TECHNICAL DATA SHEET ›

ELEMENTS E 835/E 435

The E 435 and E 835 enclosures serve as the HK Audio ELEMENTS series' mid/high line sources. Equipped with four or eight 3.5" fullrange speakers configured in a line array and a built-in signal bus, these units can be stacked and scaled up to assemble taller columns. This design, based on the line array principle, brings all the acoustical benefits of line-source columns to bear, including a tightly focused pattern of throw. Its horizontal directivity is 70°, while the vertical directivity ranges from 0° to 10°, depending on the configuration. This dispersion pattern ensures audiences in acoustically challenging venues – such as houses of worship, school gyms and the like – can be addressed with pinpoint precision. The E 435 and E 835 line sources effectively minimize annoying reflections from ceilings and floors, and deliver a natural-sounding, clear audio image. Designed specifically for the ELEMENTS line, the speakers inside the enclosure cover an exceptionally wide frequency range extending from the low mids typical of the human voice to 10+ kHz. This wide-ranging response, in combination with the line array effect, improves speech intelligibility markedly, even at greater distances.

Crafted of rugged, high-grade extruded aluminum, the HK Audio E 435 and E 835 enclosures are 38 and 74.5cm high respectively, 11cm wide and 12cm deep. Their look is one of understated elegance; their silhouette is inconspicuous. The INSTALL KIT, which features modified HK Audio E 435 and E 835 units and practical wall brackets, is available for permanent installation. Up to six E 435s or three E 835s may be combined in a set using these wall brackets. With the benefit of mounting yokes, the ELEMENTS INSTALL KIT may be adjusted 180° horizontally, and fixed in place quickly and easily using hex-head screws. Although standard HK Audio E 435 and E 835 units come in black or white, any RAL color is available on request. The E 435 and E 835 mid/high line sources can thus be made to match any interior design, fading into the background to become practically invisible.

› FEATURES

- Scalable mid/high units featuring line array technology
- Excellent directivity; uniform sound
- Column speakers with an inconspicuous design
- Rugged aluminum housing
- Built-in E-Connect signal bus
- Lightweight; quick and easy installation

› TECHNICAL SPECIFICATIONS

HK Audio E 435

Power Handling:	150 Watts RMS
Speakers:	4 x 3.5" - Fullrange Woofer
Horizontal Directivity:	70°
Vertical Directivity:	0 – 10° (Depending on the number of mid/high line sources)
Frequency Response (-10 dB):	140Hz – 20kHz with active filtering
Max SPL* (10% Thd, Half Space):	111 dB (125dB for the largest line array with six E 435s)
Nominal Impedance:	16 Ohms
Axial Sensitivity 1W/1m:	97dB, Half Space
Connections:	1 x E-Connect-In, 1 x E-Connect-Out
Dimensions (WxHxD):	11 x 38** x 12 cm
Weight:	2.35 kg

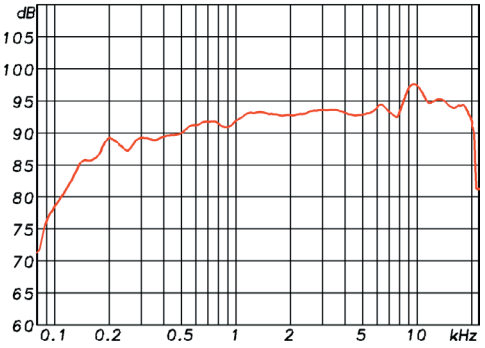
HK Audio E 835

Power Handling:	300 Watts RMS
Speakers:	8 X 3.5" Fullrange Woofer
Horizontal Directivity:	70°
Vertical Directivity:	0 – 10° (Depending on the number of mid/high line sources)
Frequency Response (-10dB):	140Hz – 20kHz with active filtering
Max. SPL * (10% Thd, Half Space):	117 dB (125dB for the largest line array with three E 835s)
Nominal Impedance:	8 Ohms
Axial Sensitivity 1W/1m:	100dB, Half Space
Connections:	1 x E-Connect-In, 1 x E-Connect-Out
Dimensions (WxHxD):	11 x 74.5** x 12 cm
Weight:	5.6 kg

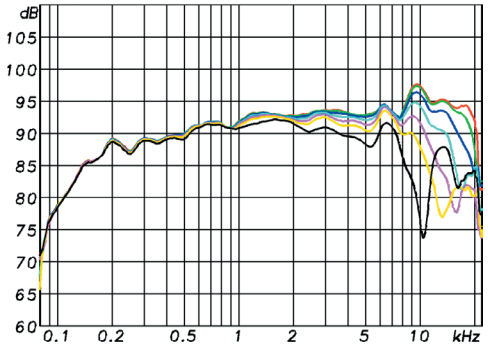
* Meaningful comparisons between the levels of ELEMENTS and of conventional point-source systems cannot be drawn as ELEMENTS is a line source whose level drops off 3dB rather than 6dB in the near field.
**Without E-Connect Sleeve

› MEASURING CHARTS

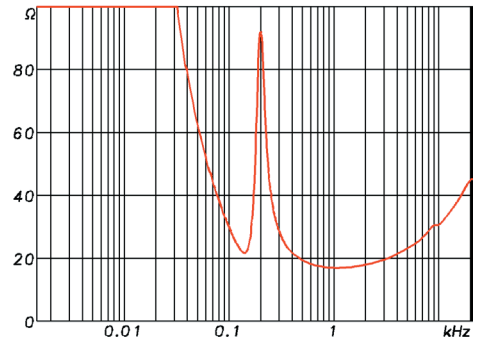
The following measurements were taken for one E 435 mid/high line source unit. ELEMENTS systems are scalable, so combinations with additional mid/high line sources will yield different measurements. EASE and EASE Focus 2 software simulations provide a realistic picture of ELEMENTS' possibilities. The necessary GLL files may be downloaded at www.hkaudio.com



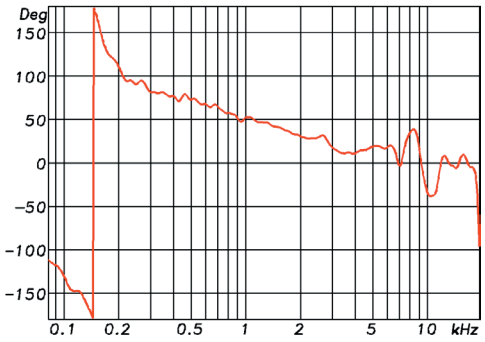
Frequency response 1 x E 435, filtered



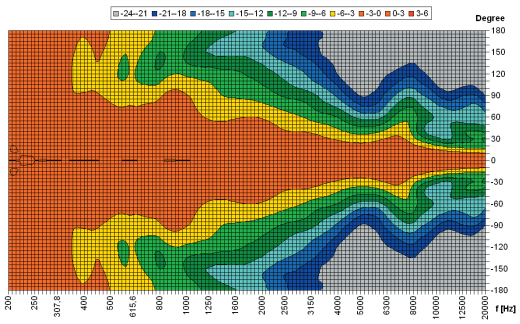
Frequency response 1 x E 435, 0° - 70°, horizontal in 10° steps



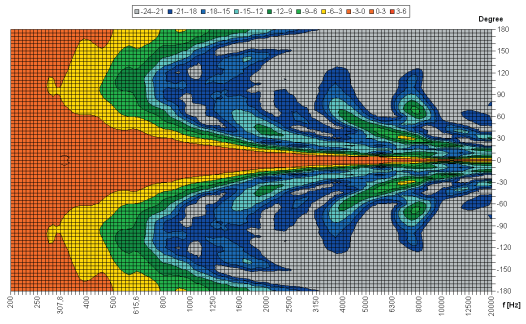
Impedance



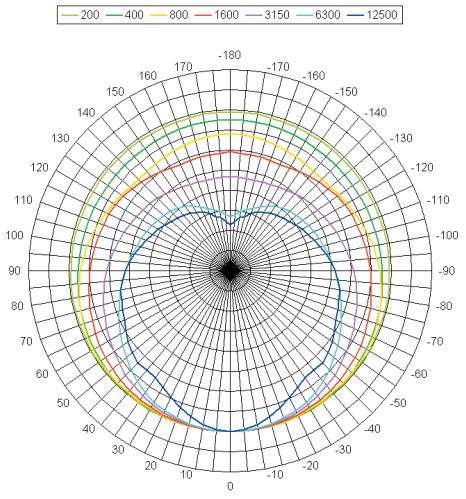
Phase



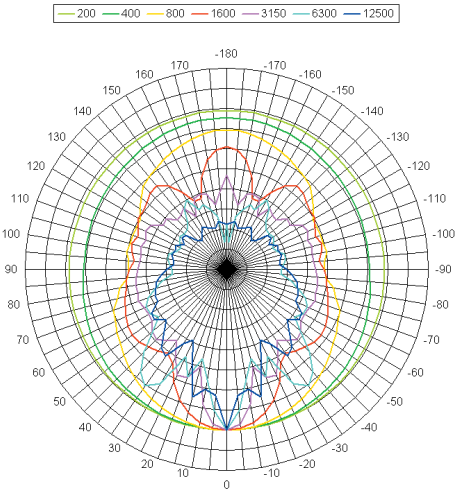
Horizontal directivity



Vertical directivity



Horizontal polar diagram



Vertical polar diagram