

G1GIYA

designpreview



VIVID audio



G1 GIYA

Giya is a loudspeaker system like no other.

Evocative of the special spirit of our newest design and proudly symbolic of Vivid Audio's African roots, the name *Giya* is derived from a classic form of Zulu dance. Wrapped within Giya's distinctive shell-like appearance lies an exceptional level of engineering detail and acoustic design sophistication that have become the hallmark of our company. Its very shape is defined by proven acoustic principles taken to their logical conclusions, untethered by conventional wisdom or common construction techniques. Every element of the design has been refined to an extraordinary degree—from our patented hand-built drive units, to our cast composite enclosure, to our relentless elimination of resonances and reflections.

Giya is defined by its remarkable sense of sonic transparency and tonal naturalness. Myriad technical details must be skillfully combined to achieve such performance and one design element in particular is largely responsible for Giya's uncommon appearance. Beginning with his renowned *Nautilus* design when at B&W, principal Vivid Audio designer Laurence Dickie pioneered the application of tapered tube absorbers behind drive units as a means to eliminate destructive resonances and reflections. With Giya, we apply this design technique to all four of the driver subsystems in the loudspeaker, *including the low frequency section*. It is exactly this tapered bass enclosure which

◀ Principal designer Laurence Dickie with his newest creation, the G1 Giya Loudspeaker



coils around to such visually striking effect atop the cabinet. But our story doesn't end here, because it is our innovative combination of this tapered absorption tube with a pair of reaction-canceling critically-tuned vents that is unique. Our patent-pending technology provides the benefits of near-complete elimination of internal resonances and reflections afforded by the tapered absorber, along with the low distortion, high efficiency, and moderate enclosure size courtesy of the vents.

A completely new high output bass driver was developed for Giya and is employed as a reaction canceling pair visible on either side of the enclosure. An impressive technical story in its own right, the C225 driver includes many of the proprietary technical innovations for which Vivid Audio has become recognized. When combined with our advanced enclosure and filter network design, the result is incredibly tight, articulate bass without a trace of overhang, delivered with impressive authority and solidity.

There are in fact many technical details that are responsible for Giya's remarkable performance, many of them developed and patented by Vivid Audio: catenary dome profiles, open pole radially polarized rare-earth magnet systems, isolating compliant driver mounts, reaction-canceling bass driver mounts, short-coil long-gap motor systems, highly vented voice coil formers, highly aligned heat-conductive driver chassis, tapered tube absorbers, and other innovations . . .

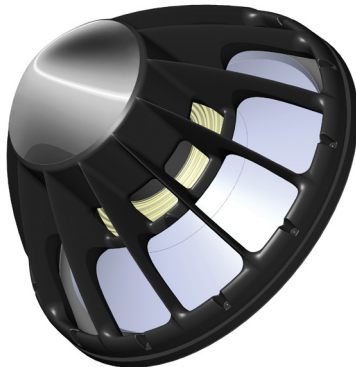
And so, with pleasure, we introduce you to our newest Vivid Audio design, the G1 Giya.

► Design Group

Laurence Dickie, Principal Designer
Alison Risby, Industrial Designer, B&W Nautilus
George Elphick, Architect
Chris Stevens, Artist in Residence, St. Michael's Place
Roger Beecroft, Head of Photography, University of Nottingham



G1GIYA Preliminary Specification



Configuration : 4-way 5-driver system

Cabinet : Reinforced advanced composite

Finish : Multi-component high-gloss automotive

High frequency driver : Vivid Audio D26 (patented)

Catenary dome profile

Radially polarized super flux magnet structure

Isolating compliant mount, Tapered tube loading

Mid frequency driver : Vivid Audio D50 (patented)

Catenary dome profile

Radially polarized super flux magnet structure

Isolating compliant mount, Tapered tube loading

Mid-bass driver : Vivid Audio C125S (patented)

Short-coil long-gap motor design

50mm copper ribbon coil on highly vented former

Highly aligned chassis, Radial magnet structure

Isolating compliant mount, Tapered tube loading

Bass drivers : Two Vivid Audio C225

Short-coil long-gap motor design

75mm copper ribbon coils on highly vented formers

Highly aligned chassis, Radial magnet structures

Reaction canceling compliant mount

Bass loading : Exponentially tapered tube absorber combined with critically tuned reaction canceling vents (patent pending)

Sensitivity : 91 dB @ 2.83Vrms and 1.0 meter on axis

Impedance (Ω) : 6 nominal, 4 minimum, low reactance

Frequency range (Hz) : - 6 dB points 23 - 44,000

Frequency response (Hz) : 30 – 41,000 +/- 2 dB on reference axis

Harmonic distortion : < 0.5% over frequency range

Crossover frequencies (Hz) : 220, 880, 3500

Power handling (music program) watts rms: 800

Dimensions (H, W, D) mm : 1700, 440, 800

Net mass (kg) : 70



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Head Office & Factory : VIVID AUDIO (PTY) LTD. Unit 6 Chelsea Industrial Park, 17 Chelsea Avenue, New Germany, Durban, 3601, SOUTH AFRICA
+27 31 705 4168 voice +27 31 705 4167 fax e-mail: info@vividaudio.com

Engineering : VIVID AUDIO Ltd. 2 St. Michael's Place, Brighton, BN1 3FT, UNITED KINGDOM e-mail: eng@vividaudio.com

Marketing: VIVID AUDIO USA, 336 Walkley Hill Road, Haddam, Connecticut, USA 06438-1016 e-mail: marketing@vividaudio.com