

how to paint the perfect soundstage



## THE DVORAK

*The Dvorak 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 and challenges any loudspeaker available today.*

*The Dvorak 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 Dvorak.*

*Audio Artistry*

painting your world with sound



## artists in residence

The design of the Dvorak 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 Dvorak, the crossover is only one in a long list of breakthrough design elements.

The Dvorak is the first truly compact dipole loudspeaker. It avoids the non-uniform, off-axis frequency response behavior of large radiator surfaces and their critical listening position. The Dvorak'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 Dvorak carries the dipole concept to the subwoofer frequencies and thereby achieves a new naturalness in bass reproduction.



## state of the original art

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

The dipole action is achieved by mounting the two 8" midrange drivers of the Dvorak's Main speaker on an open baffle. Thus, they radiate unimpeded front and back. This avoids any boxiness and the sound is free from cabinet induced sound colorations.

The dipole concept is also used for the separate woofers. Two 12" drivers in each speaker radiate front and back into the room. This form of sound propagation reduces the number of standing waves that often cause an uneven low frequency response. Combined with the low distortion of the woofer, the resulting bass reproduction is very true to life.

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 a listener to one small listening position, commonly referred to as "the sweet spot."

The complete Dvorak loudspeaker system consists of two freestanding Main Units, two Woofers and an active electronic Crossover/Equalizer. The highest quality materials have been used in its construction, with attention paid to every detail. Two stereo amplifiers are required to drive the system.

For smaller rooms or where the full low frequency extension and output capability is not needed, the two Main speakers may be used by themselves. This configuration delivers an extremely satisfying listening experience when equalized at low frequencies with the Dvorak Crossover/Equalizer. The system can be easily upgraded by adding the two Woofers at a later time.

Listening to the quality of sound reproduction with either configuration of the Dvorak is a whole new experience in realism. The sound stage is wide and high. As you close your eyes, you feel transported to the place of recording, each musician forming a vivid image of vibrant, visceral sound.

## magnum opus

The Dvorak is a loudspeaker for music lovers everywhere. It will paint your room with acoustic energy, rhythm, timbre and air. Its sleek cabinets add unobtrusively to the decor of your room. The Dvorak's outstanding acoustical qualities, appearance, and sensible size allow you to enjoy music totally.

Discover the full power of sonic expressionism for yourself by calling Audio Artistry at (919) 319-1375 for the Dvorak dealer nearest you. And begin painting your world with sound.

## specifications

### Complete System

Frequency response	20 Hz to 25 kHz, +/- 2.5 dB <sup>1</sup>
Sensitivity	88 dB at 1 m, 2.83 V
Radiation pattern	dipole below 1500 Hz
Room size	250-600 sqft (22-55 sqm)
Listening distance	8-18 ft (2.4-5.4 m)
Placement	2.5 ft (0.75 m) minimum distance to adjacent walls for Main Unit. Woofer in plane of Main Unit, along side walls.

### Main Unit

Frequency range	100 Hz to 25 kHz The range of the Main Unit can be switched to start at 40 Hz with the woofer turned off.
Min. Amplifier power	35 W, vacuum tube; 100 W, solid state
Impedance	8 ohm nominal; 3.2 ohm min. at 2.1 kHz
Size	54" h x 12" w x 4.5" d (1.37 x 0.47 x 0.11 m)
Weight	50 lbs (22.7 kg)

### Woofer

Frequency range	20 Hz to 100 Hz
Amplifier power	25 W minimum
Impedance	6 ohm nominal, 5.5 ohm min.
Size	27.5" h x 11" w x 20" d (0.70 x 0.28 x 0.51 m)
Weight	55 lbs (25 kg)

### Crossover/Equalizer

Gain	unity, non inverting
Controls	
Normal/Video	40 Hz, -6 dB/oct highpass Off/On
Woofer Level	12 dB range with knob, 0/-12 dB with internal switch
Woofer Off	Main Unit equalized down to 40 Hz
Mute On	-20 dB either channel
Size	1.75" h x 17" w x 8" d (0.04 x 0.43 x 0.20 m)
Weight	10 lbs (4.5 kg)
Power supply	wall plug-in (USA) or plug-to-plug (International), 5W

1. For technical detail see "Development of a Compact Dipole Loudspeaker" by S. Linkwitz, presented at the 93rd Audio Engineering Society Convention, 1992 San Francisco, Preprint 3431. Audio Engineering Society Inc., 60 E. 42nd St., Rm 2520, New York, NY 10165-2520, USA. Tel. # 1-212-661-2355, Fax # 1-212-682-0477.

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