

8430A Operating Manual

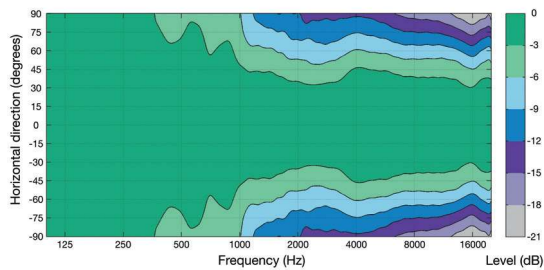


Figure 4: The horizontal directivity characteristics of the 8430.

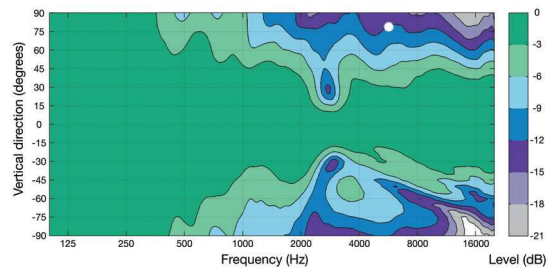


Figure 5: The vertical directivity characteristics of the 8430.

SYSTEM SPECIFICATIONS

Frequency range -6 dB:	45 Hz – 23 kHz
Accuracy of frequency response:	±1.5 dB (58 Hz – 20 kHz)
Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz:	> 104 dB SPL
Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit):	> 96 dB SPL
Maximum peak acoustic output per pair, 1 m distance with music material:	> 110 dB
Self generated noise level in free field on axis:	< 5 dB (A weighted)
Harmonic distortion at 85 dB SPL on axis:	50...100 Hz ≤ 2 % >100 Hz ≤ 0.5 %
Drivers:	
Woofer	130 mm (5 in) cone
Tweeter	19 mm (¾ in) metal dome
Weight:	5.5 kg (12.1 lb)
Dimensions:	
Height including Iso-Pod™ table stand	299 mm (11 ¹³ / ₁₆ in)
Height without Iso-Pod™ table stand	285 mm (11 ¹ / ₄ in)
Width	189 mm (7 ⁷ / ₁₆ in)
Depth	178 mm (7 in)

AMPLIFIER SECTION

Bass amplifier short term output power	50 W
Treble amplifier short term output power	50 W
Total harmonic distortion at nominal output	<0.05%
Mains voltage	100-240 VAC, 50-60 Hz
Power consumption (ISS active / idle / maximum)	< 0.5 W / 3.0 W / 50 W

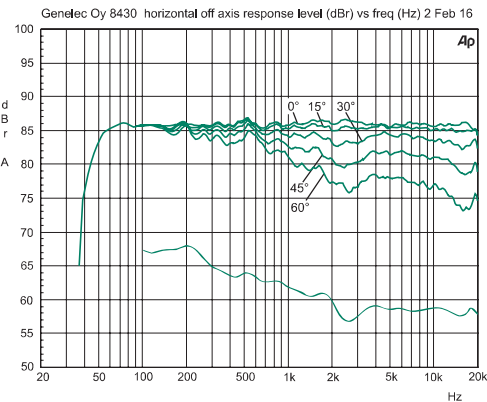


Figure 6: The upper curve group shows the horizontal characteristics of the 8430A measured at 1 meter distance. The lower curve shows the power response of the 8430.

INPUT SECTION

Audio-over-IP format and input connector	AES67 and RAVENNA RJ45 connector with or without an XLR shell Fast Ethernet 100BASE-TX (IEEE 802.3)
Audio-over-IP input word length and format	L16 (16 bits), fixed point linear PCM fraction (RFC1890) L24 (24 bits), fixed point linear PCM fraction (RFC3190)
Audio-over-IP Input sampling rate	44.1, 48, 88.2, 96 kHz
Crossover frequency	2.9 kHz
Analog input (load impedance)	XLR female (10 kOhm, balanced)
Analog input level for 100 dB SPL output at 1 meter	-6 dBu (adjustable in GLM software)
Maximum analog input	24 dBu
GLM Control network connectors	2 x RJ45