

how to paint the perfect soundstage



THE VIVALDI

Audio Artistry
painting your world with sound

The Vivaldi is the latest reference-quality loudspeaker for component audio systems to come from the experienced technical pioneers of Audio Artistry. It sets a new acoustic performance standard for sound reproduction in a wide range of home listening environments.

The Vivaldi uses the well known dipole design concept in a novel way. It is a moderately directional loudspeaker over all of its frequency range. It illuminates the listening room with sound which at any angle is almost perfectly matched to the on-axis output, except lower in level. This not only ensures a smooth spectral balance of the reverberant sound field, it quite literally removes the inherent acoustic contributions of the listening environment.

Painting a perfect soundstage begins with the bold strokes of creative audio engineering mastered by Audio Artistry and their latest creation, the Vivaldi.

artists in residence

The design of the Vivaldi is the culmination of more than twenty years of audio experience and experimentation with various loudspeaker concepts led by Audio Artistry's Siegfried Linkwitz. He is best known as the creator of the "Linkwitz-Riley crossover" filter, the accepted standard in high performance loudspeakers. Although an important ingredient to the Vivaldi, the crossover is only one in a long list of breakthrough design elements.

The Vivaldi is a truly compact full-range dipole loudspeaker. It avoids the non-uniform, off-axis frequency response behavior of large radiator surfaces and their critical listening position. The Vivaldi's much smaller size, compared to conventional electrostatic or magnetic planar dipole speakers, is due to the use of high quality electrodynamic drive units. They are capable of larger excursions and much higher dynamics. In fact, the Vivaldi carries the dipole concept to the woofer frequencies and thereby achieves a new naturalness in bass reproduction.

state of the original art

The final test of any loudspeaker is the quality of its sound in your listening room. The Vivaldi's dipole behavior diminishes the room's sonic signature and its masking effect upon subtle details in a recording. A dipole delivers more sound towards the listening position and less to other parts of the room compared to a conventional box type loudspeaker. As a result, only one-third of the acoustic sound output is available to excite your room's resonances, its reflections and reverberation. Therefore, the Vivaldi removes one of the most variable and problematic sources of distortion in home audio, the listening environment. You simply hear more of the recording and less of the room.

The dipole action is achieved for the mid frequency range by mounting the two 8" drivers of the Vivaldi on an open baffle. Thus, they radiate unimpeded front and back. This avoids any cabinet induced sound colorations and the sound is free from boxiness.

The dipole concept is also used for the woofer frequency range. Two 12" drivers in each speaker cabinet radiate front and back into the room. This form of sound propagation reduces the number and strength of standing waves that often cause an uneven low frequency response. The resulting bass reproduction is unusually life like.

At high frequencies, a specially selected 1" dome tweeter provides a wider and more uniform dispersion than can be obtained from a large panel or long ribbon type dipole. This avoids the problem of confining you to one small listening location, commonly referred to as "the sweet spot".

Listening to the quality of sound reproduction from the Vivaldi is a whole new experience in realism. The soundstage is wide and high. As you close your eyes, you feel transported to the place of the recording. Each musician seems to float in space before your eyes. You feel you can reach out and touch them.

magnum opus

The highest quality materials have been used in the construction of the Vivaldi, with attention paid to every detail. The sleek, wood trimmed cabinets enrich the decor of your room.

The Vivaldi is a loudspeaker for music lovers everywhere. It will paint your room with acoustic energy, rhythm, timbre and air. The outstanding acoustical qualities, its appearance and sensible size allow you to enjoy music totally.

Discover the full power of sonic expressionism for yourself by calling Audio Artistry for the Vivaldi dealer nearest you. And begin painting your world with sound.

specifications

Frequency response	40 Hz to 20 kHz, +/- 2.5 dB
Sensitivity	86 dB at 1 m, 2.83 V
Impedance	8 ohm nominal, 3 ohm min. at 60 Hz
Size	50" h x 13.5" w x 12" d (1.27 x 0.34 x 0.30 m)
Weight	70 lbs (32 kg)
Radiation pattern	dipole below 1500 Hz, forward firing above 1500 Hz
Room placement	2.5 ft (0.75 m) minimum distance to adjacent walls
Listening distance	8 - 18 ft (2.4 - 5.4 m)
Room size	250 - 500 sqft (22 - 44 sqm)
Amplifier power	100 W recommended
Amplifier damping factor	greater than 20 from 20 Hz to 200 Hz
Amplifier output impedance	less than 0.4 ohm from 20 Hz to 200 Hz

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