

OS80

2-way Outdoor Loudspeaker

DANLEY
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The OS80 is Danley's answer for those who are looking for a high-performance speaker in an outdoor enclosure that is impervious to weather. Featuring a high output 12"/1.4" coaxial driver mated to an 80° conical horn, a single cabinet can produce high quality audio beyond 130dB from a compact full range Synergy Horn™ that weighs only 51 lbs. Utilizing a Synergy crossover network allows for proper phase alignment between frequency bands. This permits the physically separated bands to combine and emerge from the horn as a single source, greatly reducing off axis distortions in frequency response and allowing for greater clarity at long distances. A Sentinel™ protection circuit offers an added level of protection to the high frequency driver. The OS80 includes a heavy-duty aluminum mounting bracket and angle strap.

Performance Specifications

Operating Mode

Single channel amplified loudspeaker

Operating Range

128 Hz - 16,000 Hz -3 dB

58 Hz - 18000 Hz -10 dB

Coverage Pattern

80° Conical

Transducers

1x Low 1x12", High 1x1.4" coaxial

Power Handling

400 W Continuous | 800 W Program | 1600 W Peak

Sensitivity 1M wholespace

100 dB

Maximum SPL 1M (continuous | peak)

127 dB | 133 dB

Maximum Linear SPL 1M

Z Peak: 133.3 dB SPL | A Slow: 116.9 dB SPL | Z Slow: 119.1 dB SPL

Impedance

8 Ohm

Physical Specifications

Connections (OS80)

1x 2 Conductor 14 Gauge Lead-in Wire

Connections (OS80-NL)

(2) Neutrik NL4 Speakon wired in Parallel

Pin 1+/- | Full Range

Pin 2+/- | Pass Through

Mounting / Suspension Points

U-bracket included - 3x 3/8 - 16 TPI Studs

Pole Mount Kit Available

Dimensions / Weight

Inches: H=32.25 W=26 D=14.5

MM: H=81.92 W=66.04 D=36.83

51 lbs | 23.13 Kg

Finish

Black, White and Gray

Enclosure Material

High Density Polyethylene

Rev. 20260707

OS80

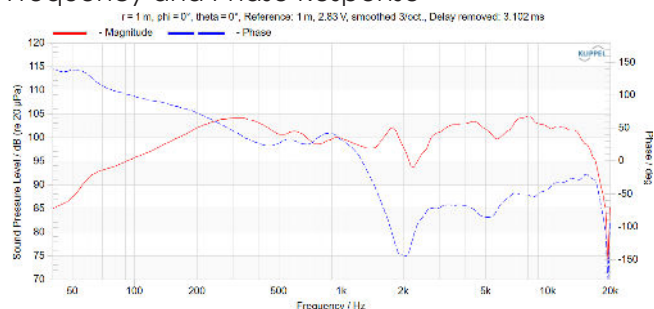
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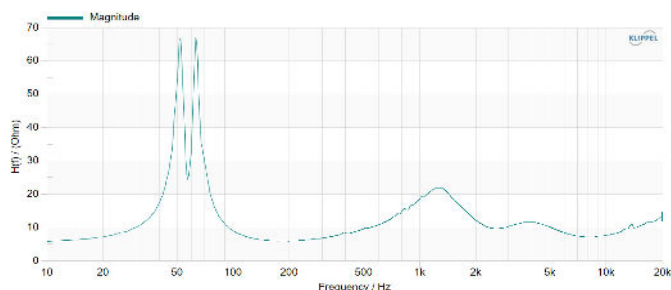
ARCHITECT/ENGINEERS SPECS

The OS80 loudspeaker is a product of Danley Sound Labs. The specified coverage pattern for the loudspeaker is 80° conical. Its operational frequency range is defined from 58 Hz to 18 KHz, with a tolerance of -10dB. When subjected to an input of 2.83V, the loudspeaker's sensitivity is 100 dB SPL at a standardized distance of 1 meter. The OS80 is capable of delivering peak audio levels of 133 dB SPL and continuous audio levels of 127 dB SPL, both referenced at 1 meter. The loudspeaker handles continuous power of 400 watts and withstands peak power levels up to 1600 watts. The construction material for the OS80 is high-density polyethylene.

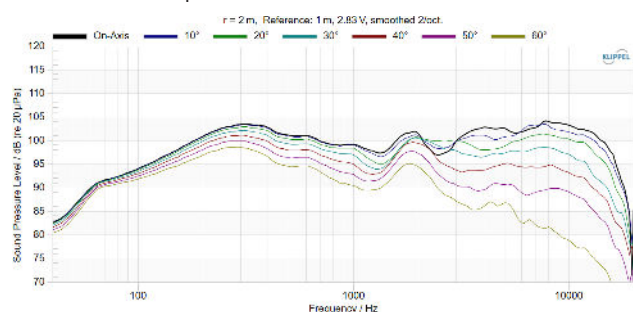
Frequency and Phase Response



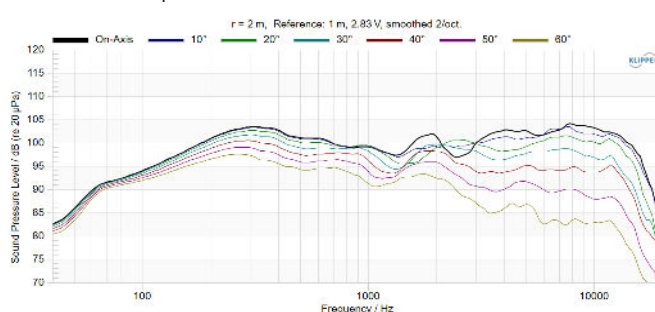
Impedance



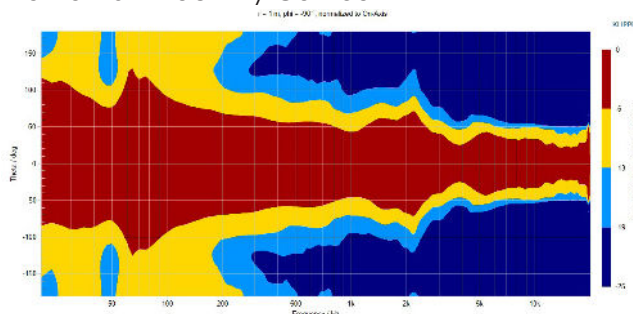
Horizontal Response



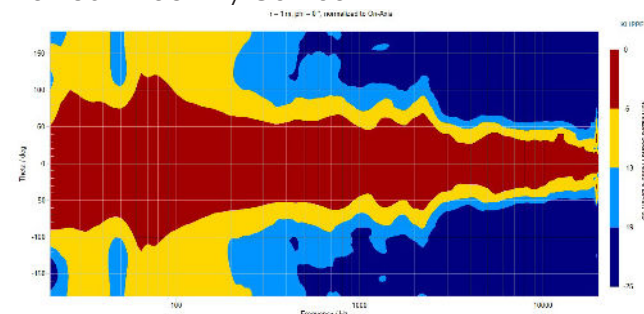
Vertical Response



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.

Rev. 20260707