

Ohm COHERENT AUDIO MONITORS

Full-Room Stereo — Hear balanced stereo throughout the room.

Rotatable Tweeter — Allows user to optimize imaging and placement.

Flexible Placement — Adjusts for precise imaging in any room.

Free of Baffle Board Effects — No more megaphone sound.

Perfect Time and Phase Alignment — For sharp imaging.

Vibration-Free Cabinet — Heavily braced and damped enclosure.

High Power Ratings — For high power amplifiers and digital dynamics.

Acoustically-Coupled Subwoofer — For deep, clean, rich bass.

New! Sub Bass Activator™ — Controls woofer for more bass and less distortion.



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No more compromising on imaging. With conventional speakers, unless you are ready to redesign your home and decor around your audio or video speakers, you will almost certainly end up with your speakers in a less-than-ideal location. Now, with Ohm's new Coherent Audio Monitors, you can make the music fit your room without going broke on speakers or decorators.



Rotatable Egg Tweeter

Rather than compromise sound quality and imaging with a tweeter mounted conventionally in the front panel, Ohm mounted it on top of the cabinet, where it could be free of baffle-board diffraction, be phase coherent with the woofer and provide Full Room Stereo™.

Simply by rotating the Egg Tweeter, or "E.T.," you can focus the imaging to suit your taste and room layout. You can adjust the size and spread of the imaging "sweet spot." This is possible because the orientation of the ET controls the directivity of the high frequency sounds and hence the configuration of the sound stage.

No Megaphone Sound

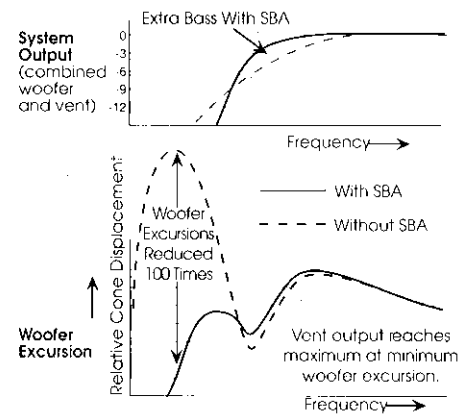
The front panel of a conventional speaker acts like a wide-angle megaphone and distorts the sound. Therefore, the top-mounting of the ET contributes greatly to the openness and airiness of these speakers. They have that firm, "boxless" sound that is characteristic of some of the more expensive European speakers, yet they retain the precise three-dimensional imaging for which Ohm is famous. Frameless grills and bevelled cabinet edges cut down unwanted cabinet reflections, and strategic bracing stiffens the extra heavy cabinets. Tufflex lining inside of the woofer's frame dampens unwanted reflections.

Sub Bass Activator™ Provides Deep, Rich Bass

Ohm's Sub Bass Activator extends bass response, increases power handling and reduces distortion in vented/acoustically-coupled speakers. SBA is basically a high-pass filter that is under-damped. This means that all the higher frequencies are passed without effect. However, there is a slight boost just below the point where the low frequencies normally begin to roll off.

The unwanted low frequencies (mostly infrasonic) are attenuated substantially, 12 dB per octave, and there is a slight rise in the output just above that frequency range. The cut-off response of the speaker now extends to a lower frequency. Above that frequency the rest of the bass and the midrange are unaffected. You get more bass out of a little cabinet than you normally would. When using Thiel/Small parameters, it is like using a sixth-order system with an equalizer, but the equalizer is passive.

The major benefit is a reduction in the woofer excursion below the cut-off response range of the speaker. In vented systems, normally the woofer and the vent run against each other and you get gross excursions with no output when a signal is driving them below that frequency. This causes the speaker to be driven into distortion and can often muddy up midrange, which is very audible.



By using the Sub Bass Activator, much higher powered amplifiers can often be driven because at the frequencies where there is no audible response there is no input to the driver. When implementing SBA, it is very important that the design engineer carefully tune the system's electrical filter and the mechanical filter to achieve the optimal response.

High Power Handling

Ohm speakers have always been highly regarded for their clean, deep bass response, and these are no exception. The long-throw polypropylene woofers are stiff and accurate for clean, low-distortion bass and high efficiency. By carefully tuning the mass of the acoustically-coupled subwoofer and the Sub Bass Activator (SBA — see above) circuitry, the Ohm 16 SBA, 32 SBA, and 42 SBA will deliver deep, clean, low-distortion bass, and have greater power handling capability than comparable speakers without SBA.

These speakers are rugged — built to insure that they will hold up in the field. The tough Ferrofluid-cooled, polycarbonate dome tweeter has a huge 2-inch magnet for high power handling and excellent efficiency. Polyswitch circuit breakers, and current sensitive protection circuits provide protection from accidental abuse.

The cabinets are finished in contemporary dark oak (PRO Group) or in black oak vinyl (CAM Group). The egg tweeters are Stealth Black. Coherent Audio Monitors are available only from select Ohm dealers.

Hi-Fi Critics Praise Design

Ovation — "Once in a while an audio component jumps right out of the box and into your heart. ... CAM 32's deliver an expansive stereo image of exceptional clarity.

Illinois Entertainer — "Ohm's CAM 16s assert themselves as truly unique. ..."

The New York Times — "...the effects attainable by judicious aiming of the tweeter give this speaker an uncommon degree of acoustic versatility. ...imaging can be achieved almost anywhere in the room. ...there's no telling ... that this is basically an inexpensive speaker."

Stereo Review — "The system works well. ...managed to sound larger (and considerably higher-priced) than it is. We suspect that few, if any, speakers of comparable size and price can match it, let alone outperform it."

High Fidelity — "...an attractive speaker at a modest price. As a realization of an intriguing design concept, it's even more attractive — particularly since that concept makes so much sense and especially because it works."

Opera News — "... creates an increased sense of depth and spaciousness ... a wider spread of the area in which the stereo effect is perceived. ...with enough bass to give orchestral sound more credibility than usual from speakers in this price bracket."

Ohm Coherent Audio Monitor Specifications

	OHM 16 SBA	OHM 32 SBA	OHM 42 SBA
Frequency Range (±4 dB):	46 to 20,000 Hz	37 to 20,000 Hz	30 to 20,000 Hz
Recommended Power:	15 to 85 watts	15 to 175 watts	15 to 300 watts
Sensitivity:	89 dB	90 dB	91 dB
Impedance:	8 ohms	8 ohms	8 ohms
Sub Bass Activator:	Included	Included	Included
Enclosure Volume:	16 liters (0.56 cu ft)	32 liters (1.13 cu ft)	42 liters (1.48 cu ft)
Tweeter:	19 mm (3/4 in)	19 mm (3/4 in)	19 mm (3/4 in)
Woofer:	165 mm (6-1/2 in)	165 mm (6-1/2 in)	205 mm (8-1/2 in)
Acoustically-Coupled Subwoofer:	—	250 mm (10 in)	300 mm (12 in)
Height:	438 mm (17-1/4 in)	565 mm (22-1/4 in)	673 mm (25-1/4 in)
Width:	229 mm (9 in)	324 mm (12-3/4 in)	375 mm (14 in)
Depth:	279 mm (11 in)	279 mm (11 in)	279 mm (11 in)
Suggested Retail Price:	\$400/pr	\$520/pr	\$680/pr



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