

# PRODUCT BROCHURE



# AMINA

IMMERSIVE INVISIBLE SOUND



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A large waterfall cascading into a pool of water in a lush forest. The water is clear and green, and the surrounding trees are dense and green. The waterfall is the central focus of the image, with water falling from a rocky ledge into a pool below. The pool of water is in the foreground, and the waterfall is in the middle ground. The background is filled with trees and foliage, creating a sense of a deep forest. The overall scene is peaceful and natural.

# GOOD VIBRATIONS

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 loudspeakers 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, designer retail

stores, restaurants, museums and spa complexes, Amina invisible loudspeakers produce a non directional, open sound that beautifully fill spaces.

This open sound is all thanks to the invention of DML (distributed mode loudspeaker) which uses a cleverly designed flat panel, with Amina's high performance drivers 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 loudspeakers need no grille or cover and can be installed in a wide variety of places. 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.





# THE DML EFFECT

## CONVENTIONAL SPEAKERS

With the invention of DML, 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 DML panel uses microscopic vibrations to generate sound, which can be heard, but not seen. This allows for seamless integration of a loudspeaker into any wall, ceiling or flat decorative panel with zero visual impact.

## DML SPEAKERS (180° DISPERSION)

# FREEDOM TO CREATE

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.

## ACOUSTIC BENEFITS

Amina DML loudspeakers provide full-bandwidth 180° dispersion and generate what is known as a diffuse spread-source waveform instead of a conventional point-source waveform. These dispersion characteristics allow the loudspeaker to produce smooth room filling immersive sound. Whether used for lower level everyday lifestyle listening, noise masking, foreground listening or home theatre application, Amina has a range of high fidelity invisible loudspeakers to match your requirements.

## CONSTRUCTION BENEFITS

Consisting of a flat radiating panel and a low profile exciter drive system, Amina loudspeakers provide the opportunity to integrate seamlessly with the design of your space. Built into your flat section of wall, ceiling or piece of furniture, our loudspeakers generate room-filling 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.



# ALWAYS INVISIBLE

## DRYWALL LOUDSPEAKERS

With cavity walls and ceilings being a staple of the construction industry globally, Edge*i* 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*i* loudspeakers have their perimeter filled, taped and feathered in the same way that tapered board is installed and finished. The entire wall/ceiling is then painted and decorated, making the loudspeaker completely invisible.

Amina loudspeakers are only ever attached to the plasterboard itself and not the studwork, meaning that no special framing is required and reducing sound transmission.

## FULLY COVERED LOUDSPEAKERS

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

Engineered to work with a covering material, Mobius*i* loudspeakers can be installed into a number of different materials or with a variety of finish options and provide ultimate installation flexibility.

Covering options include, but are not limited to, wood, leather, natural stone veneer, full 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.



# 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 full plaster skim (2mm), wood, leather, or high pressure laminate, to name a few, Mobius*i* series loudspeakers offer the most flexible invisible audio solution available.





# EDGE*i* SERIES

## THE LATEST INNOVATION IN INVISIBLE SPEAKER TECHNOLOGY.

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* series loudspeakers incorporate OptiDamping™, OptiDrive™, and Amina's patented Reduced-resonance technology and ToneRelief™ technology. Designed for application within drywall construction techniques, Amina Edge*i* series loudspeakers incorporate a tapered perimeter. Once taped, filled, sanded and painted, the loudspeaker becomes fully invisible. The Amina Edge*i* series can also be installed in post-plaster situation (retrofit) where there is an existing full skim coat (Amina Edge*i* series loudspeakers should not be fully plastered over).



# EDGE*i* SERIES

# MOBIUS*i* SERIES



**Edge7*i***

4 Ohms  
75W/150W  
90dB 1m/2.83Vrms  
50Hz - 27kHz (- 6db)

1.8kg (3.96lbs)  
450mm x 345mm x 36mm

BackboxCV345  
APUi70C\_2



**Edge5*i***

4 Ohms  
50W/100W  
90dB 1m/2.83Vrms  
55Hz - 25kHz (- 6db)

1.3kg (2.86lbs)  
450mm x 345mm x 36mm

BackboxCV345  
APUi50C\_2



**Edge3*i***

8 Ohms  
30W/60W  
86dB 1m/2.83Vrms  
90Hz - 25kHz (- 6db)

1kg (2lbs 3oz)  
400mm x 300mm x 30.7mm

BackboxCV300  
APUi30C



**Mobius3*i***

4 Ohms  
30W/60W  
85dB 1m/2.83Vrms  
87Hz - 19kHz (± 6db)

1.1kg (2lbs 6oz)  
400mm x 300mm x 30.7mm

BackboxCV300  
APUi30C



**Mobius5*i***

4 Ohms  
50W/100W  
86dB 1m/2.83Vrms  
70Hz - 27kHz (- 6db)

1.4kg (3.08lbs)  
450mm x 345mm x 30.7mm

BackboxCV345  
APUi50C\_2



**Mobius7*i***

4 Ohms  
75W/150W  
87dB 1m/2.83Vrms  
65Hz - 27kHz (- 6db)

1.8kg (3.96lbs)  
450mm x 345mm x 30.7mm

BackboxCV345  
APUi70C\_2



# SUBWOOFERS

To add the wow factor to your project, Amina Invisible Subsubwoofers draw on traditional subwoofer technology to add extra warmth to your space, 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.



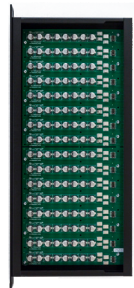
	ALF40	ALF80	NEW ALF100SM	ALF120
Nominal Impedance	8 Ohms	4 Ohms	4 Ohms	6 Ohm
Power Handling	60W	150W	200W	50W
Sensitivity (1m / 2.83Vrms)	88dB	86dB	90dB	93dB
Frequency Response (± 6dB)	65Hz-155Hz	36Hz-140Hz	30Hz-160Hz	24Hz-120Hz (with DSP filter applied)
Electrical Connection	Sprung terminal binding post	Sprung terminal binding post	Sprung terminal binding post	Sprung terminal binding post
Dimensions	359mm x 157mm x 134mm (14 <sup>1/8</sup> " x 6 <sup>3/16</sup> " x 5 <sup>1/4</sup> " )	605mm x 270mm x 156mm (23 <sup>7/8</sup> " x 10 <sup>5/8</sup> " x 6 <sup>1/8</sup> " )	108mm x 409mm x 1066mm (4 <sup>1/4</sup> " x 16 <sup>1/8</sup> " x 42" )	1605mm x 345mm x 118mm (63 <sup>3/16</sup> " x 13 <sup>1/2</sup> " x 4 <sup>3/4</sup> " )
Weight	3.2kg (7lbs 1oz)	9.2kg (20lbs 4oz)	20kg (44lbs)	17.5kg (38lbs 9oz)
Fixing Requirements	L-brackets (supplied)	L-brackets (supplied)	Fixes directly to studs or joists.	Felt isolation pads (supplied)
Protection / Crossover	Built-in	Built-in	Built-in	External DSP required (not supplied)
Rack-mount Protection Unit	N/A	N/A	N/A	N/A
Warranty (Residential/Commercial)	3 Years	3 Years	3 Years	3 Years



# SUPPORT PRODUCTS

## APU-RSiC

Passive rack-mounted protection unit for Amina low-impedance invisible loudspeakers. For use in installations with higher numbers of low-impedance speakers with a centralised AV rack. Direct-to-PCB screw terminal-blocks allow for fast and easy permanent installation. Either 8 or 16 channel options available.



## APUiC

Single channel in-line protection unit for use with all low-impedance Amina loudspeakers. Connected to the output terminal of the amplifier before the loudspeaker cable to allow maximum loudspeaker performance for a lifetime. Can be easily dressed back with any cable management system.



## BackboxCV (cavity wall/ ceiling)

Cavity wall backboxes are an easy to install mounting option for Amina loudspeakers into plasterboard cavity walls and ceilings (drywall). Creating an acoustically tuned cavity behind the loudspeaker, ensuring both consistent audio quality as well as minimising rearward airborne sound transmission.



## BackboxSW (solid wall)

The BackboxSW provides a mounting option for solid or block walls and ceilings with Amina invisible loudspeakers [not suitable for installation of Edgei series loudspeakers].



## Firehoods

Amina Firehoods by Hoody™, allow you to easily meet fire rating requirements of a wall or ceiling with an inexpensive and easy to install solution, offering complete peace of mind. Constructed from an intumescent kevlar material, the Firehood comes in three different sizes, meaning that there is an option for each of the three speaker sizes that Amina has to offer.



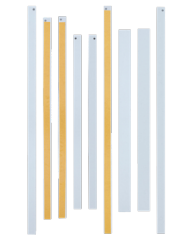
## Mounting Blocks

For use when there is insufficient cavity space for an Amina cavity backbox (less than 75mm). Allows installation of Amina loudspeakers into plasterboard with a rear cavity depth of just 30mm (rear of loudspeaker should be covered using soft insulation material where mounting blocks are used to prevent ingress of debris over time).



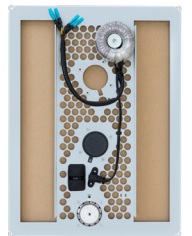
## Shims

Shims available to allow alignment of speaker and backbox with any thickness plasterboard other than 12.5mm (1/2") (or multi-layered build-up), ensuring that no more than 2mm plaster is applied to the front of a plaster-over loudspeaker. Shims can be used for alignment in a retrofit installation or alignment of Edgei series loudspeakers.



## Transformers

Providing a great solution for high-end commercial installations, all Amina invisible loudspeakers can be supplied with high-quality toroidally wound transformers for both 100V and 70V line systems. Available in either multi-tapped or fixed power varieties for the most flexible commercial installation of invisible loudspeakers.







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