

# OS80

## 2-way Outdoor Loudspeaker

**DANLEY**  
S O U N D L A B S



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 AES75**

Z Peak: 137.9 dB SPL | A Slow: 122.5 dB SPL | C Slow: 124.1 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. 20250507

# OS80

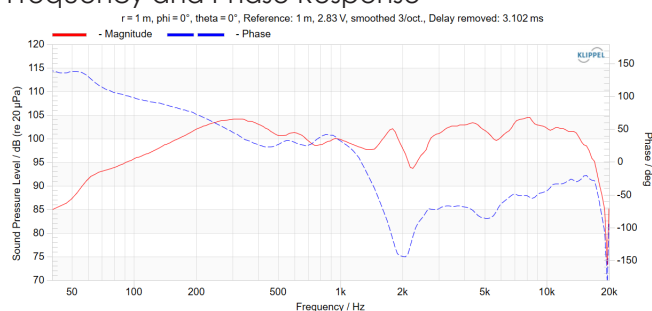
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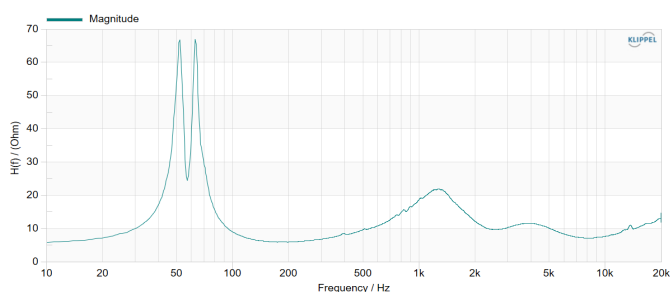
### ARCHITECT/ENGINEERS SPECS

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 127 dB SPL and continuous audio levels of 133 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.

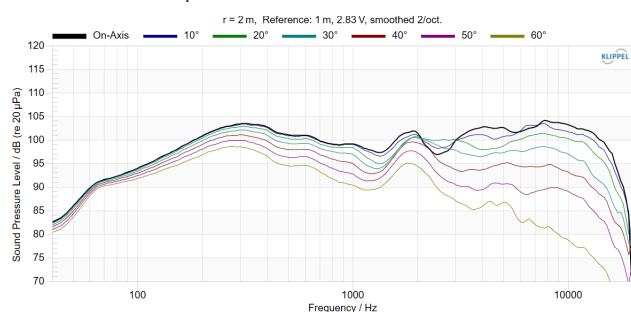
#### Frequency and Phase Response



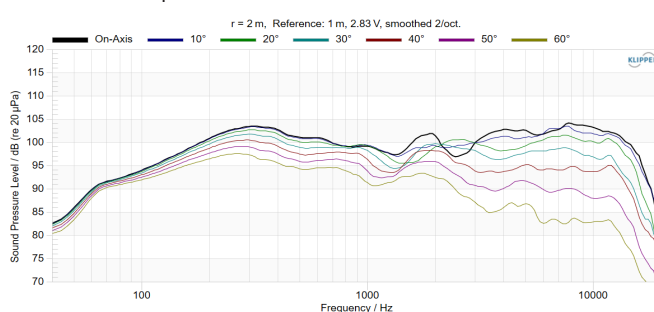
#### Impedance



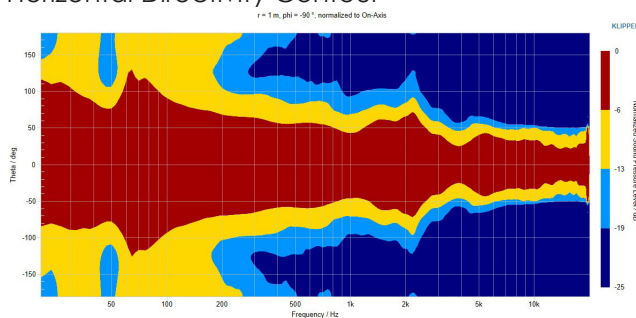
#### Horizontal Response



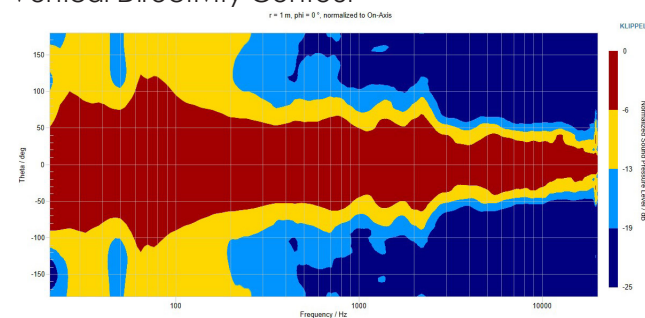
#### Vertical Response



#### 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. 20250507