

PRODUCT BROCHURE

AUDIO FOR VERY SMART SPACES

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INTRODUCING AMINA

Audio for very smart spaces.

The world's market leader in the design and manufacture of invisible loudspeaker solutions. Amina Technologies Ltd is a UK based company who has been filling spaces with acoustic ambiance for the last 20 years.

By investing more than ever into R&D, Amina's patented technology provides continued acoustic excellence and is frequently specified by top designers and architects worldwide.

The constraints of the traditional loudspeaker means that they are often too bulky and unattractive, not befitting for elegant and design inspired spaces. The benefit of Amina invisible speakers means there is no compromise between high quality audio and design. Regularly used in residential and commercial spaces ranging from beautiful family homes, modern and historic properties to exclusive hotels, design retail stores,

restaurants, museums and spa complexes, Amina invisible speakers produce a non directional, open sound that fills beautiful spaces.

This open sound is all thanks to the invention of VPT (Vibrational Panel Technology) which uses a cleverly designed panel, with Amina's next generation neo-magnet to create small vibrations to generate sound which can be heard but not seen. The lightweight design can then be seamlessly integrated into any wall, ceiling or flat decorative panel with no visual impact or sound compromise, either during a new build or retrofit.

Amina speakers need no grille or cover and can be installed in a variety of places, depending on the model. The product can be completely plastered over and painted, covered with a thin wood veneer, wallpaper or fabric or even placed into cabinetry and other flat surfaces.



INVISIBLE SOUND SOLUTIONS

Why Invisible?

Increasing demand for integrated lifestyle technology combined with the associated 'aesthetic-clutter' that it brings has led to a rise in hidden technology solutions. With 30% of brain power dedicated to visual stimulus and only 2% dedicated to audio, it is clear that the way we 'see' sound has a huge impact on the way we perceive it. By removing the aesthetic aspect, it allows complete focus on the audio art-form as it was intended.

How does it Work?

Amina has been able to take the common loudspeaker design and replace the cone with a flat panel. Instead of moving forwards and backwards visibly like a typical cone design, a VPT panel uses small vibrations to generate sound which can be heard but not seen. This allows for sintegration of a loudspeaker into any wall, ceiling or flat decorative panel with zero pact.

Acoustic and construction Benefits

<u>Design and Install flexibility</u>

With a range of different construction methods and finishing techniques globally, Amina uses two core-technologies to allow integration of invisible loudspeakers into any room.

Both technologies are based on the principal of VPT loudspeaker design. Using an electromagnetic transducer, known as an exciter, to impart vibrational energy into a lightweight and stiff radiating panel. This vibrational energy radiates as high fidelity sound.

While it might seem like VPT loudspeakers to some extent 'reinvent the wheel', there are a number of key design and acoustic benefits to using a vibrational flat panel loudspeaker over a more traditional design.



Acoustic Benefits

VPT loudspeakers provide full-bandwidth 180° dispersion and generate what is known as an incoherent-phase waveform. These dispersion characteristics allow the loudspeaker to produce smooth room filling sound across the entire listening position. Whether used for low level background music, noise masking, foreground listening or home theatre application, Amina has a range of high fidelity invisible loudspeakers to match any scenario.



Construction Benefits

Consisting of a flat radiating panel and a low profile exciter system, Amina Loudspeakers provide the opportunity to integrate seamlessly with the design of the property. The flat section of a wall, ceiling or piece of furniture can be used to generate roomfilling sound while becoming completely invisible once installed.

Part Loudspeaker and part construction material, Amina Invisible Loudspeakers are designed to be just as much a rugged building material as they are a precise acoustic device.

Designed for acoustic excellence, engineered for construction.

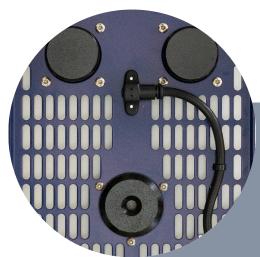
TWO CORE TECHNOLOGIES

Drywall Loudspeakers

With cavity walls and ceilings being a staple of the construction industry globally, Edge series loudspeakers provide a high performance solution in a lightweight and easy to install package where cavity walls and ceilings have been used.

Designed to replace a small section of plasterboard/drywall, Amina Edge series loudspeakers have their perimeter filled, taped and feathered in the same way that tapered board is installed and finished. The entire wall/ceiling can then be painted and decorated, allowing the loudspeaker to become fully invisible.

The loudspeaker is only ever attached to the olasterboard itself and not the studwork, meaning that no special framing is required.



Fully Covered speakers

Vhere drywall building techniques are not being used, or for where there is a specialist covering material, Amina Mobius Series loudspeakers provide a flexible sound solution for a range of design-led finishes.

Engineered to work with the covering material, Mobius loudspeakers can be installed into a number of different materials or with a variety of finish options.

Mobius loudspeakers provide ultimate installation flexibility. Covering options include wood, leather, natural stone veneer, wet plaster skim (Cavity or solid block installation) or specialist finish such as acoustic or polished plaster. This includes DIBOND®, a composite material with Aluminium skins, available in various finishes, even including a mirror finish

EDGE i SERIES



<u>The latest innovation in invisible</u> <u>speaker technology.</u>

A new revolutionary design for invisible loudspeaker technology, the Amina Edge i Series offers smooth low frequency extension with increased power handling and sensitivity, resulting in a dynamic and engaging listening experience that has never previously been heard from an invisible loudspeaker.

Building on the incredible performance of the Amina Mobius series, Amina Edge i loudspeakers incorporate OptiDamping™, OptiDrive™, Reduced-resonance exciter technology and Amina's new (patent pending) ToneRelief™ technology, built into a plaster up-to design. Designed for application within drywall construction techniques, Amina Edge i loudspeakers incorporates a tapered perimeter. Once taped, filled, sanded and painted, the loudspeaker becomes fully invisible. Amina Edge i speakers can also be installed in post-plaster situation (retrofit) where there is a full wet skim (Amina Edge i speakers should not be fully plastered over).

MOBIUS i SERIES

Highly flexible design integration.

The Mobius i series provides the greatest flexibility for interior design integration and installation of any invisible loudspeaker. Delivering incredible high frequency performance across the entire listening position, allowing for perfect reproduction with all the detail and clarity, no matter where in the space you are listening from.

Engineered to work behind a range of covering materials such as wet plaster skim (2mm), wood, leather, or high pressure laminate, to name a few, Mobius Loudspeakers offer the most flexible invisible audio solution available.



EDGE i SERIES



Edge 7i

4 Ohms 75W/150W 90dB 1m/2.83Vrms 55Hz - 27kHz (- 6db)

1.8Kg (3.96lbs) 450mm x 345mm

BackboxCV345 APUi70C_2



Edge 5i

4 Ohms 50W/100W 90dB 1m/2.83Vrms 60Hz - 26kHz (- 6db)

1.3Kg (2.86lbs) 450mm x 345mm

BackboxCV345 APUi50C_2



Edge 3

8 Ohms 30W/60W 86dB 1m/2.83Vrms 80Hz - 30kHz (- 6db)

1Kg (2.20lbs) 400mm x 300mm

BackboxCV300 APUi30C

MOBIUS i SERIES



Mobius 3

8 Ohms 30W/60W 84dB 1m/2.83Vrms 112Hz - 20kHz (± 6db)

> 1.08Kg (2.38lbs) 400mm x 300mm

> > BackboxCV300 APUi30C



Mobius 5i

4 Ohms 50W/100W 86dB 1m/2.83Vrms 75Hz - 29kHz (- 6db)

> 1.4Kg (3.08lbs) 450mm x 345mm

> > BackboxCV345 APUi50C_2



Mobius 7i

4 Ohms 75W/150W 87dB 1m/2.83Vrms 70Hz - 29kHz (- 6db)

> 1.8Kg (3.96lbs) 450mm x 345mm

> > BackboxCV345 APUi70C_2

SUBWOOFERS

Discrete integrated subwoofers using traditional subwoofer technology to add extra warmth all the way to room shaking bass for multi-channel surround sound systems. Vented through a small port opening, Amina subwoofers and bass enhancers are actually designed to be installed into walls, ceilings, cabinetry or even positioned in-room.

Images shown to scale.

Nominal Impedance
Power Handling
Sensitivity (1m / 2.83Vrms)
Frequency Response (± 6dB)
Electrical Connection
Dimensions
Weight
Fixing Requirements
Protection / Crossover
Rack-mount Protection Unit
Nack mount i fotoction onit



8 Ohms 60W 88dB 65Hz-155Hz

3-way binding post

3.2Kg (7lbs 1oz) L-brackets (supplied)

Built-in

N/A 2 Years

359mm x 157mm x 134mm

(141/8" x 63/16" x 51/4")

ALF80	ALF120
4 Ohms	6 Ohm
150W	50W
36dB	96dB
36Hz - 140Hz	27Hz-120Hz (with DSP filter applied)
Sprung terminal binding post	Sprung terminal binding post
605mm x 270mm x 156mm	1605mm x 345mm x 118mm
(237/8" x 105/8" x 61/8")	(633/16" x 131/2" x 43/4")
9.2Kg (20lbs 4oz)	17.5Kg (38lbs 9oz)
L-brackets (supplied)	Felt isolation pads (supplied)
Built-in	External DSP required (not supplied)
N/A	N/A
2 Years	2 Years

SUPPORT PRODUCTS

APU-RSiC APUiC BackboxSW (solid wall) BackboxCV (cavity wall/ ceiling) Providing a great solution for high-Passive rack-Single channel in-The BackboxSW For use when there Cavity wall Shims available to mounted line protection unit backboxes provides a is insufficient cavity allow alignment mounting option for solid or of speaker and protection for use with all loware an easy to space for an Amina end commercial unit for Amina impedance Amina cavity backbox backbox with installations, all install mounting loudspeakers. block walls and Amina Invisible low-impedance (less than 75mm). any thickness option for Amina Invisible Connected to the ceilings with Allows installation plasterboard other loudspeakers Loudspeakers Loudspeakers. output terminal into plasterboard Amina Invisible of Amina than 12.5mm (1/2") can be supplied with high-quality toroidally wound (or multi-layered For use in of the amplifier cavity walls and Loudspeakers loudspeakers into installations with [not suitable plasterboard with before the ceilings (drywall). build-up), ensuring that no more than transformers for higher numbers loudspeaker cable Creating an for installation a rear cavity depth of low-impedance to allow maximum acoustically tuned of Edge Series of just 30mm (rear 2mm plaster is both 100V and 70V line systems. Available in either speakers with loudspeaker cavity behind the loudspeakers]. of loudspeaker applied to the front of a plaster-over performance for a should be a centralised speaker, ensuring lifetime AV rack. Directboth consistent covered using soft loudspeaker. multi-tapped to-PCB screw Can be easily loudspeaker audio insulation material Shims can be used or fixed power dressed back terminal-blocks quality as well for alignment in a varieties for the where mounting blocks are used to retrofit installation allow for fast and with any cable as minimising most flexible easy permanent managément rearward prevent ingress of or alignment commercial installation. Either debris over time). of Edge Series airborne sound installation system 8 or 16 channel transmission. speakers. of Invisible options available. Loudspeakers.



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