GO2-8CX

2 Way Full Range Loudspeaker

DANLEY SOUND LABS

The SM100 utilizes the same patented Synergy Horn™ technology as the renowned SH Series but employs a molded horn technique to save weight. The SM100 features a 8"/1" coaxial driver mated to a wide 100 degree conical horn that maintains excellent pattern control to very low frequencies despite its compact size. Overall frequency response and fidelity are other hallmark features of the oldest full range loudspeaker in the Danley catalog.

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
Single channel amplified two-way loudspeaker

Operating Range
51Hz - 21Hz +/-3dB
30Hz - 24KHz - 10dB

Coverage Pattern
110

Transducers
1x 8" Coaxial driver

Power Handling
320 W Cont. | 1280 W Peak

Sensitivity measured at 1M @ 2.83V input
92 dB

Maximum SPL (continuous | peak)
117 dB | 123 dB

Maximum Linear SPL 1M AES75
Z Peak: 125.1 dB SPL | A Slow: 107 dB SPL | C Slow: 109.5 dB SPL

Impedance
8 Ohm

Recommended Power Amplifier
320 - 640 Watts

Physical Specifications

Connections (GO2-8CX-I/GO2-8CX-AT)
(2) Neutrik NL4 Speakon wired in Parallel
Pin 1+/- | Full Range
Pin 2+/- | Pass Through

Connections (GO2-8CX-AT)
1x 2 Conductor Lead-in Wire

Mounting / Suspension Points
(2) 3/8"-16 yoke points (GO2-8CX-I/GO2-8CX-AT)
(2) 1/4" U-bracket locking bolt (GO2-8CX-I/GO2-8CX-AT)
(4) 1/4"-20 Universal mount point (GO2-8CX-I/GO2-8CX-AT)

Dimensions / Weight
12.75 x 22 x 9 in. | 323.85 x 558.8 x 228.6 mm.
23 lbs | 10.43 Kg

Finish
Black polyurea coated enclosure w/ matte black grille, or
White polyurea coated enclosure w/ matte white grille
Gray UV resistant polyurea coated enclosure w/ matte grey grille

Enclosure Material
High Density Urethane

Options

GO2-8CX-AT	Aqua Tight Version
GO2-8CX-70V	Extreme Weather Version

Accessories Included

BRKT-GO2-8CX-U	U-Bracket for the GO2-8CX (Wall or Ceiling)

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Danley Sound Labs Inc.
2196 Hilton Drive, Suite E
Gainesville, GA 30501

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2 Way Full Range Loudspeaker

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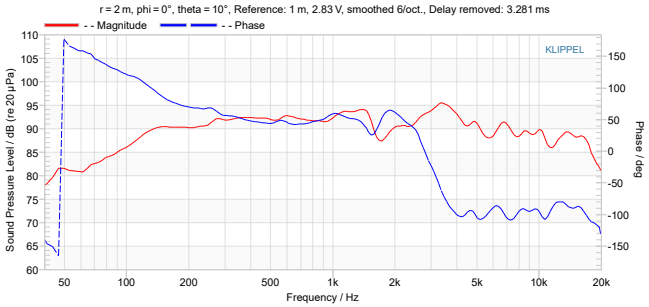
ARCHITECT/ENGINEERS SPECS

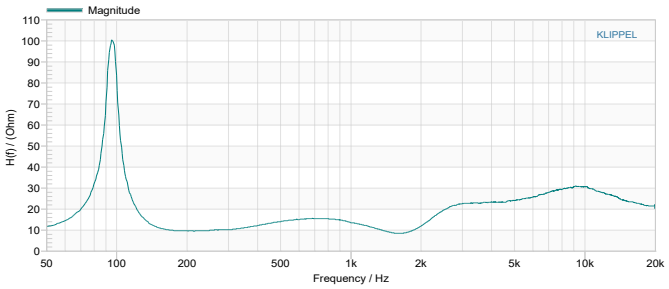
The loudspeaker shall utilize the Synergy patented crossover network. The coverage pattern shall be 100° conical. The loudspeaker shall have an operating range of +/- 3 dB 50 Hz – 21 kHz, +/- 10 dB 30 Hz – 24 kHz. Sensitivity of 92 dBSPL (measured at 1M @ 2.83V input). Output of 120 dBSPL Program/123 dBSPL Peak. Power handling shall be 320 Watts continuous 640 Watts program.

The loudspeaker shall be constructed of high density urethane. The Loudspeaker shall be the Danley Sound Labs GO-2-8CX.

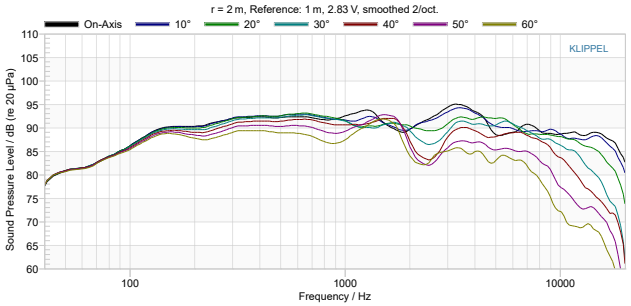
Frequency and Phase Response



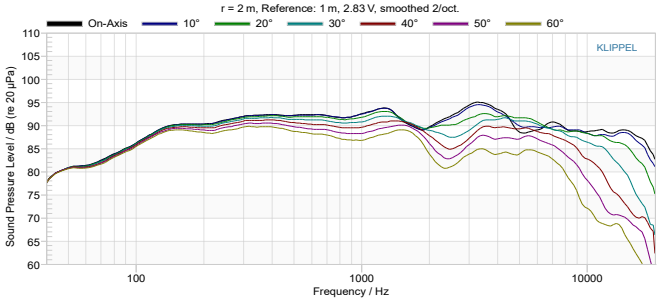
Impedance



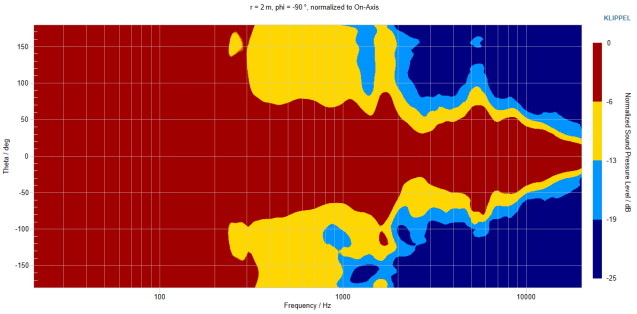
Horizontal Response



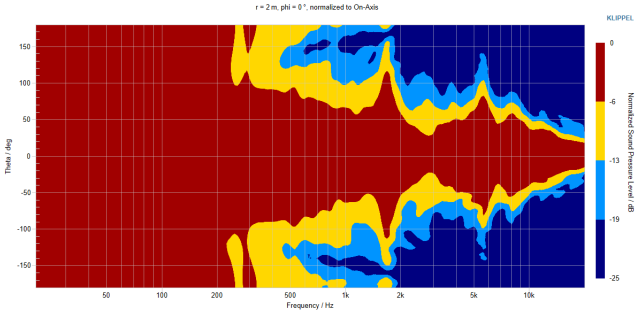
Vertical Response



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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