

# 9320 Large Format 12" High Power Cinema Surround

## Professional Series

### Key Features:

- ▶ Large PT™ Progressive Transition high frequency waveguide for superior coverage control and smooth frequency response
- ▶ 120° x 60° Coverage
- ▶ 98 dB Sensitivity
- ▶ 2408H-1 High Frequency compression driver
- ▶ MB12-8, 12" low frequency driver
- ▶ Rotatable waveguide for vertical or horizontal orientation
- ▶ Multiple mounting point options with M-10 threaded attachment points on the top, sides, and rear
- ▶ Input terminals on top of cabinet for easy access

The 9320 Cinema Surround Speaker offers high power handling with extended bass response for wide dynamic range required for large format cinemas and multi channel surround formats. The 9320 is a powerful, 2-way, full range surround comprised of an MB12-8, 300 mm (12") low frequency driver, and a 2408H-1, 38 mm (1.5") voice coil compression driver. The large format Progressive Transition waveguide provides exceptional 120° x 60° coverage. The waveguide is rotatable so the speaker can be used in the vertical or horizontal position.

The enclosure is constructed of multi-ply birch coated with JBL's rugged DuraFlex™ finish and is heavily braced to maximize low frequency performance. The enclosure is fitted with M-10 threaded points on the top and on the sides to facilitate U-bracket mounting. There are four M-10 threaded points on the rear positioned in a standard pattern to accept a variety of multi-mount brackets.

The 9320 Surround utilizes a steel grill to give a very professional appearance and to provide driver protection.



### Specifications:

#### System:

Frequency Range (-10 dB):	35 Hz-20 kHz
Frequency Response (±3 dB):	50 Hz-19 kHz
Power Rating <sup>1</sup> :	400 Watts continuous pink noise, 1600 Watts peak
Sensitivity (1W/1m) <sup>2</sup> :	98 dB-SPL half space/ wall mounted
Maximum Peak SPL <sup>3</sup> :	124 dB/1m
Nominal Impedance:	8 ohms
Hor. Coverage Angle (-6 dB):	120° averaged 2 kHz to 10 kHz
Vert. Coverage Angle (-6 dB):	60° averaged 2 kHz to 10 kHz
Directivity Factor (Q):	6.3 averaged 800 Hz to 10 kHz
Directivity Index (DI):	8.4 dB averaged 800 Hz to 10 kHz
Crossover Frequency:	1.9 kHz
Polarity:	EIA (Positive voltage to RED terminal gives forward cone motion)

#### Low Frequency Transducer:

Nominal Diameter: 300 mm (12")

#### High Frequency Transducer:

Nominal Diameter: 38 mm (1.5" voice coil)

#### Physical:

Downward Firing Angle: Nominal 15° when mounted flush on wall

Enclosure Material: Birch mulit-ply

Attachment: 9 points: two top, one bottom, one each side, four back, M-10 threaded hardware

Finish: Black DuraFlex

Grill: powder coated, perforated steel

Grille Color: Black

Input Connectors: NL4 Neutric Speakon and barrier strip

Dimensions (H x W x D): 638.3 mm x 368.3 mm x 416.6 mm  
26.9 in x 14.5 in x 16.4 in

Net weight: 17.5 kg ( 38.5 lbs)

<sup>1</sup>Rating based on test signal of IEC filtered random noise with a peak-to-average ratio of 6 dB, two hours duration.

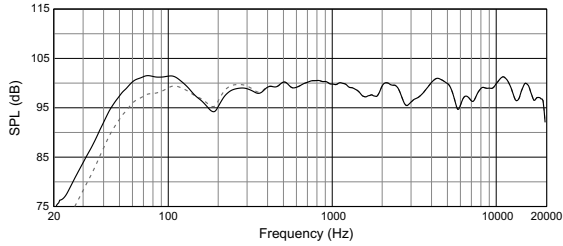
<sup>2</sup>Measured half-space sensitivity at 1W@1m from 200 Hz to 3 kHz.

<sup>3</sup>Calculated maximum SPL based on rated power handling and half-space sensitivity.

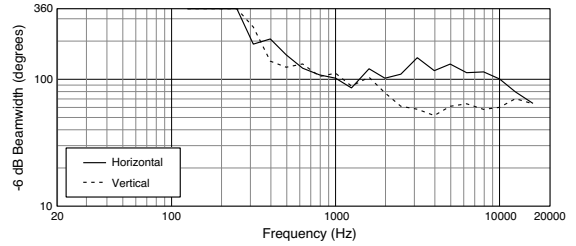
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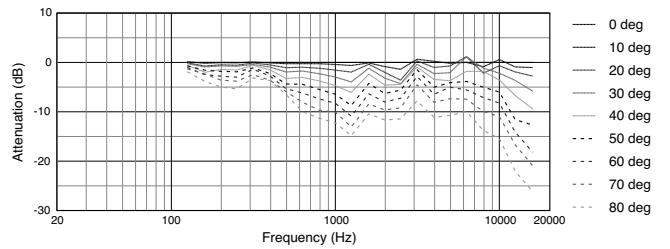
Frequency Response in half-space ( $2\pi$ , solid line) and free-field ( $4\pi$ , dotted line), and Input Impedance



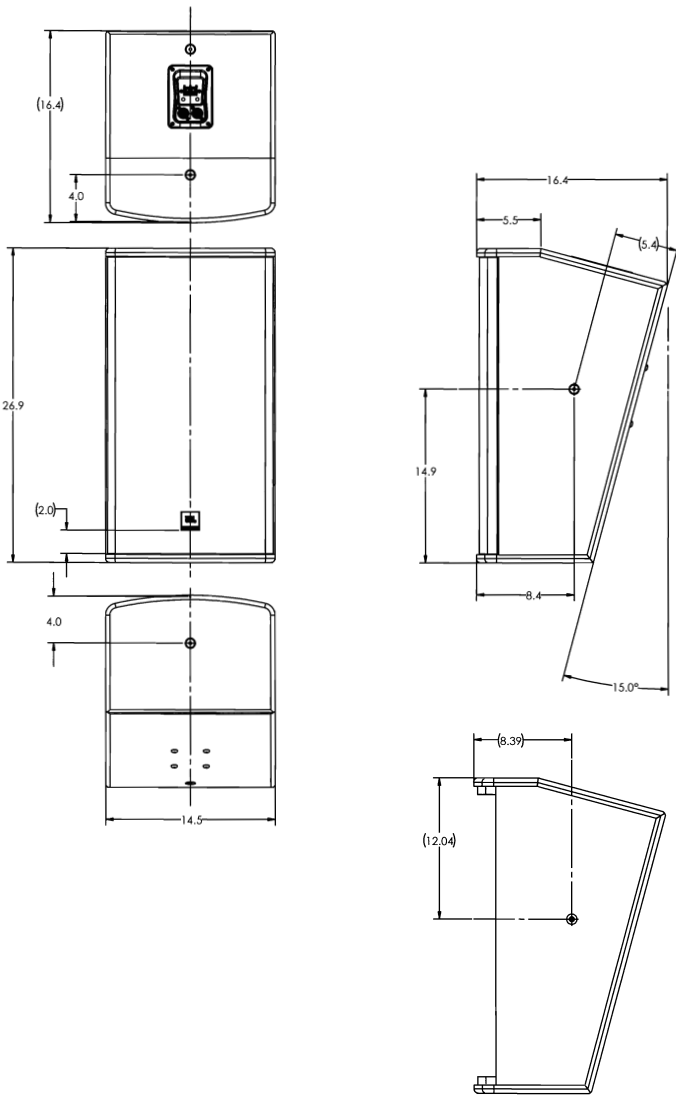
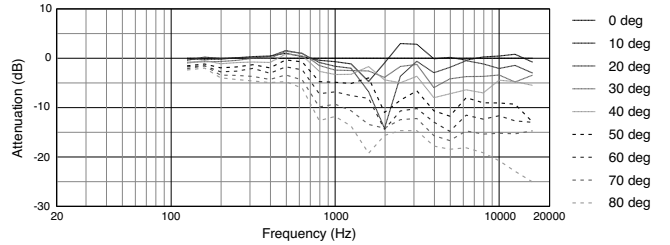
Beamwidth vs. Frequency



Horizontal Off-Axis Frequency Response



Vertical Off-Axis Frequency Response (down)



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