

J3-94

3 Way High Output Full Range Loudspeaker

DANLEY
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The Jericho product line stand in a class by itself. The Synergy Horn™ technology is the building block for these unique, high output single source designs but additional Danley technologies are also employed for mid and high frequency combining and low frequency loading.

The J3-94 is a single source, high output loudspeaker capable of covering very large audiences with ultra clear and consistent audio. The coverage pattern is 90° horizontal and 40° vertical. The J3-94 is a three-way design that uses 4 amp channels: 2 for the low frequency, 1 for the mid frequency, and 1 for the highs frequency. There are 18 drivers in the horn, (6) x 15" woofers, (8) x 6" mids and (4) x 1.4" high frequency compression drivers.

The 13 ply Baltic Birch used throughout the enclosure is encased in PolyUrea for protection from impact and atmospheric conditions. Install and touring versions are equipped with M10 rig points. Our EW (Extreme Weather) variant offers the ultimate in protection from the elements due to the use of high-density polyurethane panels impregnated with fiberglass fibers in the place of standard plywood.

As an added layer of protection we include our Sentinel™ high frequency driver protection circuitry which is a multistage limiter that protects the high frequency driver in the event of overloads (peaks or long term). It is inaudible during normal operation, so dynamic range is not compromised. Utilize our DNA amplifiers or processor for maximum performance and protection with industry leading DSP capabilities.

Performance Specifications

Operating Mode

4 channel three-way loudspeaker (2x Low | 1x Mid | 1x High)

Operating Range

70 Hz - 10.3 kHz - 3 dB | 60 Hz - 13.4 kHz -10 dB

Coverage Pattern

90° horizontal x 40° vertical

Transducers

LF 6x 15" | MF 8x 6" | HF 4x 1.4"

Power Handling

Total - 9,920 W Cont. | 39,680 W Peak

Low **2 x** 4,200 W Cont. | 16,800W Peak

Mid **1 x** 1,200 W Cont. | 4,800 W Peak

High **1 x** 320 W Cont. | 1,280 W Peak

Sensitivity

Low 112 dB | Mid 110 dB | High 112 dB

Sensitivity Under Equalized Conditions

106 dB

Maximum Output

149 dB Z-Peak

Impedance

Low **2 x** 4 Ohm

Mid **1 x** 4 Ohm

High **1 x** 4 Ohm

Physical Specifications

Connections (J3-94-T | J3-94-I)

1x Neutrik NL8 Speakon

Pin 1+/- | Low Frequency Pin 2+/- | Low Frequency

Pin 3+/- | Mid Frequency Pin 4+/- | High Frequency

Connections (J3-94-EW)

4x 2 Conductor Lead-in Wire

Mounting / Suspension Points

M10 rigging points

Dimensions / Weight

36 W x 48 H x 30.02 D in. | 914.40 W x 1219.20 H x 762.51 D mm.

440 lb | 199.58 kg

Finish

Black polyurea coated enclosure w/ matte black grille

White polyurea coated enclosure w/ matte white grille

Gray UV resistant coated enclosure w/ matte grey grille

Enclosure Material

18 mm Baltic Birch, polyurea coated

18 mm high-density polyurethane

Options

J3-94-T J3-94, Touring Version

J3-94-I J3-94, Install Version

J3-94-EW J3-94, Extreme Weather

Accessories

J3-94-DOLLY Transport dolly

BRKT-J3BB Bumper Bar Kit

Rev 20240208

J3-94

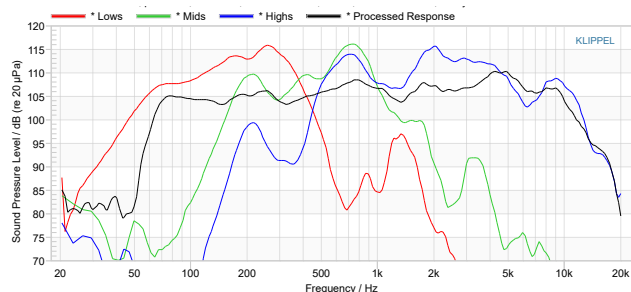
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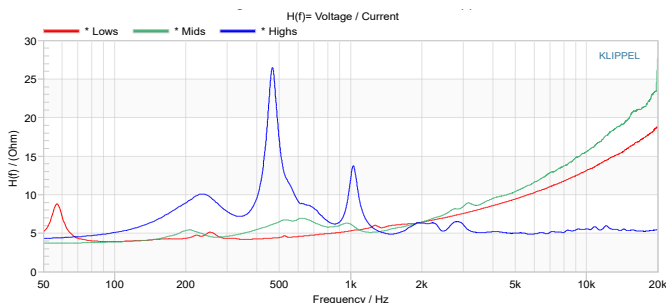
ARCHITECT/ENGINEERS SPECS

The J3-94 loudspeaker shall employ Danley Sound Labs' proprietary patented Synergy Horn™ driver configuration. The loudspeaker shall provide a nominal coverage pattern of 90° horizontal by 40° vertical. Its processed operational frequency range shall extend from 60 Hz to 13.4 kHz at -10 dB. With the recommended Danley Sound Labs signal processing applied, the loudspeaker shall produce a sensitivity of 106 dB SPL, referenced to 1 meter, with a 2.83 V RMS input. Using M-Noise, the J3-94 shall produce maximum output levels of 149 dB Z-peak, 136 dB Z-slow, and 129 dB A-slow, referenced to 1 meter. The loudspeaker shall have a total continuous power-handling capacity of 9,920 W and a peak power-handling capacity of 39,680 W. The enclosure shall be constructed from polyurea-coated Baltic birch or fiberglass-reinforced high-density polyurethane panels, depending on the selected model.

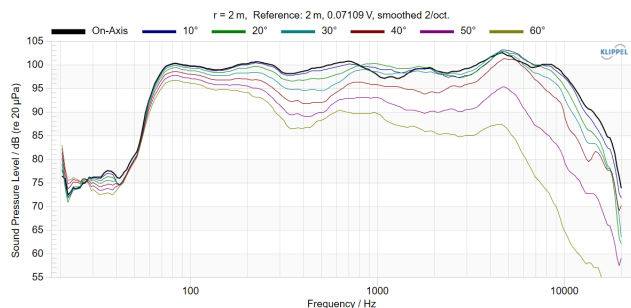
Sensitivity and Processed Response



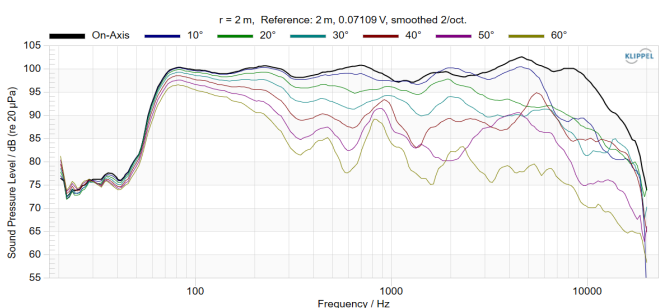
Impedance



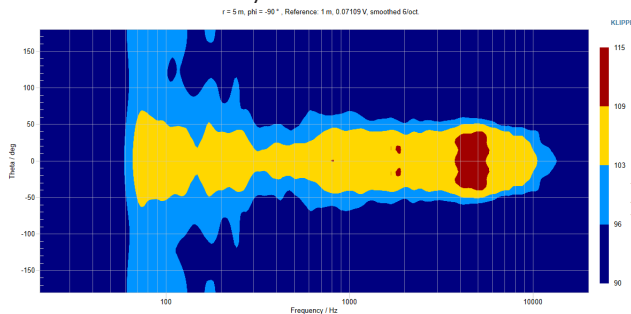
Horizontal Response



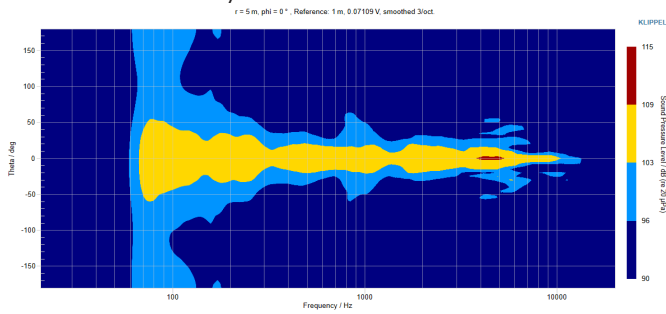
Vertical Response



Horizontal Directivity Contour



Vertical Directivity Contour



Performance Specifications: Sensitivity values are rounded to the nearest whole decibel. Maximum SPL values are reported to the nearest 0.1 dB. Danley Sound Labs DSP settings are required to achieve the specified processed response and maximum output performance.

Processed Response: Shows the loudspeaker's axial magnitude response with the recommended Danley Sound Labs signal processing applied.

Processed Phase Response: Shows the loudspeaker's axial phase response with the recommended Danley Sound Labs signal processing applied.

Operational Frequency Range: Specifies the frequency range over which the processed axial response remains within 3 dB or 10 dB of the stated reference sensitivity, as indicated.

Loudspeaker Directivity Contour: Shows the loudspeaker's relative SPL as a function of frequency and off-axis angle. Nominal coverage is defined by the -6 dB points in the polar response.

Maximum SPL: Measures the highest SPL at 1 meter using an M-noise signal in an equalized loudspeaker, following AES2-2012 standards, with one subsection at full capacity.

Power Handling: Specifies the continuous power-handling capability of the loudspeaker's component transducers, evaluated using methods defined in AES2-2012.

Sensitivity: Specifies the average axial SPL, referenced to 1 meter, produced by a 2.83 V RMS swept-sine signal over the stated measurement bandwidth, without signal processing, under free-field conditions.

Sensitivity Measurement: Shows axial SPL versus frequency, referenced to 1 meter, using a 2.83 V RMS swept-sine signal without signal processing under free-field conditions.

Sensitivity Under Equalized Conditions: Specifies the axial SPL, referenced to 1 meter, with the recommended Danley Sound Labs signal processing applied. The measurement uses a 0.0711 V RMS signal at the input of an amplifier with 32 dB of voltage gain, nominally corresponding to 2.83 V RMS at the amplifier output before frequency-dependent equalization.

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