

8340A

SAM™ Studio Monitor

Technical Specifications

Elevate the accuracy of your audio monitoring to a new level with the precision and adaptability of the 8340A Smart Active Monitor.



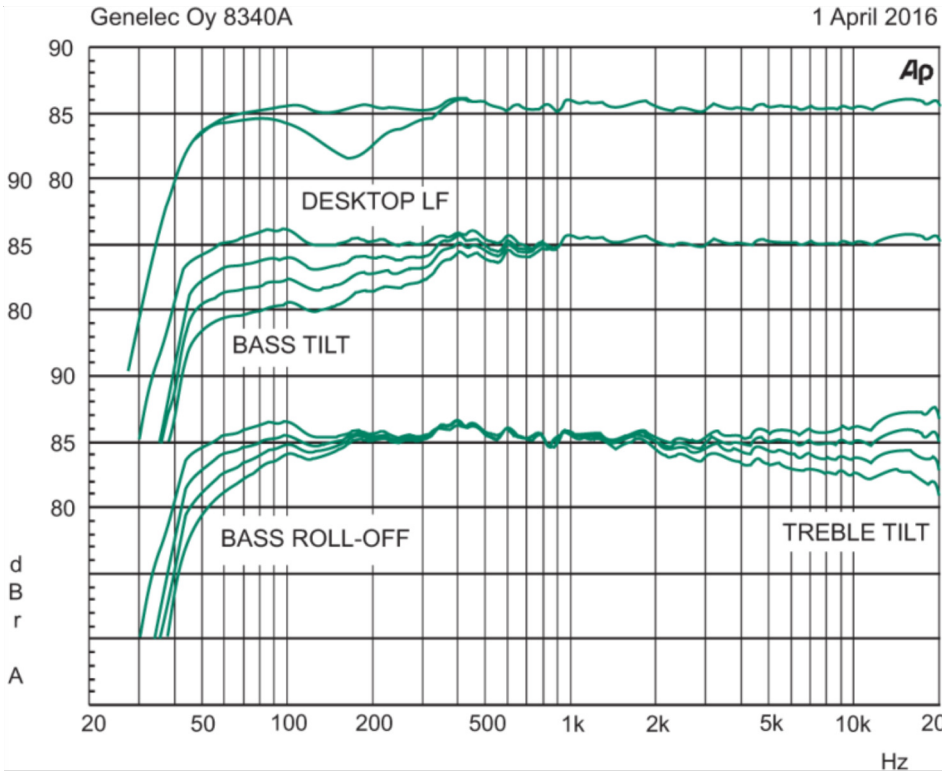
System Specifications

Frequency Response

45 Hz - 20 kHz (± 1.5 dB)

Low cutoff -6dB
38 Hz

High cutoff -6dB
22 kHz



SPL

Peak SPL
 ≥ 118 dB

Maximum peak acoustic output per pair in a listening room with music material at 1 m.

Short term max SPL
 ≥ 110 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
 ≥ 100 dB

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

Self-generated noise

Self-generated noise
 ≤ 5 dB SPL

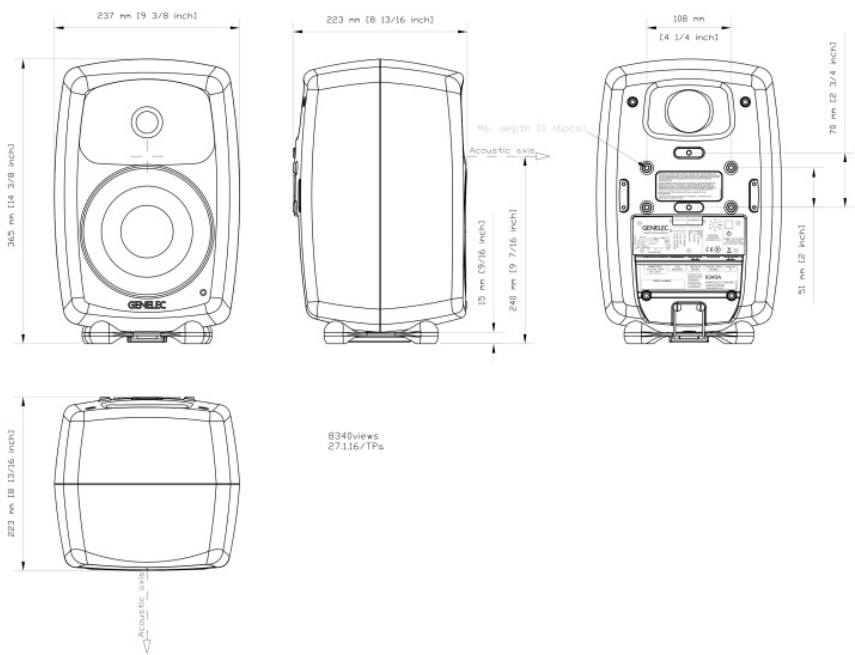
Self generated noise level in free field on axis (A-weighted).

Weight

Weight
8.4 kg (18.5 lb)

Dimensions

- Height**
350 mm (13 3/4 in)
- Height with Iso-Pod**
365 mm (14 3/8 in)
- Width**
237 mm (9 3/8 in)
- Depth**
223 mm (8 3/4 in)



Enclosure

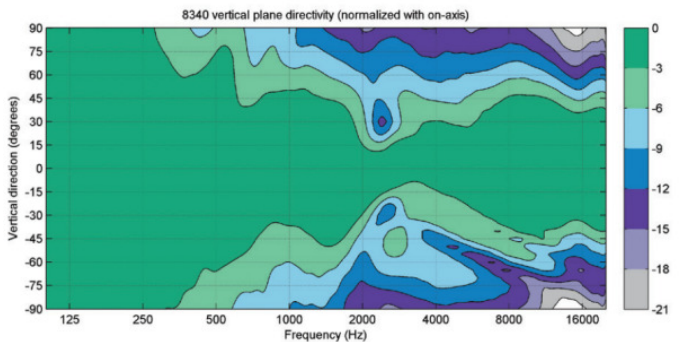
- Enclosure material**
Die cast aluminium
- Enclosure type**
Reflex port

Drivers

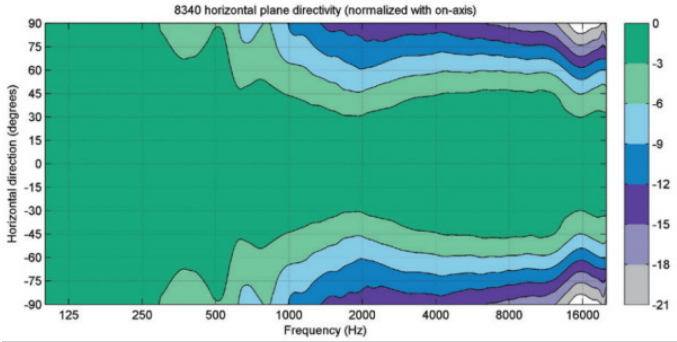
- Bass**
- Driver type**
Cone
- Diameter**
165 mm (6 1/2 in)
- Treble**
- Driver type**
Metal dome
- Diameter**
19 mm (3/4 in)

Directivity

Vertical directivity



Horizontal directivity



Harmonic distortion

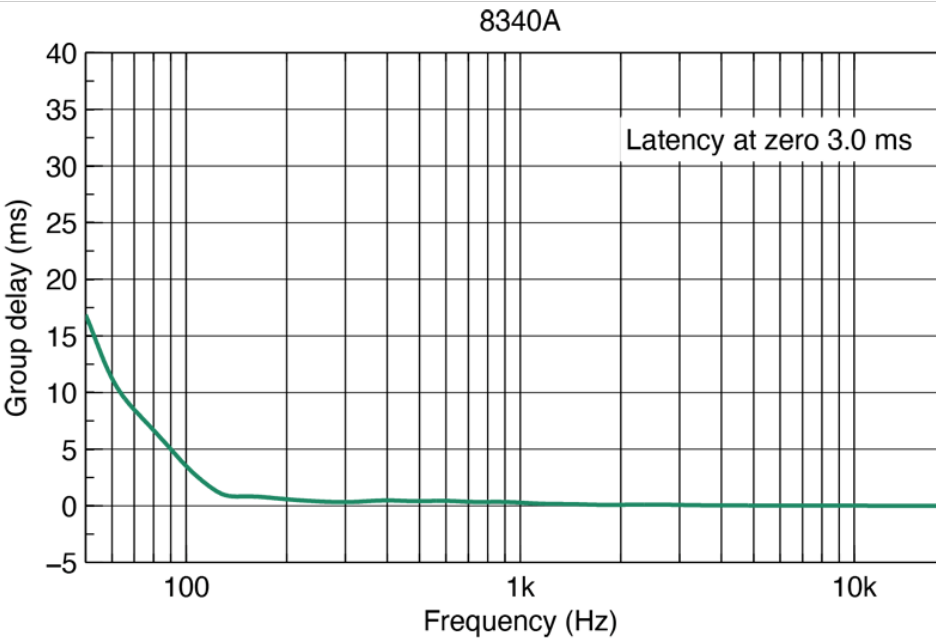
- 50...100 Hz $\leq 2\%$
- > 100 Hz $\leq 0.5\%$

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
3.0 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

8340A bass amplifier
150 W Class D

8340A treble amplifier
150 W Class D

Mains voltage

100-240 VAC 50/60Hz

Power consumption

ISS Active
≤1 W

Idle
≤12 W

Full output
180 W

Signal processing section

Connectors

Input

Analog signal input connector XLR female, balanced 10 kOhm.

Input

Digital signal input connector XLR female 110 Ohm.

Output

Digital signal output / Thru connector XLR male 110 Ohm.

2 x Control

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
8340APM	8340A SAM™ Studio Monitor Dark Grey		
8340AWM	8340A SAM™ Studio Monitor White		
8340APM	8340A 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		
8000-325B	8000-325B Table stand L-shape, Black		
8000-325W	8000-325W Table stand L-shape, White		
8000-400	8000-400 Genelec Design stand		
8000-409B	8000-409B Floor stand (950-1430 mm)		
8040-408	8040-408 Stand plate for 8X40, 8341 Iso-Pod		
8040-438W	8040-438W White stand plate for 8X40, 8341 Iso-Pod		
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		
8000-402B	8000-402B Wall mounting bracket, Black		
8000-402W	8000-402W Wall mounting bracket, White		
8000-437B	8000-437B VESA adapter 75/100 mm, Black		
8341-450B	8341-450B Flush mount kit, Black		
8000-841	8000-841 Empty case for two pcs 8X40/8341, Matte Black		
8040-423	8040-423 Soft carrying bag for two pcs 8X4X, Black		
	4000-414 Wall mount Black		
	4000-414 Wall Mount White		

For even more technical details please see product operating manual.