

TECHNICAL FEATURES System configuration (4012MH) 2-way passive speaker System configuration (4012MH/A) 2-way active speaker Power handling RMS 450 W Power handling Music 900 W Power handling Peak 1800 W 65÷20k Hz Frequency response (-6 dB) Nominal impedance (4012MH) 8Ω 90° horizontal, 50° vertical Dispersion angle (-6 dB) Axial sensitivity (1W@1m) 99.5 dB Continuous SPL (@1m) 126 dB Peak SPL (@1m) (4012MH) 132 dB Peak SPL (@1m) (4012MH/A) 130 dB Crossover frequency 1.8 kHz

AMPLIFIER DATA (4012MH/A)		
Audio input	XLR with loop through - max +10 dBu	
Panel indicators	LED: power, signal, limit	
Panel controls	Mode A (full range)/Mode B (HPF) switch, level control	
DSP processing	24 bit/96 kHz (2 sel. presets)	
Amplification power	500 W - class D	
Efficiency	> 90% typical	
Protection systems	over current, temperature, brownout, soft start	
Power supply	switching technology	
AC power connector	Neutrik® powerCON	
AC power operating range	automatic 115/230 VAC ± 10%, 45/65 Hz	

TRANSDUCERS		
LF sub system	1x12" - neodymium magnet	
Nominal impedance	8 Ω	
Nominal power handling (AES)	400 W	
Sensitivity (1W@1m)	100 dB	
HF sub system	1x1" - mylar membrane	
Diaphragm	DOME, mylar	
Voice coil	1.4", aluminium	
Throat diameter	1"	
Nominal impedance	8 Ω	
Nominal power handling (AES)	50 W	
Sensitivity (1W@1m)	105 dB	
Horn	AWSH™	
Material	aluminium	
Manufacturing process	die casting	

All measurements have been taken in Sound Corporation R&D laboratories

DESCRIPTION

Extremely compact, full-range 2-way speakers with a very wide frequency response and excellent power handling capability (with a pressure generating capability of over 130 dB). Particularly suitable for use in dance clubs, amusement parks and multi-purpose halls. Thanks to their special geometric design, both models are perfect as floor-standing monitors.

COMPONENTS

The 4012MH and 4012MH/A models have a high-power 12" woofer with Neodymium magnet and treated with weatherproofing resins.

The HF section consists of the Alluminum AWSHTM (Acoustic Wave Shaped Horn) with proprietary technology and a 90°x50° dispersion angle, coupled with a 1" Mylar driver. The electronic parts are made of high quality components (minimum phase rotation crossovers, copper coils with Kapton formers containing Ferrite powder) providing excellent power handling and remarkable sound quality.

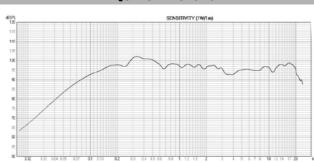
CABINET

The speaker cabinet in Baltic birch plywood is strong enough to withstand all kinds of mechanical oscillations without vibrating. The water-based coating technique with a textured mono-component paint has been expressly designed to protect the cabinet against abrasion, scratching, impact and high humidity levels. The particular shape of the back (angular surface - 114°) makes these systems perfect for stage monitor use.

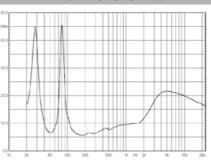
VERSIONS

An active version is available (4012MH/A); it is provided with a 500 W digital amplifier using switching technology and a DSP (Digital Signal Processor), with 2 different high-pass frequency cuts that the user can select through a proper switch located on the rear panel.

FREQUENCY RESPONSE



IMPEDANCE RESPONSE (4012MH)



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4012MH POLAR PATTERNS (normalized, ref on axis, passive X-over) freq.**125** Hz freq.**250** Hz freq.**500** Hz freq. 1000 Hz freq.**2000** Hz freq.**4000** Hz **Polar Patterns Key** horizontal vertical ----- - 6 dB ----- 10 dB/div 30° sectors freq.**16000** Hz frea.8000 Hz **PHYSICAL** Cabinet birch plywood black Colour Input connectors 2 x NL4 Neutrik® speakON (4012MH) perforated steel (Ø 6 mm, 7.2 mm step) Grille with acoustically transparent foam Suspension accessories STD-4012, STD-WALL, PS-OC6 Dimensions (WxHxD) 35.5 x 57.5 x 40.5 cm Net weight (4012MH) 18 kg Net weight (4012MH/A)

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