NANO

Ultra Compact Loudspeaker

If you need big performance without a lot of space, we have the solution for you. The Nano is the smallest member of the Danley product line, yet it delivers sound and power almost unheard of for a speaker its size. It is designed for use in distributed 70-volt systems, supplemental fills, or stereo satellites with subwoofer systems. Its combination of ultra-compact size, high fidelity, and intelligibility makes the Nano a perfect alternative to competitive units using soft dome tweeters.

Marine options are equipped with a 316 stainless steel bracket, grill, and hardware, and it is rated at IP54. The transformer tap on the Nano-Marine is pre-determined and manufactured to suit customer requirements.

Performance Specifications

Operating Mode
Single channel amplified loudspeaker w/70 Volt

Operating Range
136 Hz - 21 Khz -10 dB

Coverage Pattern
110° Conical

Transducers
1x 3"

Power Handling
20 W Continuous | 40 W Program | 80 W Peak

Sensitivity
89 dB

Maximum SPL (continuous |peak)
102 dB | 108 dB

Impedance
8 Ohm

Physical Specifications

Connections (Nano)
1x Terminal strip w/ 8 ohm and 70V taps

Connections (Nano-Marine)
1x 3' 2 Conductor Lead-in Wire

Mounting / Suspension Points
Adjustable U-Bracket

Dimensions / Weight
5 W x 5 H x 5 D in. | 127W x 127 H x 127 D mm.
4 lbs | 1.8 Kg

Finish
Black, White and Gray

Enclosure Material
High Density Polyethylene

Options

Nano	Ultra Compact Loudspeaker w/ Transformer
Nano-8ohm	Ultra Compact Loudspeaker w/ No Transformer
Nano-Marine	Weatherized Version w/ Transformer
Nano-8-Marine	Ultra Compact Loudspeaker w/ No Transformer

Rev. 20240802

Danley Sound Labs Inc.
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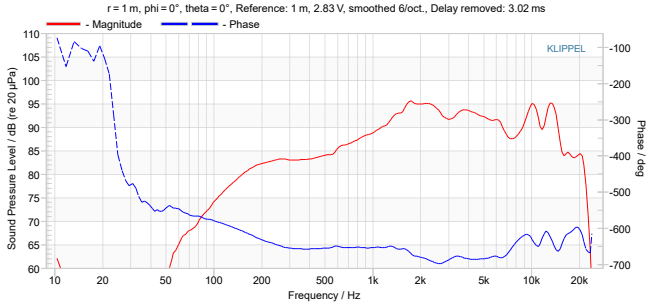
Ultra Compact Loudspeaker

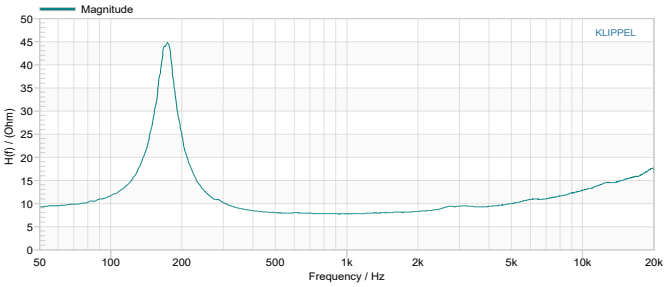
ARCHITECT/ENGINEERS SPECS

The Nano ultra-compact loudspeaker is a product of Danley Sound Labs. The specified coverage pattern for the loudspeaker is 110° conical. Its operational frequency range is defined from 136 Hz to 21 KHz, with a tolerance of -10dB. When subjected to an input of 2.83V, the loudspeaker's sensitivity is 89 dB SPL at a standardized distance of 1 meter. The Nano is capable of delivering peak audio levels of 108 dB SPL and continuous audio levels of 102 dB SPL, both referenced at 1 meter. The loudspeaker handles continuous power of 20 watts and withstands peak power levels up to 80 watts. The construction material for the Nano is high-density polyethylene. Marine options are equipped with a 316 stainless steel bracket, grill, and hardware, and it is rated at IP54. The transformer tap on the Nano-Marine is pre-determined and manufactured to suit customer requirements.

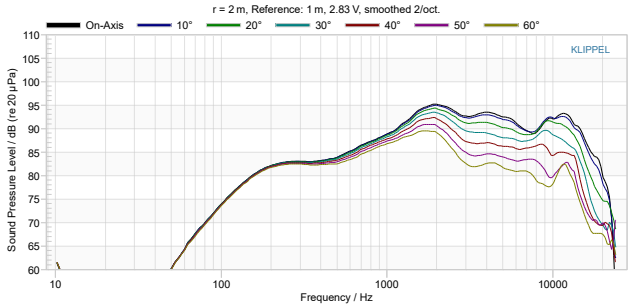
Frequency and Phase Response



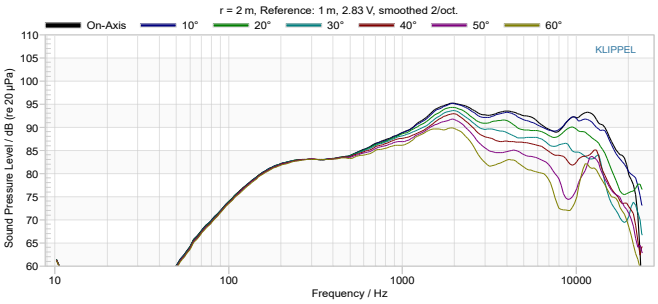
Impedance



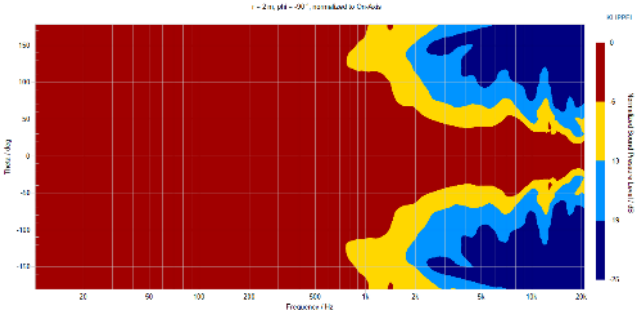
Horizontal Response



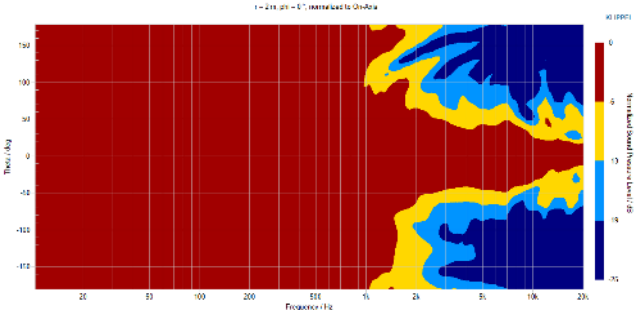
Vertical Response



Horizontal Directivity Contour



Vertical Directivity Contour



Performance Specifications: All acoustic measurements are rounded to the nearest whole number.

Operational Frequency Range: Denotes the frequency range where the loudspeaker's response is 10 dB lower than the specified sensitivity.

Loudspeaker Directivity: Defined as the angle at which the SPL decreases by 6 dB in the loudspeaker's spherical polar response.

Power Handling: Assessed based on the AES standard for evaluating the power handling capabilities of transducers.

Sensitivity: The SPL at 1 meter, produced by a 2.83V sinusoidal sweep from 20 Hz to 20KHz, measured without additional processing.

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