SRM450 SPECIFICATIONS

System Specifications

Frequency Response (-3 dB)	
	$55 \mathrm{Hz} - 18 \mathrm{kHz}$
Frequency Range (–10 dB)	
	45 Hz - 20 kHz
Directivity Factor; Q (DI) 9.95 (9.98), averaged 2 kHz to 10 kHz	
Max SPL Long-term @ 1m	
	124 dB
Max SPL Peak @ 1m	127 dB
Crossover	Linkwitz-Riley,
	24 dB/octave @ 1600 Hz

Audio

Input Type	Balanced Differential
Input Impedance	20 kohms
Input Protection	RFI and level protected
Sensitivity	
Line:	+4 dBu (center detent)
Mic:	36 dBu
Maximum Input Level	t +22 dBu
Low-Cut Frequency	75 Hz, Second-order filter
Acoustic Contour Equalization	
Peaking:	+3 dB @ 100 Hz,
	+3 dB @ 12 kHz
Operating Temperature Range	
-10°C to 45°C (14°F to 113°F)	

Power Amplifiers

Low-Frequency Power Amplifier	
Rated Power	300 watts*
Rated THD	< 0.1%
Coolina	Convection Extrus

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Cooling	Convection Extrusion
Design	Class D, Parametric Servo Feedback

High-Frequency Power Amplifier

Rated Power	100 watts*
Rated THD	< 0.1%
Cooling	Convection Extrusion
Design	Conventional Class AB

*Rated power is continuous rms wattage into transducer's rated impedance @ 5 kHz for the HF amplifier and @ 500 Hz for the LF amplifier.

Transducers

Low-Frequency Transducer	
Diameter	12 in/300 mm
Voice Coil Diameter	3.0 in/75 mm
Sensitivity (1W@1m)	98 dB
Nominal Impedance	8 ohms
Power Handling	600 watts, program
Frequency Range	45 Hz - 3 kHz
High-Frequency Transducer	
Diaphragm Diameter	1.75 in/44.5 mm
Diaphragm Material	Heat treated titanium
Sensitivity (1W@1m)	106 dB
Nominal Impedance	8 ohms
Power Handling	100 watts, program
Frequency Range	1 kHz - 20 kHz
Horn Design	
Type	Conical and Exponential
Mouth Size	12 in/304.8 mm (W) x 7 in/177.8 mm (H)
Throat Diameter	1 in/25.4 mm
Horizontal Coverage	90° (1 kHz–20 kHz)
Vertical Coverage	45° (2.8 kHz–20 kHz)

Line Input Power

$U\!S$	120 VAC, 60Hz
Recommended amp	erage service 2.5 amps
Europe	230 VAC, 50Hz
Recommended amp	erage service 1.25 amps
Japan	100 VAC, 50/60Hz
Recommended amp	erage service 3.0 amps
AC Connector	3-pin IEC 250 VAC

Control System Function

Electronic Crossover Phase Alignment Equalization Parametric Equalization

Safety Features

Over-Excursion Protection	
Second-Order High-Pass Filter	
Thermal Protection Amplifier shutdown, auto-reset	
Low-Line Voltage Shut Down	
	60% Nominal line
Driver Protection	Independent LF and HF compressors
Low-Freq Roll-Off	Dynamic, signal-level dependent

Construction Features

Basic Design Asymmetrical Trapezoidal		
Enclosure Alignment Sixth-Order		
Material	Polypropylene	
Finish	Midnight Blue, textured finish	
Handles	One on each side, one on top	
Mounting Methods		
Integrated mounting points, M10		
	Two each located on each side, top, bottom, and rear of enclosure	
Grille	Perforated metal with weather-resistant coating	
Display LEDs	s Signal Present, Peak, Power ON, and Thermal	

Physical Properties

Height	26.0 in/660 mm
Width	15.4 in/390 mm
Depth	14.8 in/376 mm
Weight	40 lb/18 kg

Options

PA-A1 forged shoulder eyebolt hardware (M10 x 1.5 mm x 20 mm) SPM100 (Speaker Pole Mount)

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

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SRM450 v2 BLOCK DIAGRAM

