

2-Way Surface Mounted Loudspeaker

DESCRIPTION

The SMS1990 advances the state-of-the-art for small loudspeaker technology in providing high quality sound and controlled directivity. The design incorporates several innovative technologies developed by EAW for much larger professional loudspeakers. These provide the SMS1990 with the directional performance, wavefront coherency, output levels, and sound quality normally associated with much larger and more expensive loudspeakers.

The 2 LF drivers are configured in a precise arrangement to provide excellent pattern control and coherency below the LF/HF crossover. In addition, the LF drivers couple at lower frequencies providing the LF output of a much larger driver without sacrificing sound quality through the crossover region. The custom, high power HF driver complements the LF subsystem throughout the critical speech range. The result of these driver configurations is an extended range of pattern control and coherency that is not generally associated with loudspeakers of this size.

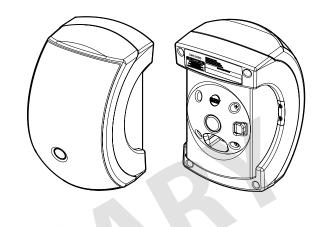
The SMS1990 is designed for surface mounting using the Clip-Fit[™] wall bracket. The Clip-Fit bracket provides both the mechanical and electrical connections to the loudspeaker. This allows the loudspeaker mounting and wiring to be pre-installed on the job site. The loudspeaker is then simply mounted to the Clip-Fit bracket in one operation that provides both the mechanical and electrical connections.

Features

- 2 x 3 inch Kevlar low frequency transducers
- 1 x 1 inch high frequency dome tweeter
- 90° x 90° coverage pattern
- UV/weather resistant HIPS (High Impact Polystyrene) enclosure
- Crossover optimized for speech intelligibility
- U-bracket included

Applications

- Meeting Rooms Houses of Worship
- Hotels Boardrooms
- Courtrooms
- Boardrooms
- Multi-Purpose Facilities
- Multizone Paging/Music Systems

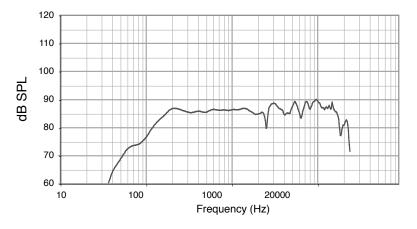


SPECIFICATIONS

CONFIGURATION	Transducer		Looding				
Subsystem:	LF 2x 3 in cone HF 1x 1 in dome		Loading Vented Waveguide				
				Operating Mode:	Amplifier Channels		External Signal Processing
					Single-arr	ip LF/HF	HPF
PERFORMANCE							
Derating Range: 99 Hz to 20 kHz							
Nominal Beamwidth:							
	Vert 90°	5					
Axial Sensitivity (who	le space S	PL):					
	LF/HF 86 c	IB 99 Hz t	o 20 kHz				
Input Impedance (ohr	ns):	Nominal	Minimum				
		LF/HF 8	6.7 @ 390 Hz				
Input Taps (w/CF-1TX	version):	70 V: 32 W	/ / 16 W / 8 W / 4 W				
		100 V: 32 \	N / 16 W / 8 W				
High Pass Filter: Hi	gh Pass=>	90 Hz, 24 dB	octave Butterworth				
Accelerated Life Test	: LF/HF 25 \	/ 75 W @	8 ohm				
Calculated Axial Outp	ut Limit (w	hole space	SPL):				
Average			Peak				
	LF/HF 105		111 dB				

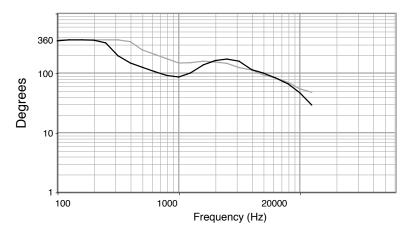


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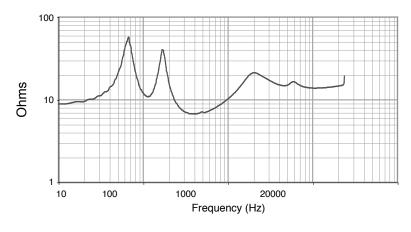


SMS1990 UNPROCESSED RESPONSE VS. FREQUENCY

SMS1990 BEAMWIDTH VS. FREQUENCY



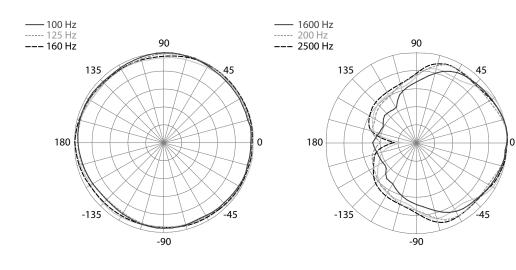
SMS1990 IMPEDANCE VS. FREQUENCY

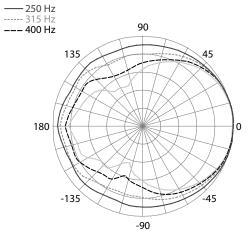


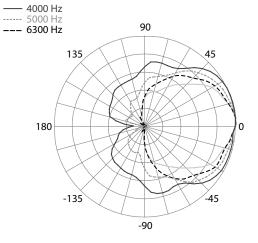


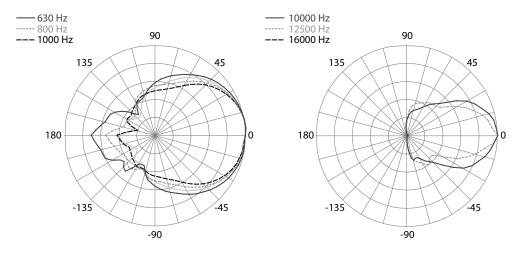
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SMS1990 VERTICAL POLARS





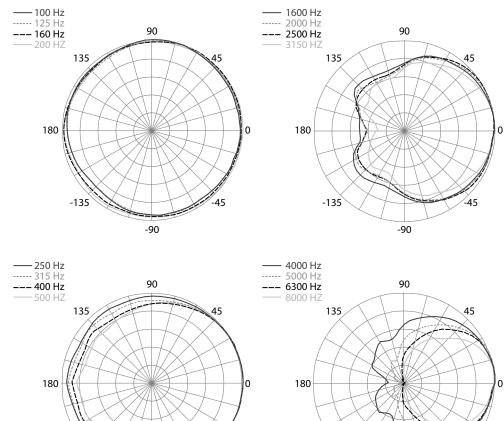


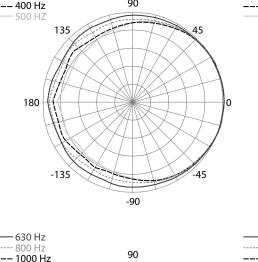


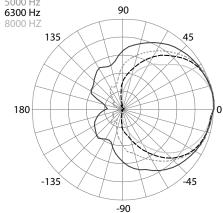
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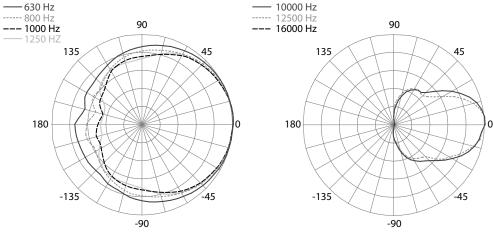


SMS1990 HORIZONTAL POLARS









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