

Introducing the new

THIEL CS2.4

Coherent Source® Loudspeaker

THE NEW CS2.4 IS THE RESULT of THIEL's 25 years of extensive experience in designing high performance loudspeakers for home music and video sound systems. Since 1977, THIEL's innovative engineering has led to significant sonic improvements in each new model, resulting in speakers with the most outstanding performance in their class.

All-metal diaphragm drivers

The CS2.4 is a three-way system incorporating all THIEL-designed and built metal diaphragm drivers—a 1-inch dome tweeter, 3.5-inch midrange driver, and 8-inch woofer—along with a 7.5 x 11-inch passive radiator. Metal diaphragms provide much higher stiffness which eliminates diaphragm resonances in the operating range for very clear and open reproduction.

The CS2.4 drivers also use unusual short coil/long gap, copper-stabilized motor systems to dramatically reduce distortion. Coupled with the low resonance

diaphragms and very high quality electrical network components, a very high level of clarity and tonal accuracy is achieved.



CS2.4 coincident array



CS2.4 woofer



- *Very high performance sound from a medium-sized, 3-way floor-standing loudspeaker*

- *Specially designed coincident tweeter/midrange array eliminates the need for a high-frequency electrical crossover network*

- *Completely time and phase coherent for greater realism*

- *Ultra-low distortion short-coil, long gap, copper-stabilized driver motor systems*

- *Uniform, resistive load improves performance when used with lower power amplifiers*

- *Beautiful cabinetry, available in a variety of finishes, integrates well into any room.*

- *Provides great realism for both music and movies*

Completely Time and Phase Coherent

As with all THIEL loudspeakers, the CS2.4 is completely time and phase coherent for great sonic realism. THIEL's Coherent Source® technology eliminates both time and phase distortions that cause alterations in the reproduced musical waveforms of most loudspeakers. Eliminating these distortions results in enhanced realism, clarity, transparency and immediacy as well as improved imaging and soundstaging in both the lateral and depth perspectives.

Phase coherence is achieved by utilizing a sophisticated first-order electrical crossover system in conjunction with unusually wide bandwidth drivers. Time coherence in the CS2.4 is achieved by coincident tweeter/midrange driver mounting and the placement of the drivers on a baffle that is sloped at the correct angle so the sound energy from each reaches the listener at the same time.

Finished in the world's finest woods

The CS2.4 is available in a wide variety of exquisite, real-wood finishes finely crafted to enhance any home environment. We can custom stain, paint, or match a cabinet to your furniture. Our Painted Black option is even more affordable.



CS2.4 shown in Painted Black with optional Outrigger

New coincident driver array

The new CS2.4's most innovative design feature is a newly designed coincident tweeter/midrange driver where the two drivers' diaphragms share the *same* voice coil. This technique allows for the elimination of the midrange/tweeter section of the electrical crossover network as the drivers incorporate a *mechanical* crossover. Along with eliminating the need for two driver magnet structures, these reductions allow the CS2.4 to achieve a level of sonic performance normally reserved for more expensive speakers. The coincident array also uses very powerful neodymium magnets to improve efficiency and a redesigned magnet venting system to reduce unwanted resonances.

Electrical crossover

The CS2.4 electrical crossover network provides completely phase accurate transitions between drivers to preserve the recording's spatial information. The network utilizes polypropylene and custom-made polystyrene capacitors, and low-oxygen copper, air-core inductors for very low distortion.



Metal diaphragm, low distortion woofer

The CS2.4's 8-inch woofer uses a very low distortion short coil/long gap motor system, powered by a 2.5 pound magnet. The rigid aluminum diaphragm eliminates resonance coloration, a special copper pole sleeve reduces inductance distortion, and a heavy copper ring maintains an ultra-stable magnetic field. In combination with the 7.5 x 11-inch bass radiator, the woofer produces exceptionally clean bass down to 33Hz.

Cabinet construction

The CS2.4 cabinet is built with a 3-inch thick front baffle, 1-inch thick cabinet walls, and internal bracing for extreme rigidity to reduce unwanted vibration, improving clarity and spatial performance. The baffle's rounded edges reduce diffraction effects for improved tonal, spatial, and transient performance, and its sloped front correctly time aligns the tweeter with the woofer.

Ten-year warranty

THIEL loudspeakers are constructed with premium components and the highest quality workmanship. All THIEL speakers are backed with a 10-year warranty.

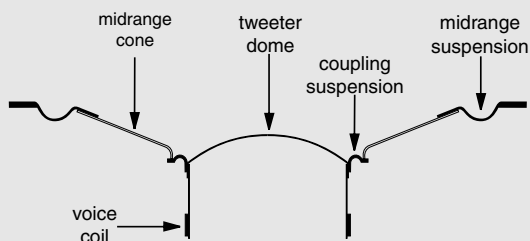
CS2.4 Specifications:

Bandwidth (-3 dB): 33 Hz-37 kHz **Amplitude Response:** 36 Hz-25 kHz ± 2 dB

Phase Response: Minimum $\pm 10^\circ$ **Sensitivity:** 87 dB@2.8 V-1m **Impedance:** 4 ohms (3.0 ohms minimum)

Recommended Power: 100-400 watts **Size:** 11" W x 14" D x 41.5" H **Weight:** 70 pounds

HOW IT WORKS: *The CS2.4's Innovative Tweeter/Midrange Driver Array*



The CS2.4 tweeter/midrange drivers are mounted coincidentally and share the same voice coil. The mechanical crossover is implemented by the coupling suspension between the two diaphragms. By eliminating the high frequency electrical crossover network and the second driver magnet, the CS2.4 achieves a level of sonic performance normally reserved for more expensive speakers. The coincident driver mounting results in perfect time coherence between the tweeter and midrange drivers for improved imaging and clarity, regardless of listener position.

THIEL

Ultimate Performance Loudspeakers

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