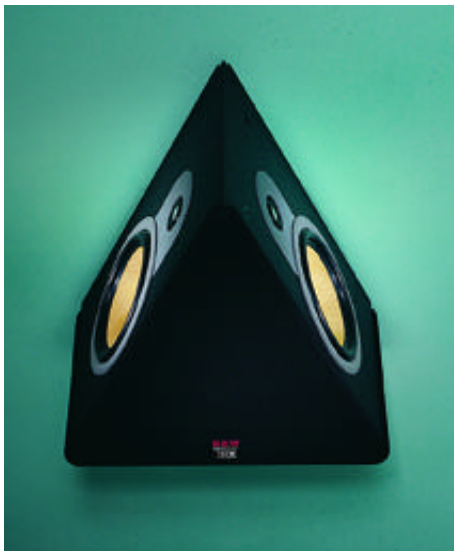
SCM8

THX Home Cinema Series

Product Summary

- The Surround Cinema Monitors have a unique appearance and design. They are dipoles, projecting sound along two opposing axes with opposite polarity. The resulting cancellation between those opposing phase responses means that the sound level projected at right angles to these axes (in the null plane) is much lower in level.
- The reason for this is the desirable non-localisation of the surround sound. The speakers are positioned at each side of the listener with the null plane pointing towards the listening area, this means that the vast proportion of the sound is reflected by the room surfaces and is diffuse in nature.
- A further advantage of the Home THX® approach is that there is a seamless transition between the front and surround sound fields that is independent of the relative position of the speakers - and a wider spread of listeners can hear the overall sound field.
- The triangular construction of these speakers has several advantages, functional as well as aesthetic. Firstly the back-to-back distance between the drive units widens the dipole null area and permits greater numbers of listeners to experience the dispersive nature of the sound. Secondly the speakers are mounted higher than the listeners and the sloping faces project the sound away from them, giving them a wider null area and a better illusion of height. Thirdly, the triangular shape also reduces the levels of standing waves inside the cabinet which can re-radiate as coloration.



Technical highlights

Kevlar®: B&W developed and patented the method of using Kevlar® for loudspeaker cones to reduce unwanted standing waves. DuPont originally created Kevlar® for use in bulletproof vests.

Matrix™: The basic construction of nearly all loudspeakers is exactly the same - panels of wood-based materials, bonded to form a rectangular box. B&W studied and evaluated how each aspect of cabinet behaviour and the efficiency of various materials and construction methods affects sound.

Description	Wall mounting second-order closed-box system with dipolar radiation characteristics	**Sensitivity**	87dB spl (2.83V 1m)
		Nominal impedance	4 ohms
		Power handling	50W - 200W into 8 ohms on unclipped programme
Drive units	2 x 25mm dome high-frequency unit with metal diaphragms, high power voice coils and magnetic fluid cooling	**Dimensions**	Height: 362mm Width: 352mm Depth: 251mm
	2 x 160mm Kevlar® bass / mid	**Finishes**	Black Ash
Frequency response	105Hz - 25kHz ± 6dB on reference axis		Grille: Black Cloth

B&W

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