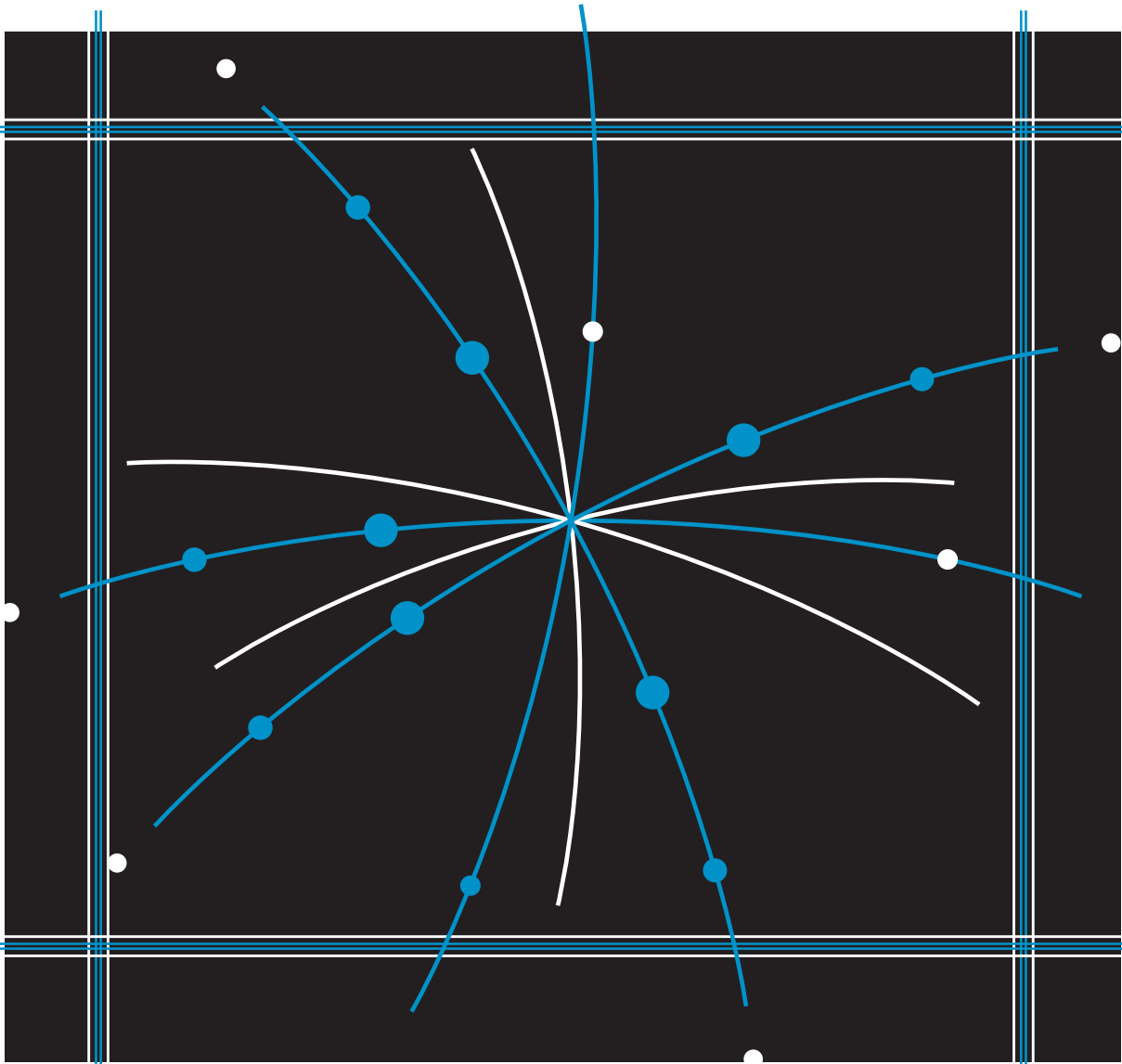


# RINGMAT VIVACITY AR



A modular controlled resonance solution  
for hi-fi and home cinema systems

*Minimises distortion from resonance*  
*Boosts picture quality of home cinema systems*  
*Optimises sound reproduction of hi-fi systems*

## PURE SOUND... CLEAR VISION...

Ringmat Vivacity AR is the first and only dedicated solution that eliminates the corruption from resonance in your hi-fi or home cinema equipment.

Ringmat Vivacity AR uses specially-designed controlled resonance panels which shield the equipment from resonance-generated signal distortion.

Supplied with a step-by-step installation guide, Ringmat Vivacity AR is easy to set up. And once in place, the effects can be seen and heard immediately:

### IN SOUND SYSTEMS

- Cleaner, crisper sound
- Outstanding resolution and separation
- Enhanced power and dynamics
- Wider, deeper soundstage
- Improved sense of timing and rhythm
- Added solidity to sound images
- Extra clarity of intonation and of voice inflections
- Clearer and more palpable ambience of the recording venue

### IN HOME CINEMA SYSTEMS

- Vast improvements in sound reproduction
- Clearer, sharper picture
- Deeper, more solid blacks
- More vibrant colours

## RINGMAT VIVACITY AR vs. RESONANCE

It's a fact. No matter how good the recording, as soon as you play a CD, LP or DVD, resonance will distort the signal quality.

Resonance is a naturally occurring phenomenon, which is stimulated by sound. Sound waves in the air cause nearby materials to vibrate, and more so if the materials are flat. In the case of hi-fi and home cinema systems, supporting structures like equipment stands, shelves and TV units are particularly vulnerable.

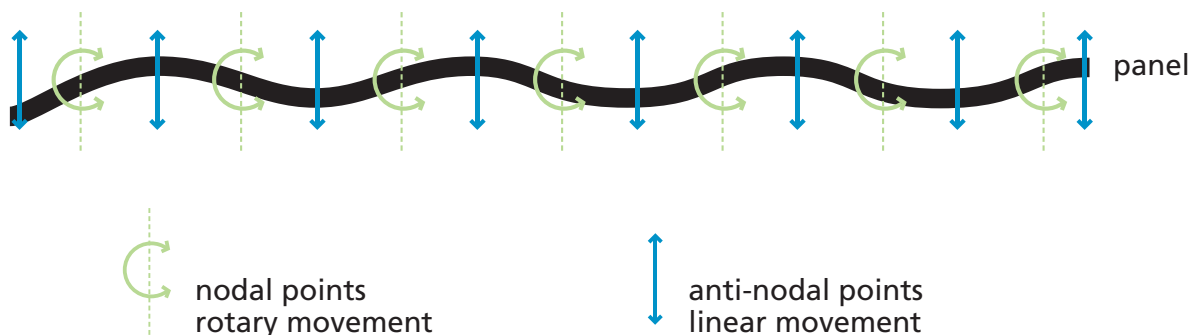
Ringmat Vivacity AR comprises a combination of controlled resonance panels, domes and Statfeet that are placed under the hi-fi and home cinema equipment. Together, they dissipate the vibration before it has a chance to corrupt the signal. What you get is a cleaner sound and a better picture.

### The science of Ringmat Vivacity AR

The functionality of Ringmat Vivacity AR is based on four unique principles: use of nodal points where the equipment is supported, impedance matching within the solution itself, the observance of the polarity of the panel materials and the use of Ringmat proprietary anti-resonance designs.

### Sweeping it clean

During play, resonance causes vibration in the support structures of the hi-fi or home cinema equipment. This vibration behaves in two different ways across the surface: at most points, it shakes the surface up and down (anti-nodal points); at certain other points, it causes a rotational movement (nodal points). Through identifying the locations of these points, using NXT# patented Distributed Mode Loudspeaker technology, Ringmat Vivacity AR is able to tackle this vibration.



Ringmat Vivacity AR ensures that the principal points where the equipment meets the support structure are nodal. In this way, it simply 'sweeps' the vibration aside instead of allowing vibration to cause the equipment to 'jump' up and down. The sound and picture stay clean and unaffected.

### Mass and impedance matching

Ringmat Vivacity AR uniquely avoids the problems encountered with traditional heavy and lightweight platforms.

With the two panel versions, the Vivacity AR foam panel immediately under the equipment is exceptionally light and rigid and has a lower mass than the equipment resting on it. This enables the contact points to become nodal to an extent, even if they are not normally nodal areas. The Vivacity AR hard foam panel below has a higher mass, supported by mini cork domes at its nodal points, while a thin polycarbonate sheet between the two panels has a geometric pattern which further breaks up resonant modes.

All Vivacity AR panels are specially designed to enhance 'impedance matching'. This ensures that, in the whole structure, all vibrational and resonance based energies are largely dissipated into the air and the quality of the original sound and image is preserved.

### Further controlled resonance measures

The concept of Vivacity AR was borne as a result of several years collaboration between QR Design and DNM Design, the creators of RINGMAT. Many of the unique controlled resonance features that have made the RINGMAT and STATMAT products so effective will be found within Vivacity AR.

### Right side up

All flat materials have a natural polarity. If placed incorrectly upside down, the quality of the output will be seriously affected. Ringmat Vivacity AR panels are designed to be used either side up, allowing their natural polarity to be correctly used. They can even correct the adverse polarity effects of existing shelves or other surfaces.

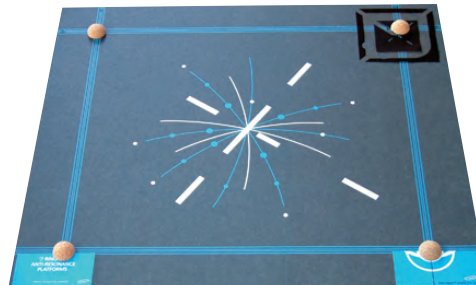
## COMPONENTS

Ringmat Vivacity AR comprises a series of related support panels\* and domes, each playing an essential role in combating resonance. The solution's unique, modular design enables users to acquire the complete system at once or to build up performance in stages.

### Dark Vivacity Panel – standard and fireworks versions

The Dark Vivacity Panel lies at the heart of the concept and is the prime support platform. This 13mm rigid hard foam panel features a lightweight core with millions of air-filled bubbles, sandwiched between two layers of black wood fibre veneer.

The Fireworks version is screen-printed and has an even more explosive performance.



### Vivacity Topper Panel – standard and fireworks versions

The Topper Panel is a 5mm intermediate surface of the same hard foam material used for the Dark Vivacity Panel. It works to redistribute the weight of the equipment onto nodal points, thereby reducing resonance within the mass.

As before, the Fireworks version has an even more explosive performance.

### Vivacity Sparkle Sheet

The Sparkle Sheet is a special low frequency, low resonance grade of clear polycarbonate. It has a number of shapes cut out in a special geometric pattern to break up resonant modes, including those of adjacent panels, adding 'sparkle' to the sound.

### Mini Domes

Made of compressed cork, the Mini Domes dissipate resonance and avoid the problems of yaw. Each set contains one denser, blue speckled Dome, where the cork has a synthetic rubber binder. This denser Dome acts as the anchor point, controlling any movement on the Domes.

### Statfeet

Statfeet are 89mm squares of conductive polypropylene film, coated with specially formulated inks, to form powerful, yet passive, electrical devices. Their unique design, using Ringmat Developments' proprietary STATMAT® technology, breaks up the interference from electromagnetic fields that build up around components from their surroundings.

### Positioning Guide

The Positioning Guide is a valuable tool in placing the Mini Domes under the respective Panels, as near as possible to their most effective positions.

### Placement Guide

The Placement Guide helps in the placement of the Dark Vivacity Panel on the Mini Domes so that they support the Panel under the nodal lines.

### AV Vivacity Panel

The AV Vivacity Panel is a modified version of the standard Vivacity Topper Panel specifically for equipment shelves that do not leave enough space for the Dark Vivacity Panel and Mini Domes. The Panel's clear polyurethane feet replace the Mini Domes, giving an overall thickness of about 8mm.

### Ringmat Feet and Domes

Not included as standard in the Vivacity AR packages, Ringmat Feet and Domes make big improvements to sound and picture quality. Ringmat Feet are used under the equipment's own feet on top of the Vivacity Panels. Small and large Ringmat Domes are preferable to the equipment's own supplied feet and can be used between the equipment and Ringmat Feet for optimum sound quality using Vivacity AR panels.

\*All standard sized Panels measure 445mm wide x 393mm deep. First-release panels for Ringmat Vivacity AR work with weights up to 34.5kg. Later releases will address heavier items of equipment and the need for other panel sizes. All sizes quoted are nominal.

## PACKAGES

Ringmat Vivacity AR comes as a range of starter packs for one item of equipment.

There are additional Panels for additional equipment and various upgrade combinations to cater to the needs of each user, from the home enthusiast to the sound professional.

There are two versions of the Vivacity AR Starter Pack, the 'Standard' and the 'Fireworks', according to the version of the Dark Vivacity Panel required. Likewise, there are two versions of most of the other Packs, according to whether the 'Standard' or 'Fireworks' versions of the relevant Panels are required.

The Vivacity Topper Panel Upgrade Pack is for upgrading the Vivacity AR Starter Pack, or where it is intended to mix the Dark Vivacity Panel and the Vivacity Topper Panel between 'Standard' and 'Fireworks' versions.

Accordingly, once the Starter Pack has been acquired and upgraded for the first item of equipment, users of the Two Panel versions for other equipment should opt for the Additional Two Panel Pack.

Adding Additional Dark Vivacity Panels to the Two Panel versions increase the degree of decoupling and thereby the sound quality.

There is also a Starter Pack for the AV Vivacity Panel.

**Vivacity AR Starter Pack** – overall thickness about 23mm

Contains an Installation Guide, 1 Dark Vivacity Panel, 4 Mini Domes, 1 Statfoot, 1 Positioning Guide and 1 Placement Guide  
\* Standard Version  
\* Fireworks Version

**Additional Dark Vivacity Panel Pack** – overall thickness about 23mm

Contains 1 Dark Vivacity Panel, 4 Mini Domes and one Statfoot  
\* Standard Version  
\* Fireworks Version

**Vivacity Base Panel** – overall thickness about 13mm

Contains 1 Dark Vivacity Panel but no Mini Domes  
\* Standard Version  
\* Fireworks Version

**Vivacity Topper Panel Upgrade Pack** – overall thickness about 5mm

Contains 1 Vivacity Topper Panel and 1 Vivacity Sparkle Sheet  
\* Standard Version  
\* Fireworks Version

**Additional Two Panel Pack** – overall thickness about 28mm

Contains 1 Dark Vivacity Panel, 1 Vivacity Topper Panel, 1 Vivacity Sparkle Sheet, 4 Mini Domes and 1 Statfoot  
\* Standard Version  
\* Fireworks Version

**AV Vivacity Starter Pack** – overall thickness about 8mm

Contains 1 AV Vivacity Panel, an Installation Guide and 1 Statfoot

**AV Vivacity Panel Pack** – overall thickness about 8mm

Contains 1 AV Vivacity Panel and 1 Statfoot

Ringmat Feet and Ringmat Domes are also available separately.

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 **RINGMAT DEVELOPMENTS**

PO Box 200 Brentwood Essex CM15 9FB GB  
Visit [www.ringmat.com](http://www.ringmat.com) or call us on 01277 200210