



VR21

Two-Way Loudspeaker

VR21: TWO-WAY LOUDSPEAKER

The VR21 has been engineered as a high output full range solution for a wide range of applications, from music and speech reinforcement to delay or full coverage. Two horns are included with each VR21: 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 VR21 a uniquely versatile solution. High acoustic output capabilities enable the VR21 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 VR21. The VR21 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.

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 12 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

SPECIFICATIONS

PRODUCT DATA

| | |
|--------------------|-------------------------------|
| Model Name | VR21 |
| Part Number | Black: 0010075 White: 0011347 |
| File creation date | 07/29/2004 |

SPECIFICATION SHEET TABULAR DATA:

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



APPLICATIONS

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

CONFIGURATION

| Subsystem | Transducer | Loading |
|-----------|------------|--|
| | LF | 1x12 in cone – Vented |
| | HF | 1x1.4 in exit compression driver – Horn-loaded |

PERFORMANCE

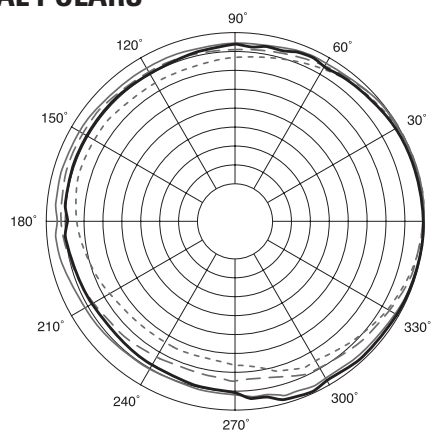
| | | |
|--------------------------------------|------------------------------------|---------------------------|
| Operating Range | 70 Hz to 20000 Hz | |
| Nominal Beamwidth (rotatable) | | |
| | Factory installed | Supplied (user installed) |
| Horizontal | 90° | 60° |
| Vertical | 60° | 45° |
| Axial Sensitivity (whole space SPL) | | |
| | 99 dB | 70 Hz to 20000 Hz |
| Peak Sensitivity (whole space SPL) | | |
| | 103 dB | 20 Hz to 20 kHz |
| Input Impedance (ohms) | Nominal | Minimum |
| | 8 | 8.8 @ 260 Hz |
| Recommended High-Pass Filter | | |
| High Pass | => 60 Hz, 24 dB/octave Butterworth | |
| Power Handling (preliminary) | | |
| | 300 W | 49 V @ 8 ohms |
| Calculated Maximum SPL (preliminary) | | |
| | Average | Peak |
| | 124 dB | 130 dB |



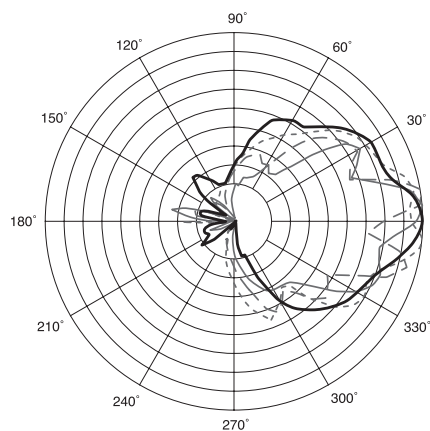
VR21

Two-Way Loudspeaker

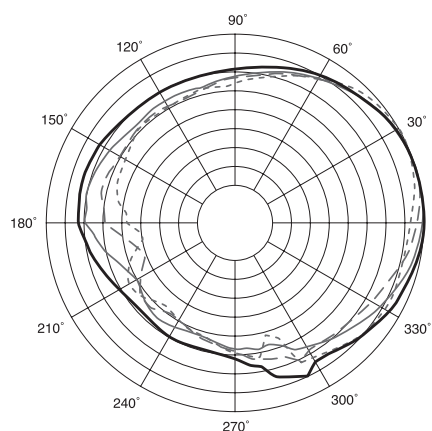
VR21 VERTICAL POLARS



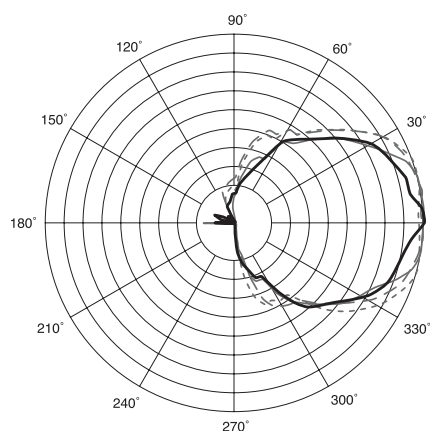
— 100 Hz
— 125 Hz
- - 160 Hz
- - - 200 Hz



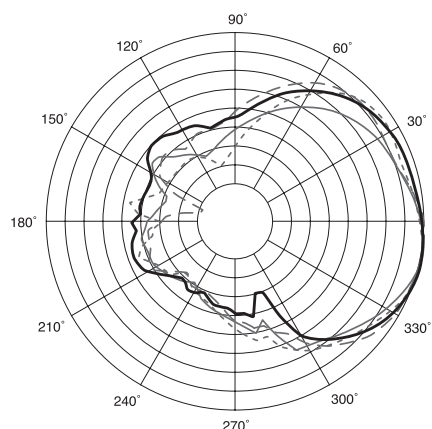
— 1600 Hz
— 2000 Hz
- - 2500 Hz
- - - 3150 Hz



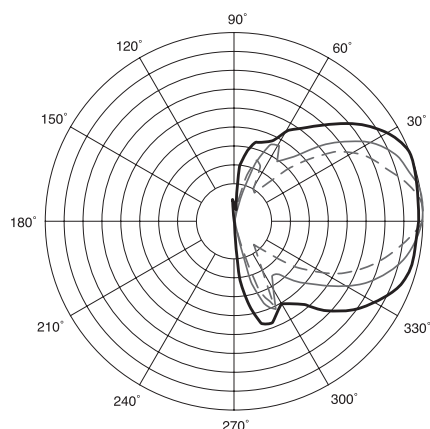
— 250 Hz
— 315 Hz
- - 400 Hz
- - - 500 Hz



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



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



— 10000 Hz
— 12500 Hz
- - 16000 Hz

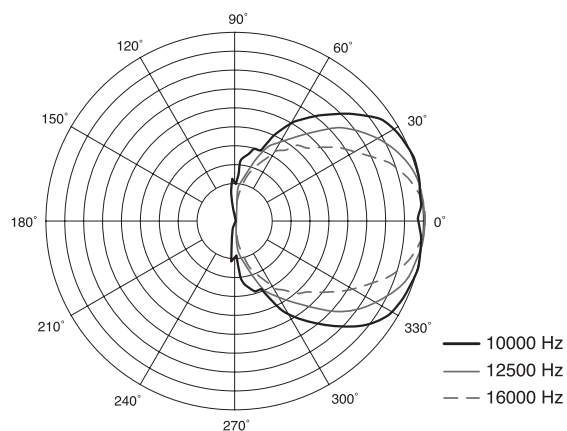
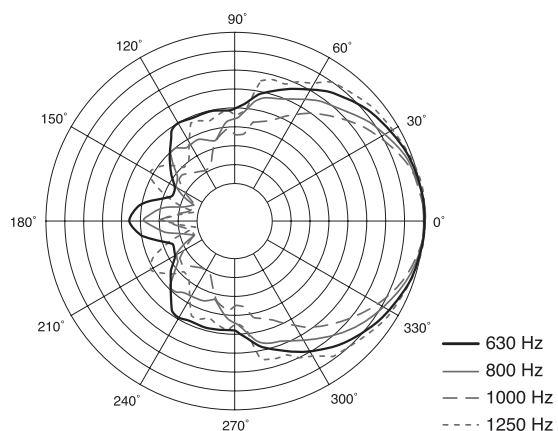
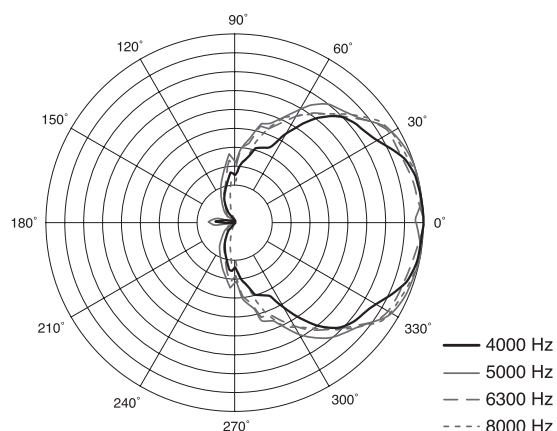
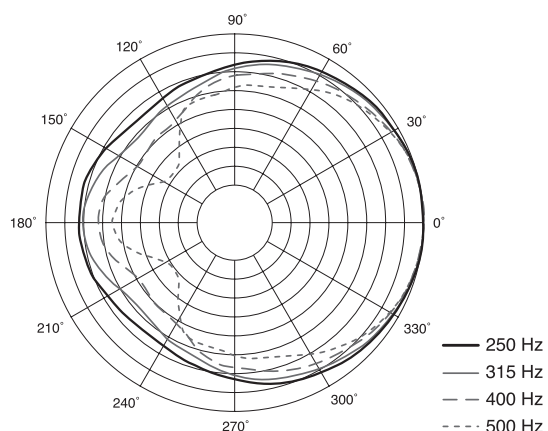
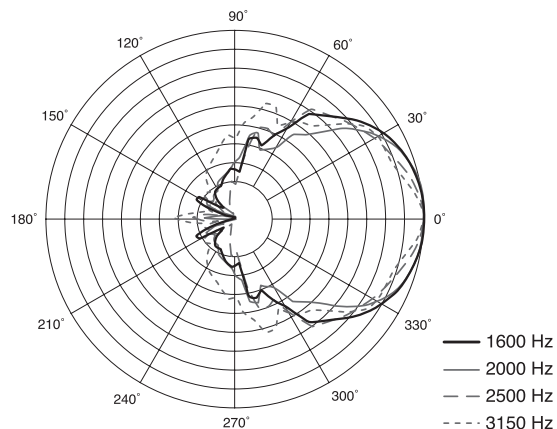
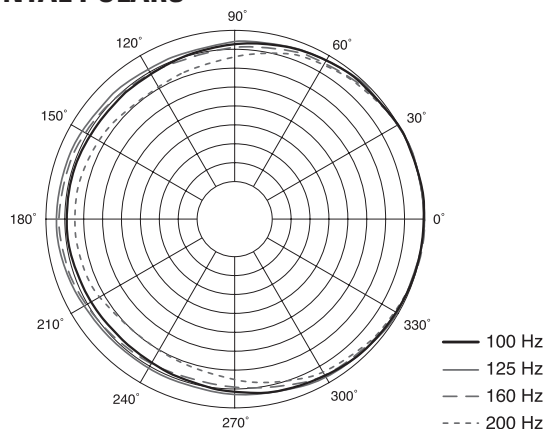
(Chart Scale = 3 dB / division)



VR21

Two-Way Loudspeaker

VR21 HORIZONTAL POLARS



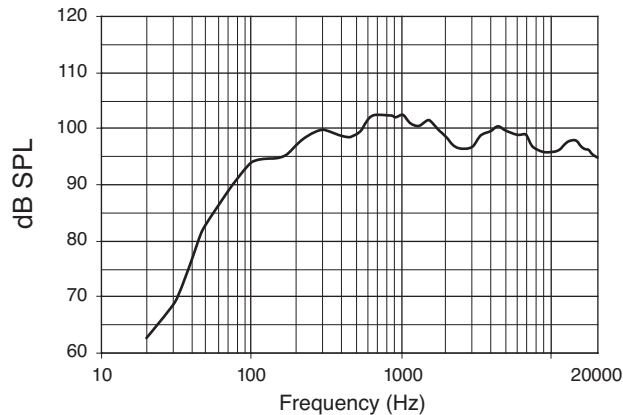
(Chart Scale = 3 dB / division)



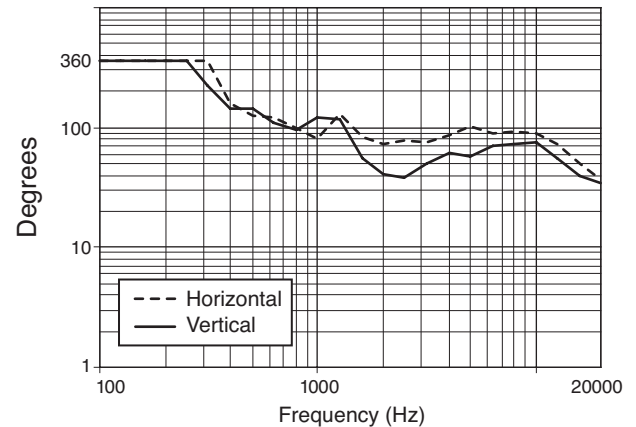
VR21

Two-Way Loudspeaker

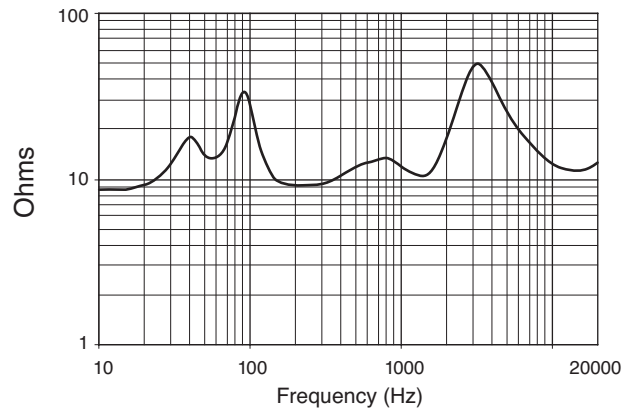
VR21 FREQUENCY RESPONSE ON-AXIS



VR21 BEAMWIDTH VS. FREQUENCY



VR21 IMPEDANCE VS. FREQUENCY



VR21 DIMENSIONS

