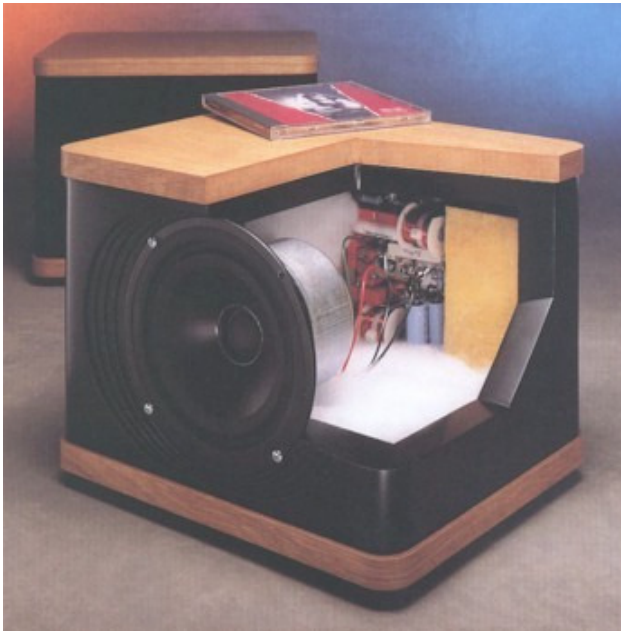


# VANDERSTEEN

## THE VCC-1



### **SPECIALIZED DESIGN**

With the availability of surround sound movies and multi-channel audio components, in-home entertainment has greatly expanded. Now, with the VCC-1 center speaker, you can have a high-fidelity home theater system where all the speakers combine to create an expansive panorama of sound that enhances your emotional involvement in the film experience.

The previous thinking, that three identical speakers across the front would provide a consistent soundfield, proved incorrect as our research revealed that the center

speaker is subject to unique demands and requires a highly specialized design.

The VCC-1 is the only center speaker that incorporates integral design solutions to the specific center channel requirements. It is immune to lobing response variations and performs consistently at any height or positioning. It is magnetically shielded and can be compensated for any environment. It maintains the critical phase integrity of the original sound and fully complements the main speakers. As an important part of a high-fidelity home theater system, the VCC-1 folds seamlessly into the multi-channel soundfield. Whether reproducing a whisper or a shout; a breeze or a blizzard, it creates a realistic and totally involving experience.

### **THE ALIGNED COAXIAL DRIVER**

The VCC-1's coaxial driver is a combination of a 6½ inch woofer and a 1 inch dome tweeter that share the same acoustical center and radiate as a single point source. The aligned driver is immune from multi-driver interference and the resulting response variations and phase irregularities that plague conventional center speakers. The VCC-1 maintains consistent sonic performance over an expansive listening area without hot spots, drop outs or timbre aberrations.

## **PHASE INTEGRITY**

The VCC-1's phase integrity complements Vandersteen and other phase-correct front speakers. The VCC-1's aligned woofer and tweeter are both connected in positive polarity through a first-order, transient-perfect crossover to maintain the original phase and time characteristics of voices, music, special effects and other film sounds.

When the VCC-1 is used with phase-correct main and surround speakers, it will contribute to the significant sonic and spatial benefits of a phase coherent home theater system. But regardless of the phase characteristics of the other speakers, the VCC-1's many advanced design features will yield superior consistency and enhanced system performance.

## **COMPENSATION**

Two levels of response compensation are incorporated into the VCC-1 to improve its integration with the main speakers and help counter the sonic effects of nearby walls or other surfaces. The primary compensation attenuates the bass response to enhance blending with the main speakers through the range where their response fully overlaps with the center channel. The secondary compensation, which is activated by a switch on the VCC-1's rear panel, provides additional compensation for situations where the center speaker is mounted in a wall unit or situated near a wall or other broad surface.

## **THE COMPONENTS**

The VCC-1's aligned, coaxial driver uses a rigid, acoustically inert cast-metal basket to improve cone movement accuracy and resist sympathetic resonances. The 6 1/2 inch woofer's filled polycone insures high internal stiffness while the 1-inch alloy dome tweeter is ferrofluid cooled to increase power handling and critically damped for smooth response. The driver is magnetically shielded so that it will not affect the picture on your television set.

The transient-perfect, first-order crossover's computer-grade components, including high-quality film capacitors in the signal path, are hand soldered on a double-sided, plated-through PC board for superior consistency and reliability. The input block is directly soldered onto the circuit board and the driver elements are connected with custom high-purity wire for maximum signal transfer.

The enclosure is constructed of 1 to 1 1/2 inch thick constrained-layer-dampened MDF, an advanced multiple-layer material that effectively damps vibration and controls cabinet resonances. The veneered top and bottom and the acoustically transparent grille cloth allow the VCC-1 to complement any decor. Information on the availability of custom finishes is available from your authorized Vandersteen dealer.

## DRIVER

- Magnetically shielded, aligned coaxial design with a 6 1/2" die-cast basket polycone woofer and a 1" critically-damped, alloy dome tweeter.

## SPECIFICATIONS

Even with advanced test equipment and complex computer analysis, loudspeaker design remains an incomplete science. No measurements currently available can fully convey the sound of a speaker or provide a meaningful comparison between differing designs.

The truth is in the listening.

- **CROSSOVER:**  
3500Hz. First-order, 6dB per octave.
- **PHASE:**  
The woofer and tweeter are both in positive phase.
- **IMPEDANCE:**  
8 ohms nominal.  
5 ohms minimum.
- **EFFICIENCY:**  
86dB at 1 meter with a 2.83 volt input.
- **RESPONSE:**  
80Hz to 21kHz +/- 3dB  
Proximity compensation off.  
The bass of the VCC-1 is bandpass limited.
- **AMPLIFICATION:**  
30 to 200 watts per channel into 8 ohms.  
High current is not required.
- **INPUT:**  
Heavy-duty terminal block.
- **MOUNTING:**  
T-nuts are built into the bottom.



- **AVAILABLE FINISHES:**  
All standard Vandersteen finishes and grille colors.  
See your dealer for custom finishes.
- **SIZE:**  
12 1/8" wide, 9 1/4" high, 10 1/8" deep.
- **WEIGHT:**  
23 pounds net, 27 pounds gross.
- **WARRANTY:**  
One year, extendable to five years by registering the free optional warranty within 30 days of purchase.

Specifications and design are subject to change without notice due to our continuous research program.

**Please contact Vandersteen Audio for complete product information and performance graphs.**