The AlphaE B1-18 is an advanced high power Bass module that can be stacked or flown together in arrays with Alpha M3, M8 and S2 and AlphaE- M cabinets. The AlphaE B1-18 uses one NEXO specified high power 18” LF driver on an innovative internal flare component manufactured of rigid honeycomb composites. This high efficiency design delivers extremely low distortion, coherent bass output from 40Hz to 230Hz. The AlphaE B1-18 is fully capable of operating without the S2 SubBass in applications where extreme LF performance is not required.

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.
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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/replace 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.

ALPHA E B1-18 PRODUCT FEATURES

Components: 1x 18” (46cm) 6Ω long excursion driver. Folded horn, composite curve
Height x Width x Depth: 800 x 689 x 754mm (31 1/2” x 27 1/8” x 29 11/16”)
Shape: 22.5° trapezoid
Weight: Net: 70kg (155lbs) With wheelboard: 79kg (175lbs)
Connectors: 2x NL4MP 4-pole SPEAKON (In & Loop Thru) Wiring: 1+ & 1- (HLF), 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.
Fittings: Handles: 2 Metal Bar Handles
Front finish: Acoustic foam on perforated steel grille (77% transparent)
Flying Points & System: Crossbow flying system cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links.
Fixed Installation: Crossbow flying tracks can also receive standard aircraft fittings.

SYSTEM SPECIFICATIONS

Frequency Response [a] 40Hz – 230Hz ±3dB
Usable Range @-6dB [a] 38Hz – 600Hz
Sensitivity 1W @ 1m [b] 107dB SPL Nominal
Nominal Peak SPL @ 1m [b] 142dB Peak
Nominal Impedance: 6Ω (4.7 min)
Recommended Amplifiers: 900 to 1400Watts into 6Ω

SYSTEM OPERATION

Electronic Controller: The AlphaE B1-18 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 B1-18 Bass can be used with or without the optional Alpha S2 SubBass. Active four-way operation with the S2 is included in the NX242.

ORDERING & PAYMENT

Ordering: AlphaE B1-18 carpet finished and ready to fly (without wheelboard) = Ref: AL.B118CF. AlphaE B1-18 painted and ready to fly (without wheelboard) = Ref: AL.B118-PF.
Packaging: AlphaE B1-18 is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume: Packaging varies according to carpet or paint finish & quantity ordered.
Accessories: Please refer to your NEXO agent.

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 200 Hz, half-space anechoic below 200 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.
ALPHA E- M Advantages

- High power Mid/Hi module (140dB peak SPL @ 1m) with horn loaded 10" MF and 3" HF components.
- Medium Q, 75° x 30° dispersion, frequency response 220Hz-19kHz.
- Configurable for passive or active 2-way operation with NX242 Digital TController 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.

The AlphaE-M is a high power Mid/Hi module using an exponential horn loaded 10" MF driver and a constant directivity horn loaded 2" HF driver giving 75° x 30° dispersion. Operable 2-way passive for cost-effective system designs or 2-way active for ultimate performance and control, the AlphaE-M has a frequency response of 220Hz-19kHz. Together with a B1-18 Bass, the AlphaE-M delivers outstanding performance as a compact, arrayable medium scale system or a flexible near or side-fill supplement to the Alpha System.

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LIMITED WARRANTY  
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ALPHA E- M PRODUCT FEATURES

Components  
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  
400 x 689 x 754mm (15 3/4" x 27 1/8" x 29 11/16")

Shape  
22.5° trapezoid

Weight  
45kg (99.2lbs)

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/HF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON to B1-18 & S2. ÖWiring: 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

ALPHA E- M WITH NX242 DIGITAL TD CONTROLLER

Frequency Response  
220Hz – 19kHz ±3dB

Usable Range @ -6dB  
180Hz – 20kHz ±6dB

Sensitivity  
107dB SPL Nominal

Nominal Peak SPL @ 1m  
140dB Peak

Nominal Impedence  
8Ω (7.5 min)

Recommended Amplifiers  
Passive: 700 to 1000Watts; Active: 500 to 700Watts MF, 200 to 300Watts HF into 8Ω

SYSTEM OPERATION

Electronic Controller  
The AlphaE-M Mid/Hi 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-M Mid/Hi and B1-18 Bass 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-M Mid/Hi carpet finished (without wheelboard) = Ref: AL.EM-C.

AlphaE-M Mid/Hi painted (without wheelboard) = Ref: AL.EM-P.

Packaging  
AlphaE-M Mid/Hi 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. Front cover= Ref: AL.WLO.6.
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.

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### ALPHA E- F FULL RANGE LOUDSPEAKER

**Components**
- LF: 1x 18" (46 cm) long excursion 8Ω driver
- MF: 1x 10" (25 cm) 8Ω 3" voice coil driver + Dual Ring Phase Plug
- Composite HornHF: 1x 3" titanium diaphragm ceramic driver + Coastal 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 (216 lbs) With wheelboard: 105kg (231 lbs)

**Connectors**
- 2x NL8MP 8-pole SPEAKON (In & Loop Through)
- Passive: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF/HF), 4+ & 4- (HF)
- 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)

**System Specifications** ALPHAE-F WITH NX242 DIGITAL TDCONROLLER

<table>
<thead>
<tr>
<th>Frequency Response [a]</th>
<th>40Hz – 19kHz ±3dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable Range [a]</td>
<td>38Hz – 20kHz ±6dB</td>
</tr>
<tr>
<td>Sensitivity [b]</td>
<td>107dB SPL Nominal</td>
</tr>
<tr>
<td>Nominal Peak SPL [b]</td>
<td>LF: 142dB Peak, MF/HF: 140dB Peak</td>
</tr>
<tr>
<td>Nominal Impedence [b]</td>
<td>LF: 6Ω (4.7 min), MF/HF: 8Ω (7.5 min)</td>
</tr>
<tr>
<td>Recommended Amplifiers</td>
<td>LF into 6Ω, Passive MF/HF: 700 to 1000Watts, Active: 500 to 700Watts MF, 200 to 300Watts HF into 8Ω</td>
</tr>
</tbody>
</table>

**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**

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

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