

Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.

Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.



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DATA SHEET

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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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PRODUCT FEATURES

Components	LF: 1x 18" (46 cm) long excursion 6Ω driver MF: 1x 10" (25 cm) 8Ω 3" voice coil driver + Dual Ring Phase Plug, Composite Horns HF: 1x 3" titanium diaphragm ceramic driver + Coaxial Mount Waveguide
Height x Width x Depth	1200 x 689 x 754mm (47 1/4" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 98kg(209lbs) With wheelboard: 105kg(231lbs)
Connectors	2x NL8MP 8-pole SPEAKON (In & Loop Thru) Passive: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF/HF), 4+ & 4- (NC) Active: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON (to B1-18 & S2) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.

SYSTEM SPECIFICATIONS AlphaE-F with NX242 Digital TDcontroller

Frequency Response [a]	40Hz – 19kHz ±3dB
Usable Range @-6dB [a]	38Hz – 20kHz ±6dB
Sensitivity 1W @ 1m [b]	107dB SPL Nominal
Nominal Peak SPL @ 1m [b]	LF: 142dB Peak, MF/HF: 140dB Peak
Nominal Impedence	LF: 6Ω (4.7 min) MF/HF: 8Ω (7.5 min)
Recommended Amplifiers	900 to 1400Watts LF into 6Ω, Passive MF/HF: 700 to 1000Watts; Active: 500 to 700Watts MF, 200 to 300Watts HF into 8Ω

SYSTEM OPERATION

Electronic Controller	The AlphaE-F Loudspeaker must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The AlphaE-F Loudspeaker can be used with or without the optional ALPHA S2 SubBass. Active three or four-way operation with the S2 is included in the NX242.

SHIPPING & ORDERING

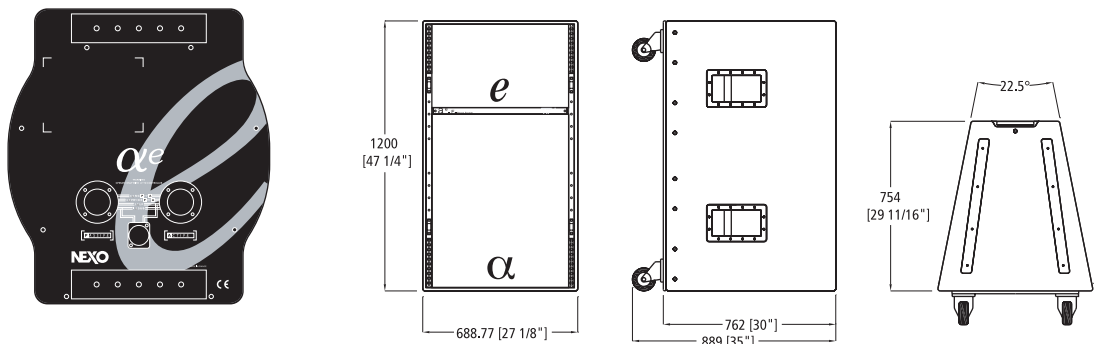
Ordering	AlphaE-F carpet finished (without wheelboard) = Ref: ALEF-C. AlphaE-F painted (without wheelboard) = Ref: ALEF-P.
Packaging	AlphaE-F is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Wheelboard= Ref: AL.WB2.

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

[a] Response curves & data : Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.

[b] Sensitivity & Peak SPL data : 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 & data: 1/3 octave smoothed frequency response, normalised to On-Axis response. Data obtained by computer processing of off axis response curves.



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.