



BETA  
SERIES

 **Infinity**  
TECHNOLOGY • PERFORMANCE • DESIGN



#### INTRODUCING INFINITY BETA™

More often than not, great loudspeakers are products of evolution, engineered to improve on the best of what's come before. With the Beta Series, Infinity offers a powerful and exquisitely beautiful new case in point.

A direct technological descendant of Infinity's acclaimed Prelude™ MTS Series, Beta shares a heritage of excellence dating back more than 35 years. The series imparts exceptional fidelity and realism to music and movies, delivering clean, resonance-free high and midrange frequencies with forceful dynamic bass, bringing your favorite home entertainment vividly to life.

*It's as if our walls just fade away and we're in another time and place.*



A New Generation, Born to Excel.

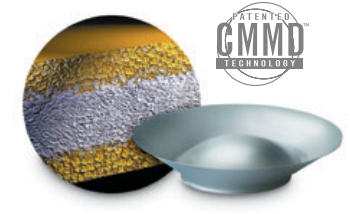


All the Beta speakers\* are magnetically shielded for safe placement near your TV.

Perforated metal grilles give Beta a fresh and striking appearance.



Prelude™ MTS, Infinity's flagship system.



Magnified cross section of CMMD alumina layers.



Ultrathick, contoured baffles provide a rigid, stable platform for the drivers while simultaneously minimizing unwanted edge diffractions off the baffle.

**A LEGEND IN ITS OWN RIGHT**

Featuring the breakthrough Ceramic Metal Matrix Diaphragm (CMMD™) technology developed for the flagship Prelude™ MTS and being the first Infinity speakers to use the new Constant Acoustic Impedance™ (CAI™) waveguide technology, Beta represents Infinity's latest, most innovative thinking, combined with Infinity's advanced manufacturing techniques.

Equally adept at reproducing the thrills of an over-the-top action movie or the nuances of an acoustical guitar solo, this is a loudspeaker series engineered to be wholly captivating.

**ADVANCED CERAMICS 101**

**Ceramic Metal Matrix Diaphragms.**

Infinity's patented Ceramic Metal Matrix Diaphragms reveal all the nuances of today's music and film recordings by virtually eliminating unwanted resonances. The key is a ceramic compound called alumina. Three times as stiff as titanium – and 85 times stiffer than felted paper – alumina is bonded to a metallic substrate to create a three-layer sandwich. CMMD adds bass impact to each Beta model, and delivers open, detailed and clean mid and high frequencies.

**IDEAL FOR SACD & DVD-AUDIO**

**Extended High-Frequency Response.**

Infinity's newly developed CMMD tweeter extends the frequency response beyond 40kHz, resulting in remarkably clear high frequencies, yielding exceptional fidelity even when reproducing today's demanding digital, high-resolution program sources such as SACD and DVD-Audio.

**A GUIDE TO BETTER SOUND**

Loudspeaker designs sometimes include acoustical waveguides to improve on- and off-axis high-frequency response. But Beta Series speakers feature Infinity's patent-pending CAI waveguide, which delivers several significant additional benefits and further improves performance over other waveguide designs.

\* with the exception of the subwoofers





With the Constant Acoustic Impedance (CAI) waveguide, the full effect of the CMD tweeter can be realized, resulting in cleaner, more uniform sound throughout more of your listening environment.

Constant Acoustic Impedance increases the sensitivity of the high-frequency driver, creating more dynamic headroom, thus enabling a seamless sonic transition between the tweeter and the lower-frequency transducers in both two- and three-way systems.

This helps to ensure uniform frequency response across the entire listening room, greatly broadening the optimum listening area. In addition, the CAI waveguide allows for a simpler, more effective crossover design; the ultimate result is a distinctly pure, accurate sound unique to Beta. Remember: You heard it here first.

**BETA HCS: EXPERIENCE THE ULTIMATE IN SURROUND EXPERIENCE**

With optimally voice-matched satellites based on the exceptional Infinity Beta Series, the Infinity Beta HCS Home Cinema System delivers the chills and thrills of the finest cinema right to your living room – but without the noisy audience, parking problems and waiting in line.



Selectable monopole/bipole/dipole settings.



The Beta ES250 is available in white or black.

**BETA ES250 EFFECTS SPEAKER**

The incredibly clever Beta ES250 wall-mountable surround-effects speaker offers selectable monopole, bipole or dipole configurations for optimum surround configuration in any home theater system, and with any film or music recording. It even allows you to reproduce two discrete channels from one loud-speaker. Perfect for upgrading to 7 channels with a minimum of fuss.



Add a Beta SW-12 or Beta SW-10 powered subwoofer for incredible music and home theater realism.

**THE BOTTOM LINE**

Deep, realistic bass is an essential element of the cinematic experience. And it's just as essential in reproducing live musical performances. Infinity pays homage to the power of bass with the Beta SW-10 and Beta SW-12 powered subwoofers.

Offering high or very high power, the Beta SW-12 even includes Infinity's proprietary Bass Optimization System™ – the choice is yours. (There are no wrong answers here.)

**YOUR IDEAL SYSTEM IS READY**

Black ash? Beech? Cherry? A bookshelf system for the bedroom or office? A music system for the den or living room? A complete home theater system (popcorn machine not included) with a dedicated center channel speaker, subwoofer and surrounds?

You tell us. Beta is Infinity's newest expression of excellence – an endlessly versatile and exceptionally capable invitation to innovation.



Beech



Cherry



Black Ash



Crossover design can be optimized with shortened signal paths, yielding cleaner sound reproduction.



All Beta models utilize heavy-duty, gold-plated binding posts to ensure long-term signal transfer and easy connection to any system. The Beta 40 and Beta 50 are also bi-wirable.



Infinity's sophisticated 72-point frequency response measurement allows for accurate analysis of the speaker's total performance before the listening tests even begin.









The Infinity Beta HCS system is available as an all-in-one home theater system





## BETA SYSTEM SPECIFICATIONS.

						
	Beta 10	Beta 20	Beta 40	Beta 50	Beta C250	Beta C360
Frequency Ranges	55Hz – 40kHz (-6dB)	52Hz – 40kHz (-6dB)	40Hz – 40kHz (-6dB)	30Hz – 40kHz (-6dB)	50Hz – 40kHz (-6dB)	40Hz – 40kHz (-6dB)
Recommended Amplifier Power Range	10 – 125 Watts	10 – 150 Watts	10 – 200 Watts	10 – 250 Watts	10 – 150 Watts	10 – 200 Watts
Sensitivity (2.83V @ 1 meter)	88dB	90dB	91dB	91dB	90dB	91dB
Nominal Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
Crossover Frequency	2.8kHz; 24dB/octave	2.4kHz; 24dB/octave	600Hz, 3.2kHz; 24dB/octave	600Hz, 3.3kHz; 24dB/octave	2.4kHz; 24dB/octave	500Hz, 3.2kHz; 24dB/octave
Low-Frequency Driver(s)	130mm (5") CMMD™, magnetically shielded	165mm (6-1/2") CMMD™, magnetically shielded	Dual 165mm (6-1/2") CMMD™, magnetically shielded	Dual 200mm (8") CMMD™, magnetically shielded	Dual 130mm (5") CMMD™, magnetically shielded	Dual 165mm (6-1/2") CMMD™, magnetically shielded
Mid-Frequency Driver	NA	NA	130mm (5") CMMD, magnetically shielded	130mm (5") CMMD, magnetically shielded	NA	100mm (4") CMMD, magnetically shielded
High-Frequency Driver	25mm (1") CMMD, magnetically shielded	25mm (1") CMMD, magnetically shielded	25mm (1") CMMD, magnetically shielded	25mm (1") CMMD, magnetically shielded	25mm (1") CMMD, magnetically shielded	25mm (1") CMMD, magnetically shielded
Dimensions (H x W x D) (with grille)	300mm x 190mm x 290mm (11-13/16" x 7-1/2" x 11-7/16")	350mm x 225mm x 330mm (13-3/4" x 8-7/8" x 13")	950mm x 250mm x 333mm (37" x 9-13/16" x 13-1/8")	1050mm x 265mm x 372mm (41-5/16" x 10-7/16" x 14-11/16")	170mm x 430mm x 212mm (6-11/16" x 17" x 8-3/8")	215mm x 650mm x 298mm (8-1/2" x 25-5/8" x 11-3/4")
Weight	6.4kg (14 lb)	9.4kg (20.7 lb)	22.8kg (50.2 lb)	28.4kg (62.5 lb)	7.3kg (16 lb)	15.7kg (34.5 lb)



	Beta ES250	Beta HCS Home Theater System	
	Dipole Surround Speaker	Beta HCS 2-Way Sat	Beta HCS 2-Way Center
Frequency Range	50Hz – 40kHz (-6dB)	64 Hz – 40 kHz (±6dB)	70 Hz – 40 kHz (±6dB)
Recommended Amplifier Power Range	10 – 150 watts	10 – 100 watts	10 – 100 watts
Sensitivity (2.83V @ 1 meter)	87dB	86dB	87dB
Nominal Impedance	8Ω	8Ω	8Ω
Crossover Frequency	2.8kHz; 12dB/octave	2800Hz, 24dB/octave	2800Hz, 24dB/octave
Low-Frequency Driver(s)	Dual 130mm (5") CMMD™	100mm (4") CMMD™, magnetically shielded	Dual 100mm (4") CMMD™, magnetically shielded
High-Frequency Driver	Dual 25mm (1") CMMD	19mm (3/4") CMMD, magnetically shielded	19mm (3/4") CMMD, magnetically shielded
Dimensions (H x W x D) (with grille)	350mm x 300mm x 175mm (13-3/4" x 11-13/16" x 6-7/8")	300mm x 156mm x 190mm (11-13/16" x 6-1/8" x 7-1/2")	156mm x 372mm x 197mm (6-1/8" x 14-5/8" x 7-3/4")
Weight	5.5kg (12.1 lb)	3.6kg (7.9 lb)	5.9kg (13 lb)

## BETA POWERED SUBWOOFERS

Add an Infinity Sub to Maximize Bass Impact and Realism.



	Beta HCS Sub (Not sold separately)	Beta SW-10	Beta SW-12
Frequency Response	35Hz – 150Hz (±3dB)	30Hz – 150Hz (±3dB)	28Hz – 150Hz (±3dB)
Maximum Amplifier Output	100 watts RMS	150 watts RMS (20Hz – 150Hz with no more than 0.1% THD)	500 watts RMS
Crossover Frequencies	50Hz – 150Hz, 24dB/octave, continuously variable	50Hz – 150Hz, 24dB/octave, continuously variable	50Hz – 150Hz, 24dB/octave, continuously variable
Driver	200mm (8") CMMD™	250mm (10") CMMD™	305mm (12") CMMD™
Dimensions (H x W x D)	400mm x 305mm x 429mm (15-3/4" x 12" x 16-7/8")	400mm x 335mm x 375mm (15-3/4" x 13-3/16" x 14-3/4")	425mm x 378mm x 505mm (16-3/4" x 14-7/8" x 19-7/8")
Weight	15.3kg (33.7 lb)	16.7kg (37 lb)	20.5kg (45 lb)