

4420A Smart IP Installation Speaker

Technical Specifications

The 4420A packs the power and flexibility of Smart IP technology into an ultra-compact enclosure, bringing clarity, intelligibility and uniform room coverage to the tightest of spaces.



System Specifications

Frequency Response

62 Hz - 20 kHz (± 1.5 dB)

Low cutoff -6dB
55 Hz

High cutoff -6dB
39 kHz

SPL

Peak SPL
≥104 dB

Maximum peak acoustic output per unit in a listening room with music material, at 1 m, using PoE+ power.

Short term max SPL
≥100 dB

Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz at 1 m.

Long term max SPL
≥93 dB

Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit) at 1 m.

Self-generated noise

Self-generated noise
≤5 dB

Self generated noise level in free field at 1m on axis(A-weighted).

Weight

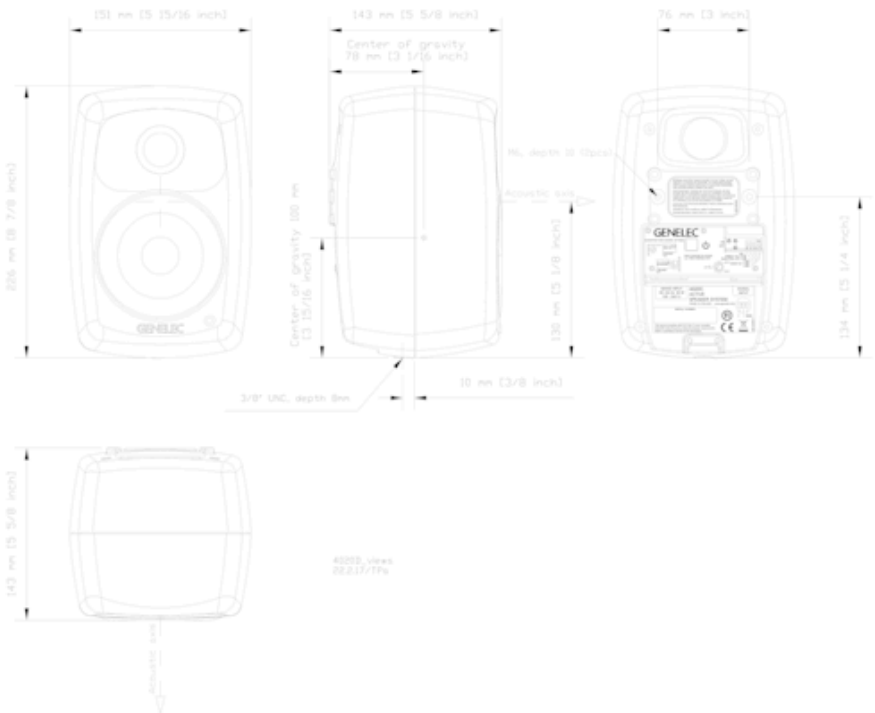
Weight
3.1 kg (6.8 lb)

Dimensions

Height
226 mm (8 7/8 in)

Width
151 mm (6 in)

Depth
142 mm (5 5/8 in)



Enclosure

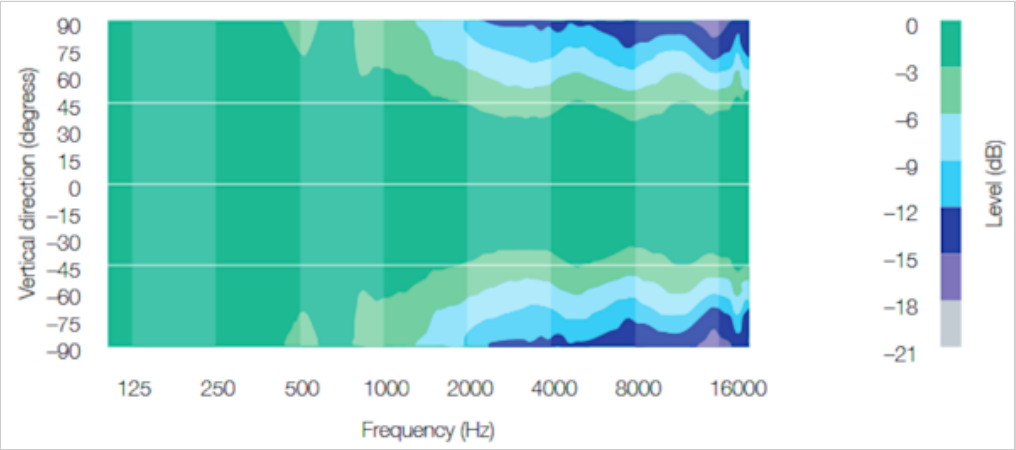
Enclosure material	Enclosure type
Die cast aluminium	Reflex port

Drivers

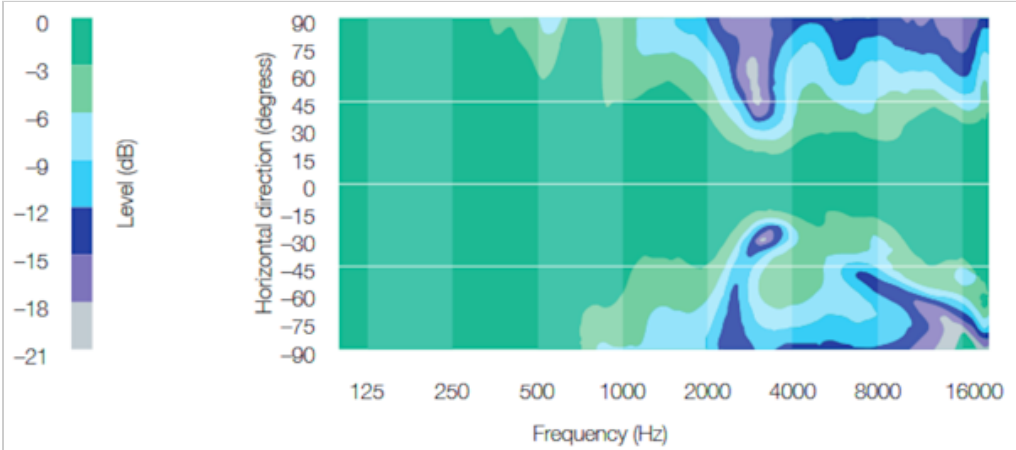
Woofer	Tweeter
Driver type	Driver type
Cone	Metal dome
Diameter	Diameter
105 mm (4 1/8 in)	19 mm (3/4 in)

Directivity

Vertical directivity



Horizontal directivity



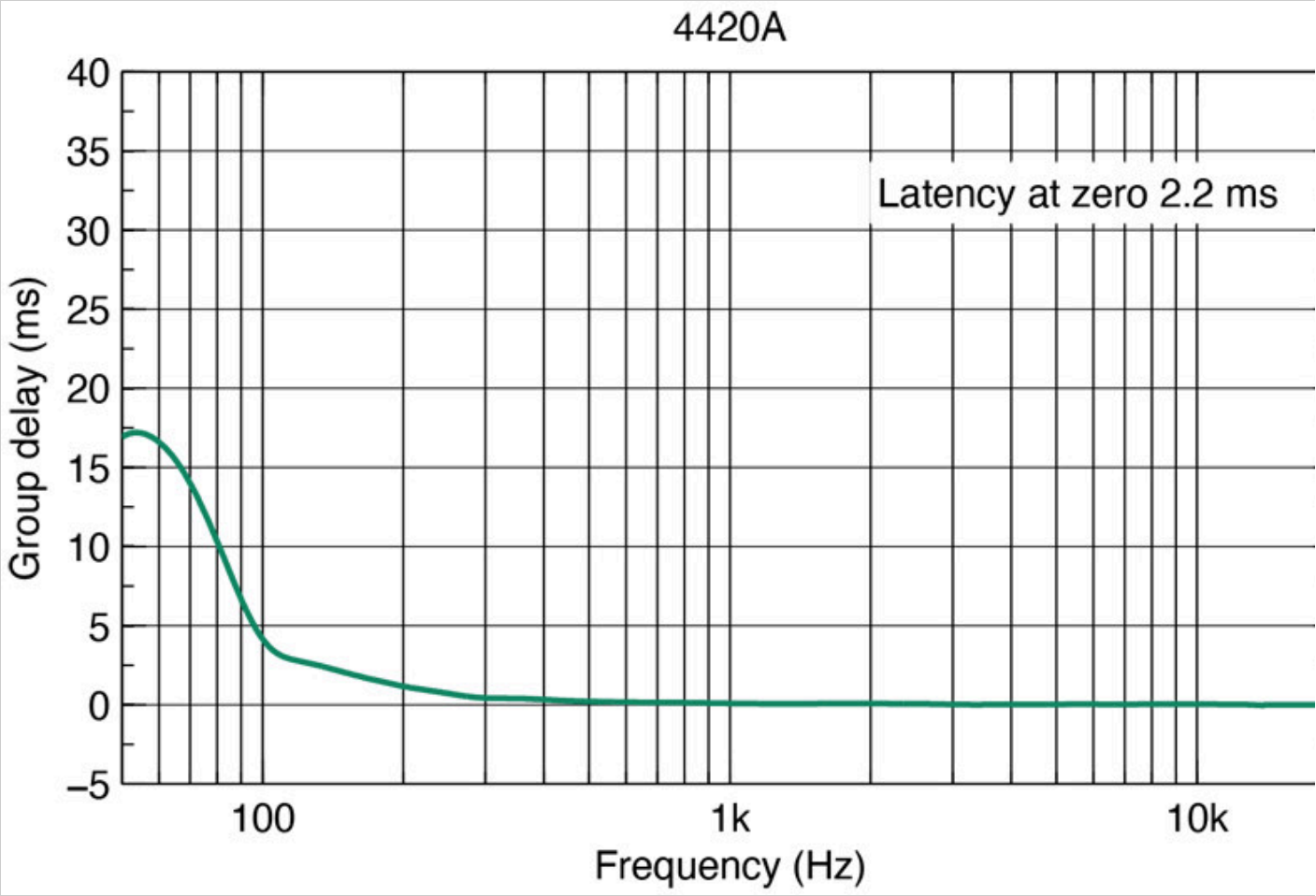
Harmonic distortion

50...200 Hz ≤2 %
> 200 Hz ≤0.5 %

Group delay

The latency at high frequencies from the input to the acoustic output, measured in the analog input:
2.2 ms

In Genelec performance graphics, the time of converting the from an electronic input signal to the acoustic output in a Genelec monitor is described by two factors – latency and group delay. The group delay factor can be read in the graphics for a specific frequency. The total frequency-specific input-to-output delay is a sum of the latency and group delay factors. To understand the significance of this total delay, consider that moving a loudspeaker away by 1 meter creates an additional delay of about 3 ms.



Amplifier Section

Amplifiers

4420A bass amplifier	4420A treble amplifier
50 W Class D	50 W Class D

Mains voltage

PoE+/PoE

Power consumption

ISS Active	Idle	Full output
≤4 W	≤5 W	25.5 W

Signal processing section

Connectors

Input	Input
Audio input is via a 10 kOhm balanced connector.	Ethernet (Power over Ethernet and Audio over IP)

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Crossover

Bass/Treble
3000 Hz

Product Variants

Product codes

Code	Product information	EAN code	CN code
	4420A Smart IP Installation Speaker Black		
	4420A Smart IP Installation Speaker White		
	4420A Smart IP Installation Speaker RAW		
	4420A RAL Colors		

For even more technical details please see product operating manual.