

# modulus

"Describing the sound of the Modulus system is not easy, at least not in any universally understood terms. It was balanced, smooth, remarkably un-colored, with the clarity and freedom from edginess that comes with a flat tweeter response to beyond the limit of audibility. The sound stage was excellent, with the sources seemingly disassociated from the Modulus speakers on their pedestals. The sound seemed to fill the front of the room quite thoroughly, extending well beyond the speakers themselves. The subwoofer was never audibly localizable, and its output was so well integrated with the satellites' output that one could easily overlook its presence and merely assume that all the sound miraculously came from the Modulus satellites alone. That would not be an unreasonable conclusion given the remarkable performance of these handsome little speakers.

Infinity says that it has invested a great deal of time and money in the development of the Modulus system and the results confirm the success of those efforts. It is really an impressive achievement." ■

—Stereo Review  
June '90

## MODULUS SATELLITES

## MODULUS SUBWOOFER

FREQUENCY RESPONSE	80Hz-45kHz $\pm$ 2 dB	FREQUENCY RESPONSE	22-200 Hz $\pm$ 3 dB
CROSSOVER FREQUENCY	4kHz	CROSSOVER FREQUENCY	High pass: 22Hz and 35Hz, 12 dB/octave
CROSSOVER TYPE	Fourth order Linkwitz-Riley		Low pass: 50-200 Hz, continuously variable, 12 dB/octave
SENSITIVITY	88 dB @ 2.8 volts, 1 meter	DRIVER	6 dB/octave passive high filter for Modulus satellites
NOMINAL IMPEDANCE	5 ohms		12" IMG™ woofer
POWER RATING	25-125 watts RMS	SERVO CONTROL	Motional feedback, Accelerometer-controlled
DRIVERS	5.5" (14 cm) IMG™ woofer, EMIT k™ tweeter	CONTROLS	Low frequency level High pass filter Low pass filter Continuously variable phase, 0-180°
		AMPLIFIER POWER	250 watts RMS
DIMENSIONS	12" H x 7" W x 10 7/8" D (30.5 x 17.8 x 27 cm)	DIMENSIONS	19" H x 17 1/2" W x 17 1/2" D (48.3 x 44.4 x 44.4 cm)

*Because Infinity constantly strives to improve existing products, specifications are subject to change without notice.  
Infinity Modulus speakers carry a five year transferable Parts and Labor Limited Warranty (one year Limited Warranty for Modulus electronics).  
For details, see the complete Warranty packed with each Modulus component, or consult your Infinity dealer.*



We get you back to what it's all about. Music.

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modulus

Infinity





In any work of art, inspired attention to imperceptible details distinguishes the true masterpiece.

Nowhere is this any more true than in Modulus.<sup>™</sup> A new concept speaker for the 1990's.

From its ingenious driver technology to its meticulously sculptured cabinet to the very materials employed in its mounting hardware, nothing has been neglected. Nothing.

Modulus grew out of our more than two-decade obsession with the sound of live music. (The same obsession that led us to build the 7½ foot, \$60,000 Infinity Reference Standard V, the speaker regarded as the most sonically-accurate ever made, from which much of Modulus' technology is derived.)

Modulus also grew out of changing lifestyles and new living spaces. It is a statement of the 90's. And of our commitment to quality over quantity where space is at a premium.

It is a sonic and visual enhancement of the listening environment.

Modulus. The discovery begins right now.



## You can hear the future.

What you're looking at is the state of loudspeaker science pushed to its limits: the signature profile of the Modulus loudspeaker.

Albeit unconventional, it displays the brilliant thinking that's essential to attaining the highest degree of sonic accuracy in a loudspeaker.

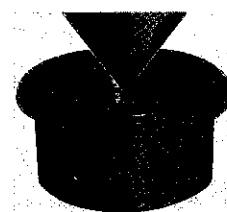
This unique stepped baffle is designed to maintain the very subtle time-relationship of the high frequencies to the low frequencies as they reach the ear. This *time-alignment* restores the very subtle cues which tell the ear where every instrument is in space, front to back, side to side, even top to bottom.

Not only is the three-dimensional soundstage preserved, but this stepped contour also prevents the reflection of sound off the speaker enclosure—just as the four-sided wrap-around grille has been designed to project the sound cleanly out from all angles. Free of the musical distortion caused by conventional cabinetry.

## A cabinet so solid, it's virtually transparent.

Beneath Modulus' elegant, scratch-resistant, ultra-high-gloss black or white finish lies a world of new technology, invisible to the eye, yet critical to the sound. The cabinet walls are constructed of extremely stiff, ultra-high-density multi-fiber panels laminated to an acoustically-absorptive, visco-elastic substrate. Together, these bonded materials damp out cabinet resonance, even at the lowest frequencies.

And below, resonance-terminating spiked aluminum



*Unique iso-tip feet interlock with special receptacles in the pedestal and wall bracket to provide optimum acoustic isolation.*

“iso-tip” feet (triangulated for even weight distribution) provide superior isolation between the speaker cabinet and the rest of the world.

The net effect of this almost-fanatic attention to detail is the aural illusion of a single sound source rigidly suspended in free air. In other words, the creation of an intimate and unimpeded relationship between your ears and the music.

## Getting so much from so little.

Perhaps the most startling thing about the sound of Modulus is that it comes from a speaker merely 12" x 7" x 10<sup>5/8</sup>".

That takes no small amount of technology. Indeed, its drivers were adapted from some of Infinity's largest state-of-the-art speakers.

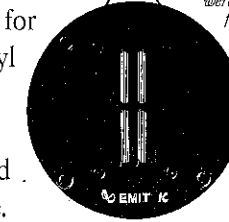
The 5<sup>1/2</sup>" IMG™ (injection-molded graphite) woofer has the highest stiffness-to-mass ratio of any cone. It can respond to the savage attack of a Fender bass with nearly the same speed and precision as your own ear drums (where the same principle of stiffness-to-mass applies).

Still further refinements take the

Modulus woofer to the fringe of driver performance: a die-cast aluminum basket for increased structural integrity; an inverted dust-cap for greater cone rigidity; a butyl surround to dampen standing waves; and a curvilinear cone shape for longer throw and extended frequency response.

No less remarkable is Infinity's renowned EMIT *k*™ tweeter—an electromagnetically-driven push/pull planar driver capable of reproducing the translucent shimmer of a Zildjian cymbal with breathtaking intimacy.

Its planar design, utilizing an ultra-low-mass kapton diaphragm suspended between opposing arrays of powerful neodymium magnets, is nothing less than high science. With a frequency response extending to 45kHz, its performance represents the truest possible analog of the original musical waveform.



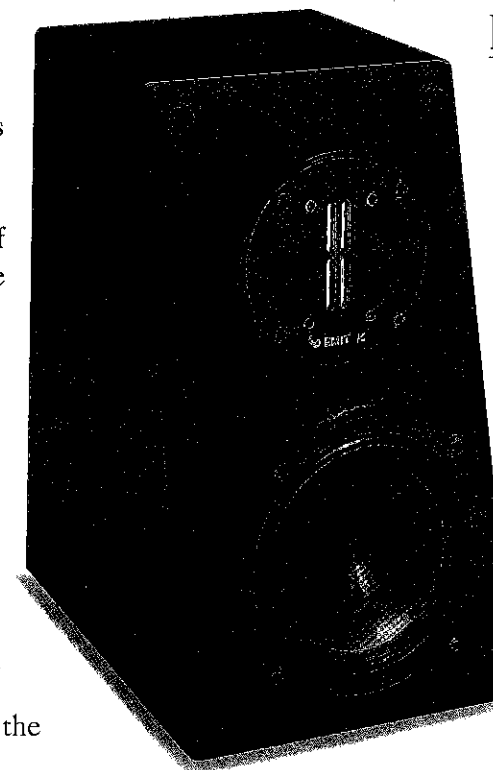
*Cabinet influence on the sound is so minimal, the EMIT *k* tweeter measures the same acoustically as if it were suspended in free air.*

## If it's not one thing, it's another:

With all its breakthrough speaker technology, Modulus is much more than a compact speaker. More, even, than a showcase of masterful craftsmanship and sophisticated styling.

Modulus is a concept. One that expands with your imagination. It can be any kind of speaker system you want, from bookshelf speakers to studio monitors to a pedestal-mounted satellite/subwoofer system. It only depends on how you see Modulus integrating sonically and architecturally within your environment.

The decision is yours alone to make. And Modulus, with its optional modular components, can help you make it.



## The Modulus Subwoofer:

The addition of the Modulus Subwoofer converts your speaker configuration into a formidable, state-of-the-art satellite system, powered by a built-in 250-watt amplifier.

The Modulus Subwoofer extends bass to an air-rippling 22Hz via its IRS servo-controlled 12" IMG woofer. The servo-control system continuously compares the signal input to the driver output and instantaneously corrects the signal to cancel distortion.

The subwoofer control box includes an adjustable bass level control, high-pass filter, continuously-variable crossover control, and a continuously-variable phase control, allowing the user the greatest possible sonic flexibility.

Supported on four iso-tips, the 19" high, elegant black or white high-gloss cabinet is handsome enough to be displayed prominently. But because very low frequencies are omnidirectional, you may also choose to set it in a corner where it is visually unobtrusive. So you can redefine your musical perspective without rearranging your room.

## The Modulus Pedestal.

With each speaker suspended 25" off the ground, Modulus becomes a pedestal-mounted system. The Infinity-designed Modulus Pedestal represents the highest technology in loudspeaker isolation. The Modulus speaker sets atop an acoustically-damped mounting plate in which butyl cups receive the speaker's iso-tip



*When filled with lead shot or sand, Modulus' pedestal riser acts like a shock absorber for sound, dissipating kinetic energy and converting it into heat.*

feet, further reducing the transmission of resonance. The die-cast aluminum pedestal shaft is hollow, designed to be filled with lead shot or sand to absorb and dissipate kinetic energy. And to isolate the shaft from the floor, the pedestal base is supported on four individually adjustable, resonance-terminating iso-tip feet.

And of course, the pedestals enhance the striking image of the Modulus speakers.

## The Modulus wall bracket.

You may choose to configure Modulus as "studio" monitors, mounted to the wall. An acoustically-isolated wall bracket/mounting plate assembly accommodates that vision. The mounting plate — the same plate that tops the pedestal system — can be rotated laterally on the die-cast aluminum wall bracket for optimum speaker positioning.

Wall mount.

Pedestal mount. Bookshelf placement. No matter what mounting option your tastes encourage, Infinity's advanced technology provides maximum acoustic isolation from the surrounding environment.



*The die-cast, acoustically-damped mounting plate isolates the Modulus speaker from either the wall bracket or pedestal column.*

## Welcome to the beginning.

Infinity engineers conceived Modulus as a speaker concept that will continue to grow.

Even now, new components are on the drawing board; ways to give Modulus owners even greater flexibility and new levels of sonic enjoyment.

The concept of Modulus is a constantly evolving expression of the philosophy behind all Infinity speakers: that the search for musical perfection will never end.

