

SH110-4

2 Way Full Range Loudspeaker



The SH110-4 is a 2-way, passive loudspeaker designed as a front fill. The SH110-4 includes (2) x 8" LF drivers, and (1) x 1.4" exit HF compression driver, all mounted within a single 110° x 60° horn. Utilizing our patented Synergy Horn™ technology, we uniquely place drivers within the horn in unison with a Synergy crossover network to allow 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. Furthermore, out of band harmonic distortion is reduced by the use of acoustic low pass filters on the low and mid frequency 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 both equipped with multiple 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 freq 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

Two-way single channel amplified

Operating Range

360Hz - 15 KHz, -3dB

90 Hz - 20 KHz, -10dB

Coverage Pattern

110 x 60

Transducers

Low 2x8", High 1x1.4"

Power Handling

500 W Cont. | 2000 W Peak

Sensitivity

measured as 2.83V @1m distance

104 dB

Maximum SPL

(continuous | peak)

128 dB | 134 dB

M Noise

Comming Soon

Impedance

4 Ohm

Recommended Power Amplifier

1000 Watt

Physical Specifications

Connections (SH110-4-I/SH110-4-T)

(2) Neutrik NL4 Speakon wired in Parallel

Pin 1+/- | Full Range

Pin 2+/- | Pass Through

Connections (SH110-4-I-EW)

1x 2 Conductor Lead-in Wire

Mounting / Suspension Points

(2) M10 yoke points (SH110-4-I/SH110-4-I-EW)

M10 rigging points

Dimensions / Weight

24 x 10 x 15.5 in. | 611 x 254 x 194 mm.

42 lbs | 19 Kg

Finish

Black polyurea coated enclosure w/ matte black grille, or

White polyurea coated enclosure w/ matte white grille

Gray UV resistant painted enclosure w/ matte grey grille

Enclosure Material

18mm Baltic Birch, polyurea coated

Options

SH110-4-I-EW Extreme Weatherized Version

SH110-4-I Install Version

SH110-4-T Touring Version

Accessories

BRKT-95 U-Bracket for SH110-4/16 / SH95

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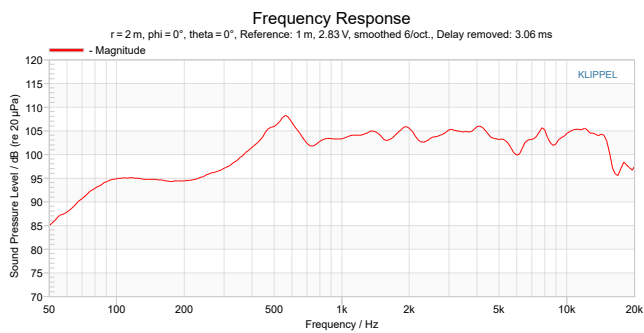


ARCHITECT/ENGINEERS SPECS

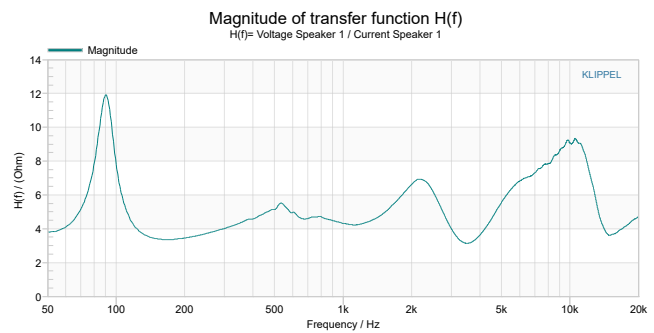
The loudspeaker shall utilize the Synergy Horn patented enclosure covering two pass bands. The coverage pattern shall be 110° horizontal x 60° vertical. The loudspeaker shall have an operating range of 90 Hz - 20kHz - 10 dB. Sensitivity of 104 dB SPL @ 1m. Output of 128 dB SPL/134 dB SPL Peak. Power handling shall be 500 Watts continuous, 2000 Watts peak. The impedance shall be nominal 4 ohms.

The loudspeaker shall be constructed of 13 ply Baltic birch, water resistant Polyurea coated, properly braced for the intended use and a rugged steel grill. The connectors shall be Neutrik NL4. The Loudspeaker shall be the Danley Sound Labs SH110-4.

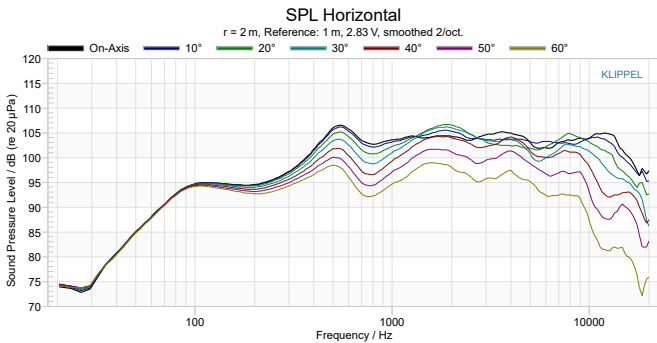
Sensitivity



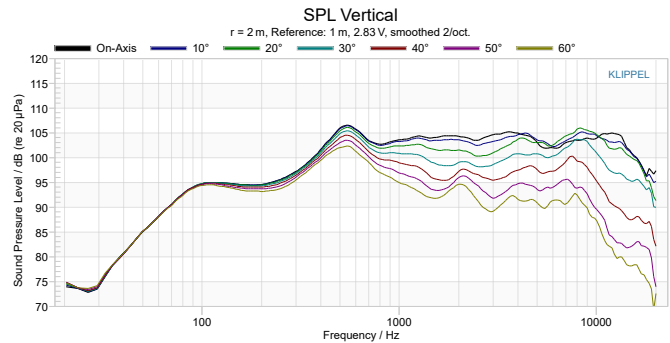
Impedance



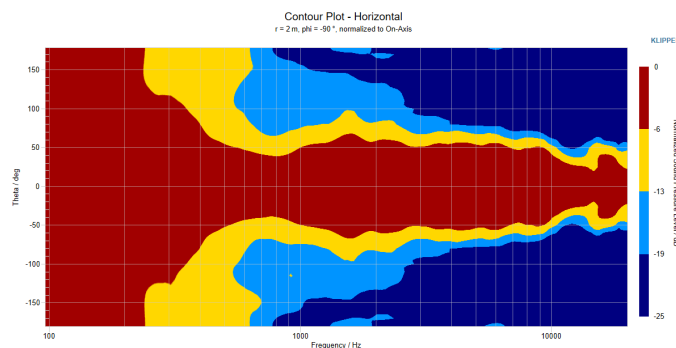
Horizontal Response



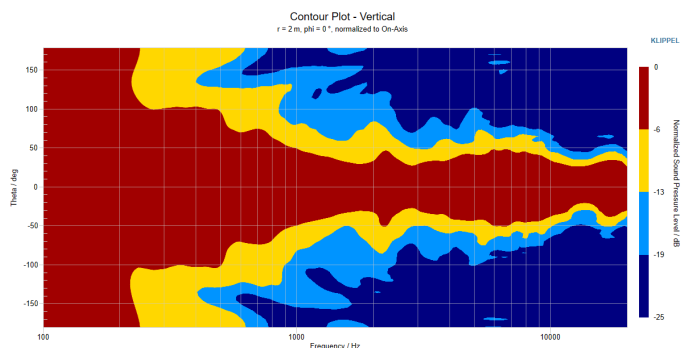
Vertical Response



Horizontal Directivity Contour



Vertical Directivity Contour



Rev. 202305022