



VR51 TWO-WAY LOUDSPEAKER

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FEATURES

- Both low-Q and high-Q horns included
- Rotatable horns and multiple threaded inserts allow vertical or horizontal mounting
- High SPL full range output with 15 inch LF & 1.4 inch HF drivers
- Integral passive crossover network allows economical single-amplifier powering
- Optional 70 V / 100 V multi-tap transformer
- Optional array brackets for attractive flown arrays with VR Series subwoofers

DESCRIPTION

The VR51 has been engineered as a high output full range solution for a wide range of applications, from music and speech reinforcement to delay or fill coverage. Two horns are included with each VR51: the factory-installed low Q horn can easily be rotated or replaced with a high-Q horn as needs dictate. The ability to select among four coverage patterns with either vertical or horizontal mounting makes the VR51 a uniquely versatile solution. High acoustic output capabilities enable the VR51 to deliver clear speech and clean music to large audience areas.

The cross-ply laminated birch enclosure includes several threaded mounting points, suitable for use with either forged shoulder eyebolts or a user-supplied OmniMount 120.0 Series wall mount bracket. Optional array brackets simplify the installation of attractive flown arrays with either the VRS12 or VRS18 subwoofer. Either of these subwoofers has the same height as the VR51. The VR51 is available in either black or white finishes. A foam-backed powder-coated steel grill protects the drivers. The entire loudspeaker is fully tested at the time of manufacture and is warranted to be free from defects in materials and workmanship for a period of five years from the date of purchase.



APPLICATIONS

- Houses of Worship
- Night Clubs
- Audiovisual Presentation
- Retail Environments
- Distributed Systems
- Theaters
- Theme Parks

SPECIFICATIONS

PRODUCT DATA

Model Name	VR51
Part Number	Black: 0010086 White: 0011348
File creation date	07/29/2004

SPECIFICATION SHEET TABULAR DATA

Descriptive Data	Ways	Type	Mode
	2-way	Full-Range	Single Amp

CONFIGURATION

Subsystem	Transducer	Loading
	LF	1x15 in cone — Vented
	HF	1x1.4 in exit compression driver — Horn-loaded

PERFORMANCE

Operating Range	55 Hz to 20000 Hz
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Nominal Beamwidth (rotatable)

	Factory installed	Supplied (user installed)
Horizontal	90°	60°
Vertical	60°	45°

Axial Sensitivity (whole space SPL)

99 dB	55 Hz to 20000 Hz
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Peak Sensitivity (whole space SPL)

99 dB	20 Hz to 20 kHz
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Input Impedance (ohms)

Nominal	Minimum
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8	7.3 @ 160 Hz
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Recommended High-Pass Filter

High Pass	=> 60 Hz, 24 dB/octave Butterworth
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Power Handling (preliminary)

500 W	64 V @ 8 ohms
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Calculated Maximum SPL (preliminary)

Average	Peak
123 dB	129 dB

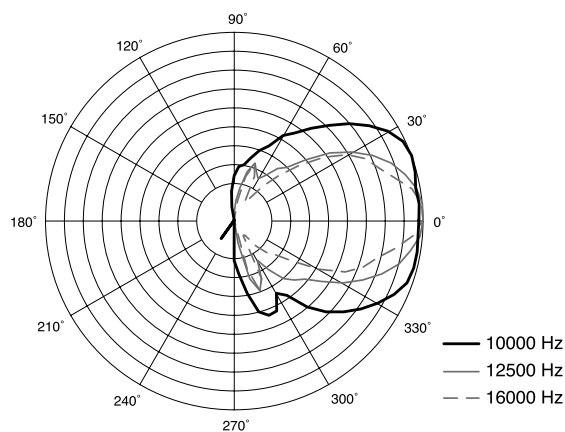
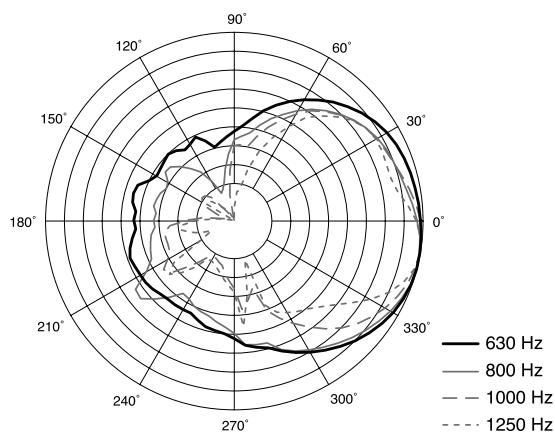
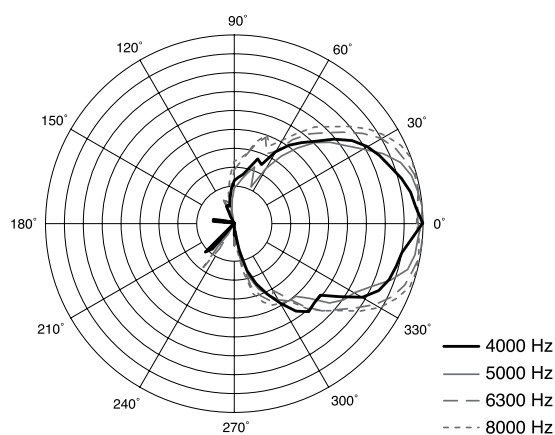
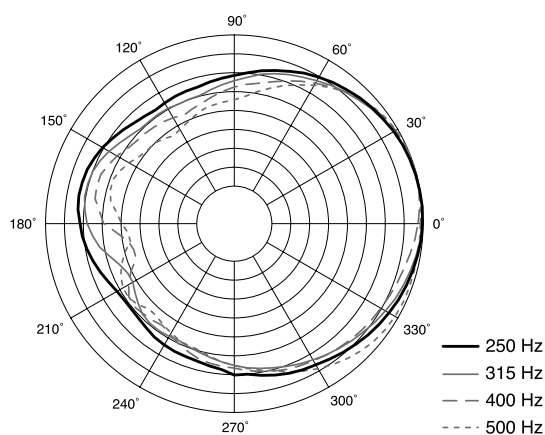
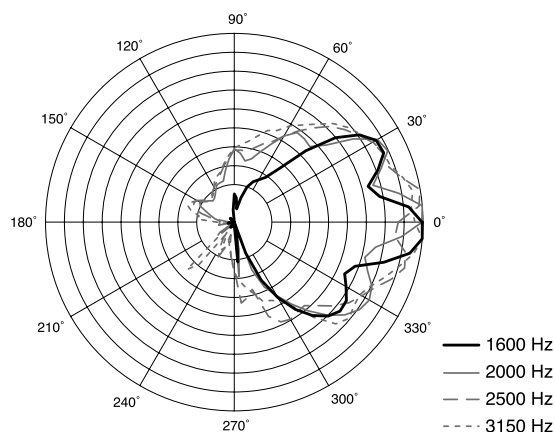
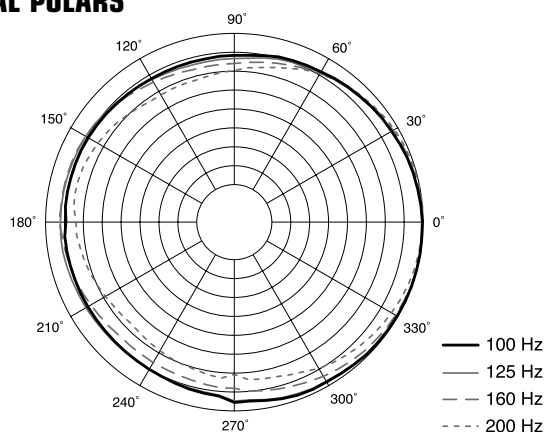


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VR51 VERTICAL POLARS



(Chart Scale = 3 dB / division)

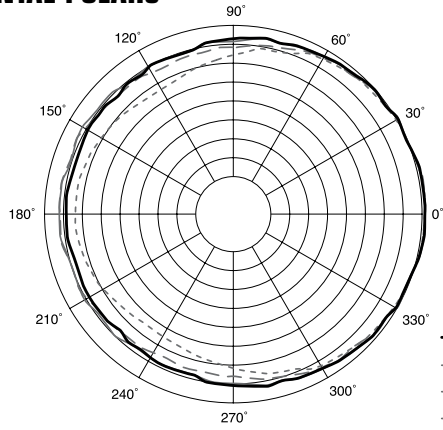


VR51 TWO-WAY LOUDSPEAKER

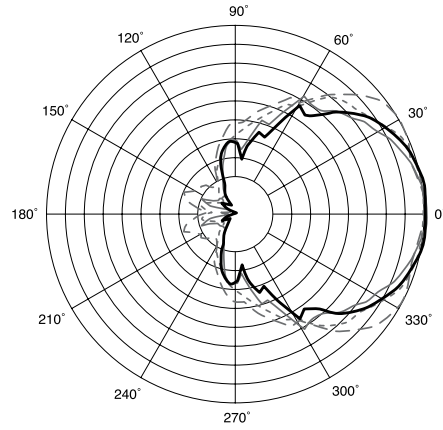
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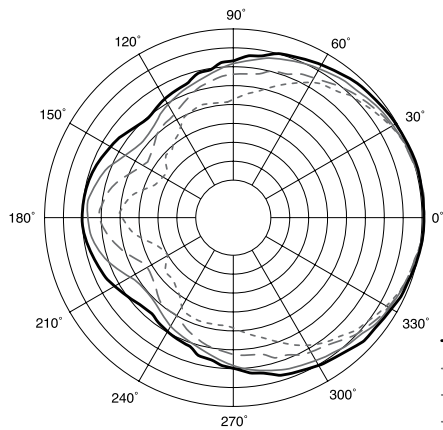
VR51 HORIZONTAL POLARS



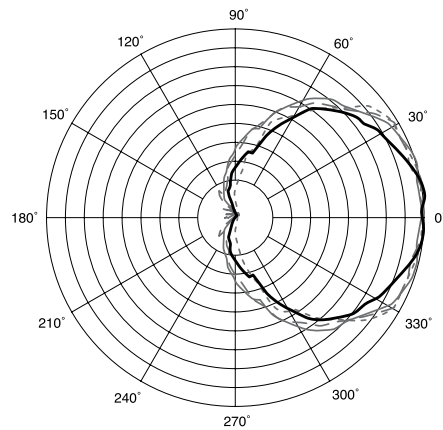
— 100 Hz
— 125 Hz
- - 160 Hz
- - - 200 Hz



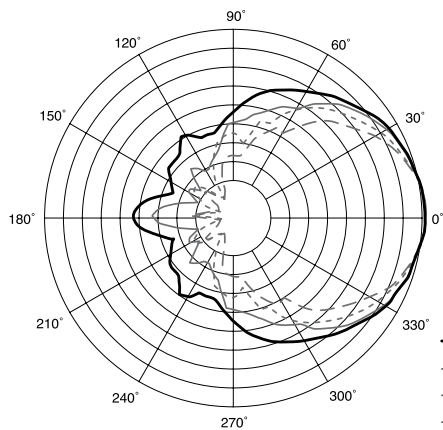
— 1600 Hz
— 2000 Hz
- - 2500 Hz
- - - 3150 Hz



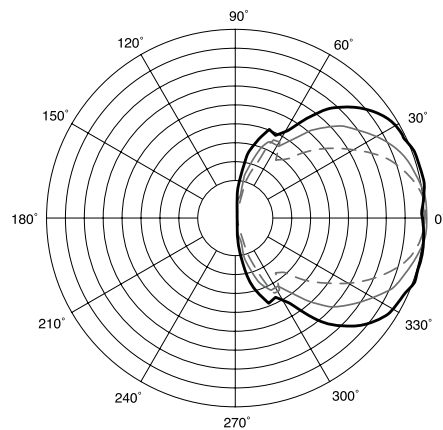
— 250 Hz
— 315 Hz
- - 400 Hz
- - - 500 Hz



— 4000 Hz
— 5000 Hz
- - 6300 Hz
- - - 8000 Hz



— 630 Hz
— 800 Hz
- - 1000 Hz
- - - 1250 Hz



— 10000 Hz
— 12500 Hz
- - 16000 Hz

(Chart Scale = 3 dB / division)

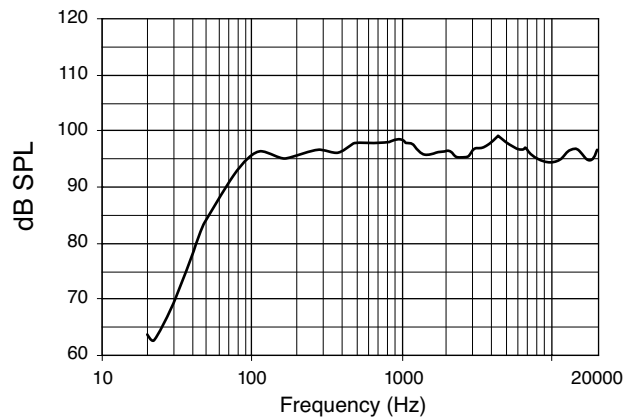


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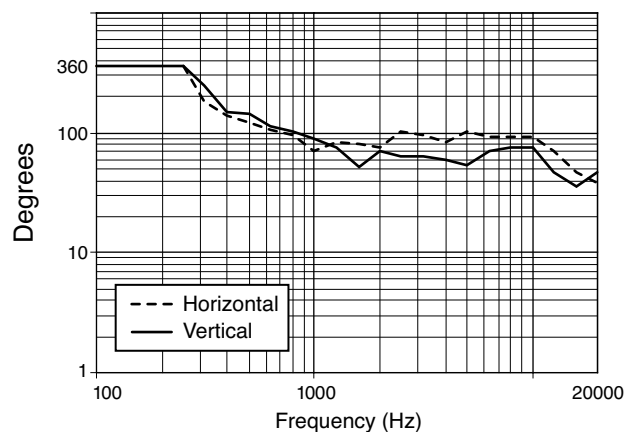
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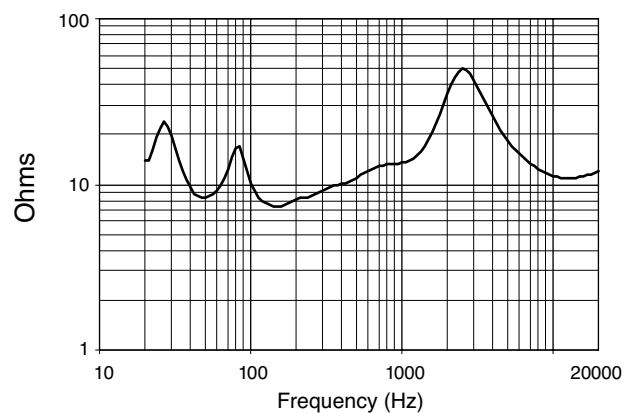
VR51 FREQUENCY RESPONSE ON-AXIS



VR51 BEAMWIDTH VS. FREQUENCY



VR51 IMPEDANCE VS. FREQUENCY



VR51 DIMENSIONS

