

8320A

SAM™ Studio Monitor

Technical Specifications

Compact enough to fit into the tightest of spaces - yet intelligent enough to adapt to your recording environment - the 8320A is your entry point into the world of Smart Active Monitoring.



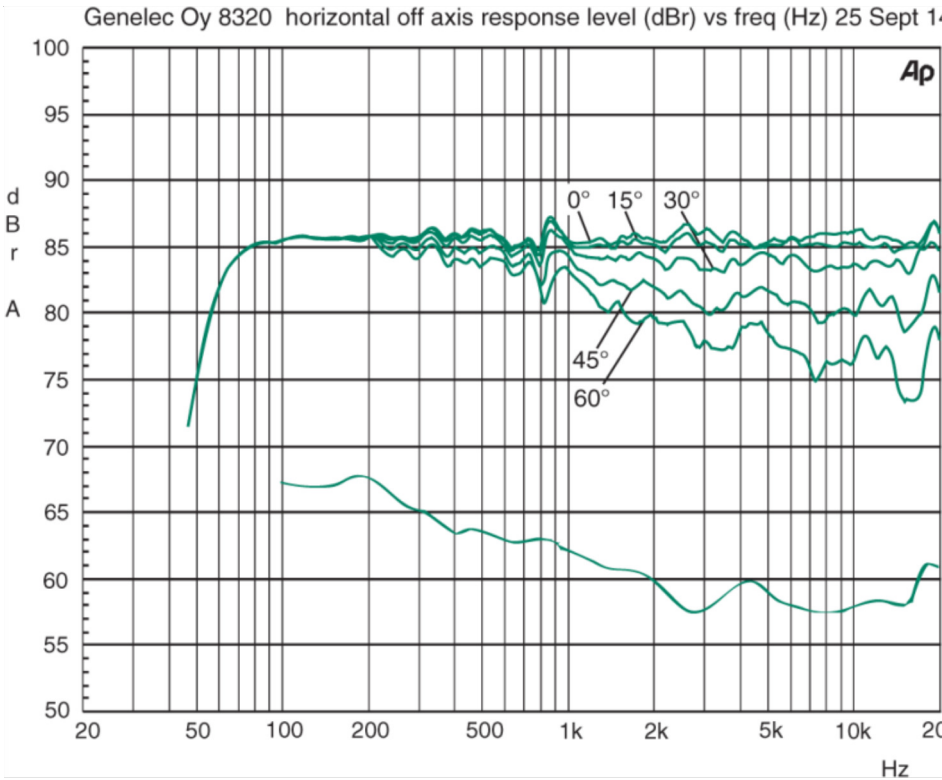
System Specifications

Frequency Response

66 Hz - 20 kHz (± 1.5 dB)

Low cutoff -6dB
55 Hz

High cutoff -6dB
23 kHz



SPL

Peak SPL
 ≥ 107 dB

Maximum peak acoustic output per pair, at 1 m distance with music material.

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.

Long term max SPL
 ≥ 94 dB

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

Self-generated noise

Self-generated noise
 ≤ 5 dB SPL

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

Weight

Weight
3.2 kg (7.1 lb)

Dimensions

Height

230 mm (9 in)

Height with Iso-Pod

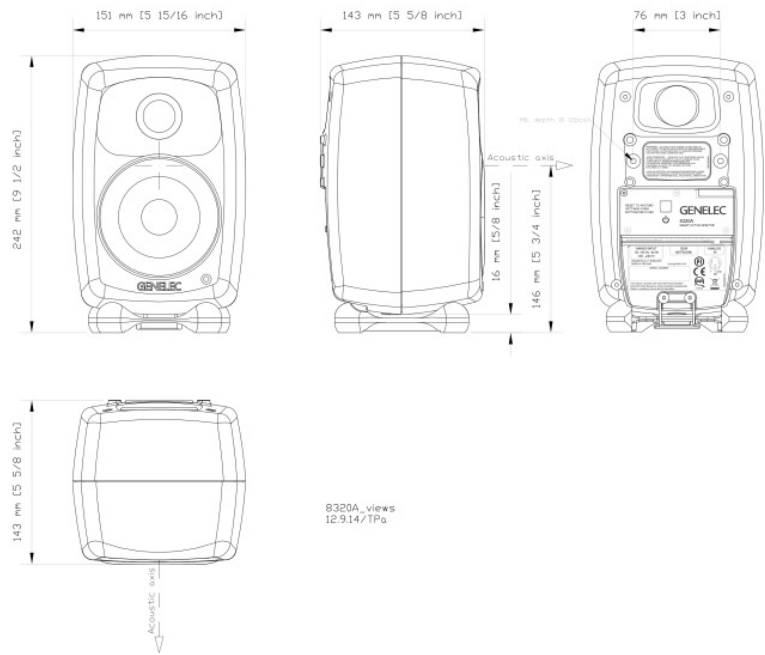
242 mm (9 1/2 in)

Width

151 mm (6 in)

Depth

142 mm (5 5/8 in)



Enclosure

Enclosure material
Die cast aluminium

Enclosure type
Reflex port

Drivers

Bass

Driver type
Cone

Diameter

105 mm (4 1/8 in)

Treble

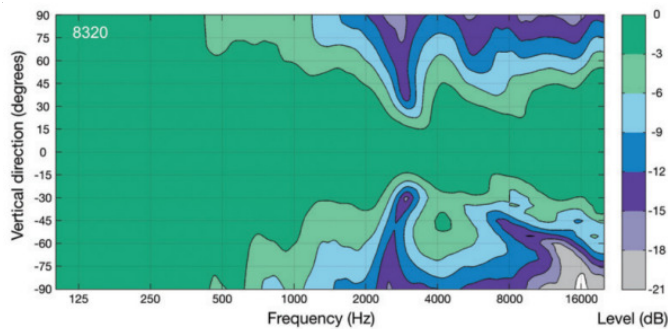
Driver type
Metal dome

Diameter

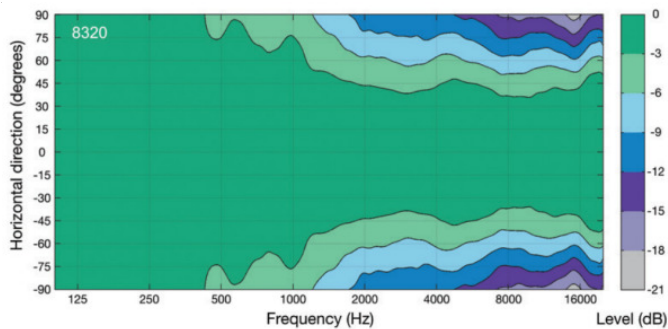
19 mm (3/4 in)

Directivity

Vertical directivity



Horizontal directivity



Harmonic distortion

50...200 Hz $\leq 3\%$

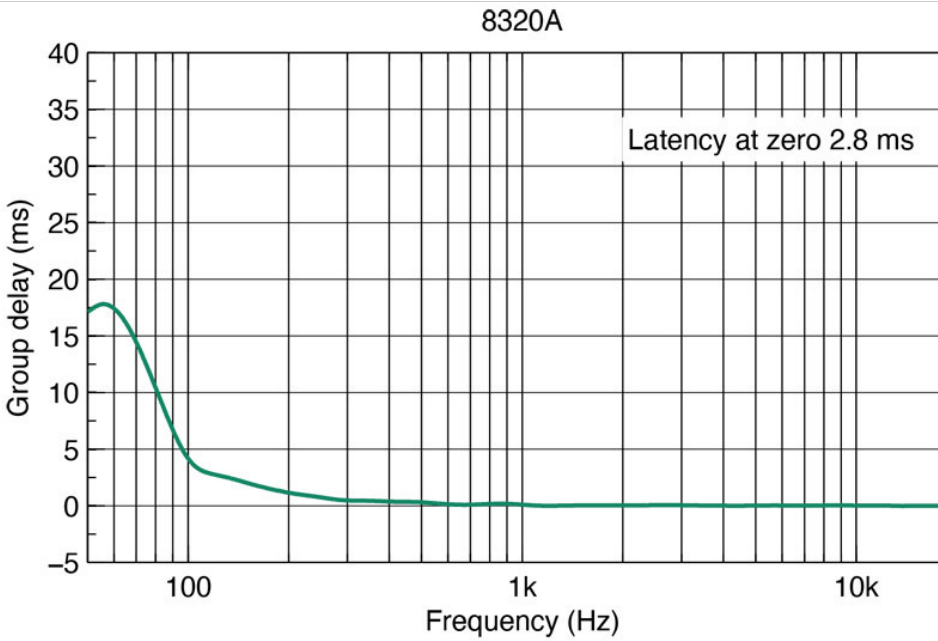
> 200 Hz $\leq 0.5\%$

Group delay

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

Extended Phase Linearity in GLM set to OFF
2.8 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

8320A bass amplifier
50 W Class D

8320A treble amplifier
50 W Class D

Mains voltage

100-240 VAC 50/60Hz

Power consumption

ISS Active
≤0.5 W

Idle
≤3 W

Full output
50 W

Signal processing section

Connectors

Input	2 x Control
Analogue signal input connector XLR female, balanced 10 kOhm.	Two CAT5 (RJ45) GLM Network connectors for computer control using the Genelec Loudspeaker Manager (GLM) software.

Product Variants

Product codes

Code	Product information	EAN code	CN code
8320AP	8320A SAM™ Studio Monitor Dark Grey		
8320AWM	8320A SAM™ Studio Monitor White		
8320AP	8320A SAM™ Studio Monitor RAW		

Compatible Accessories

Product codes

Code	Product information	EAN code	CN code
8000-406	8000-406 Short table stand		

8000-450B	8000-450 TRIOL Floor Stand Black
8000-450W	8000-450W TRIOL Stand White
8000-425B	8000-425B Adjustable height table stand (301-527 mm)
8020-320B	8020-320B Table stand L-shape, Black
8020-320W	8020-320W Table stand L-shape, White
8000-409B	8000-409B Floor stand (950-1430 mm)
8000-403	8000-403 Floor stand (mic stand)
8020-408	8020-408 Stand plate for 8020 Iso-Pod
8020-438W	8020-438W White Stand plate for 8020 Iso-Pod
8000-202B	8000-202B Short ceiling mount ball joint, Black
8000-202W	8000-202W Short ceiling mount ball joint, White
8000-436B	8000-436B Short ceiling mount, Black
8000-436W	8000-436W Short ceiling mount, White
8000-442B	8000-442B Short adjustable ceiling mount, Black
8000-442W	8000-442W Short adjustable ceiling mount, White
8000-444B	8000-444B Long adjustable ceiling mount, Black
8000-444W	8000-444W Long adjustable ceiling mount, White
8000-446B	8000-446B Truss mount kit, adjustable length
8000-416B	8000-416B Short truss mount with clamp
8000-454B	8000-454B T-adapter plate
4000-410B	4000-410B Wall mount (simple bracket), Black (Genelec)
4000-410W	4000-410W Wall mount (simple bracket), White (Genelec)
8000-420CB	8000-420CB Short wall mount, Black
8000-420CW	8000-420CW Short wall mount, White
8000-422B	8000-422B Adjustable wall mount with T-plate, Black
8000-422W	8000-422W Adjustable wall mount with T-plate, White
8000-402B	8000-402B Wall mounting bracket, Black
8000-402W	8000-402W Wall mounting bracket, White
8020-440	8020-440 for 8020, Black
8020-440W	8020-440W for 8020, White
8000-437B	8000-437B VESA adapter 75/100 mm, Black
8020-423	8020-423 Soft carrying bag for two pcs 8X20, Black

For even more technical details please see product operating manual.