SR-2408iw Loudspeaker

KEY FEATURES

- Professional 8-inch 500W Woofer with Neodymium Motor System
- Dual Professional 4-inch High-Output Midrange Divers
- Professional 1.5-inch Compression Driver on PRO Theorem Wide Dispersion Axi-symmetric Waveguide
- Wide Bandwidth from 4" Deep Enclosure: 45Hz - 22kHz, -6dB
- Designed for Installation in 2 x 4 Stud Bay
- 8th Order Crossover Slopes
- High Sensitivity Design: 92dB LF / 99dB MF / 108dB HF / 110 HF 40-degree
- Maximum Output: 119dB
- 4-ohm Nominal Impedance
- DSP Performance Optimized
- Requires Bi- or Single-Amplification via PRO Loudspeaker Controller
- **PRO PIVOT AIMING BRACKET COMPATIBLE**

DESCRIPTION

The SR-2408iw is a very high-output yet versatile in-wall loudspeaker suitable for retro-fit or new construction. Its innovative shallow enclosure fits neatly into a 2 x 4 stud bay while delivering a nearly undetectable designer-friendly installation when finished with its bezel-less perforated metal grille. Paintable, and fitting nearly flush to the sheetrock, the SCRS-2408iw cleanly disappears into its surroundings.

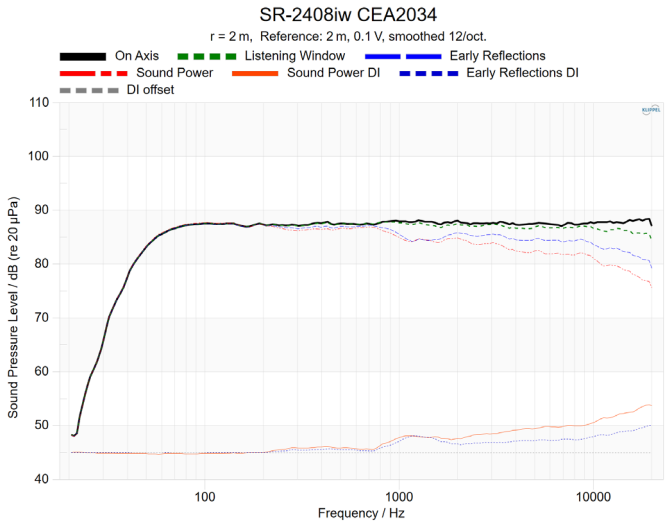
The SR-2408iw can be configured with 0-degree straight-firing axi-symmetric, or 40-degree asymmetric waveguides which aim the sound at a 40-degree angle to the loudspeaker main axis. This allows the sound to be "aimed" at the reference listening position while the speaker is mounted flush in a 2x4 architectural wall. The angled waveguide is ideal for residential rooms or yachts where space is limited and aiming speakers is particularly challenging. In more spacious installations, it can also be adapted using PRO's pivot bracket allowing the installer to mount it to a surface and aim it at a specific listening position.

At only 4-inches deep, and with all-aluminum construction, the SR-2408iw is ideal for installations in yachts or elite home theater (including DCI) as mains, sides, rears, surrounds, or as heigh channels for Dolby Atmos and other immersive audio installations. When mated to its companion PRO loudspeaker controller, proprietary Digital Signal Processing (DSP) is employed for high-resolution frequency shaping, boundary effects correction, and driver time alignment. Maximum output is 119dB; making the SR-2408iw the ultimate choice for all in-wall and in-ceiling loudspeaker applications.

SPECS

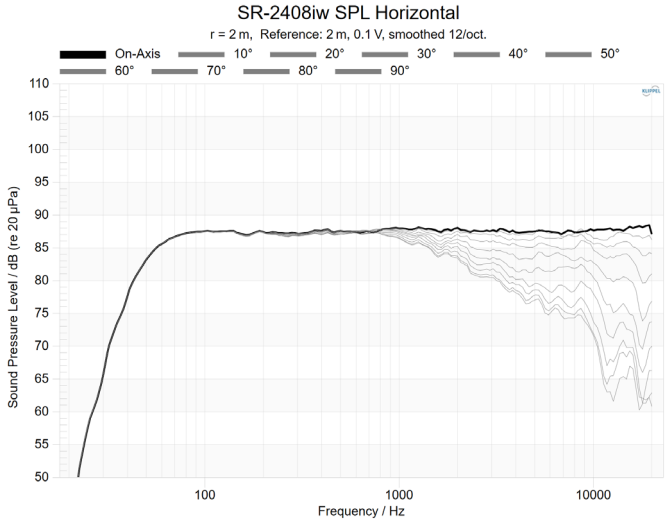
APPLICATION:	Compact high-output aimable in-wall speaker with frameless grille
LF SECTION:	Professional 8" long-throw woofer
MF SECTION:	Two Professional 4" midrange drivers
HF SECTION:	Professional 1.5" compression driver on PRO Theorem
CROSSOVER:	Tri-amplified
POWER HANDLING:	500W LF / 400W MF / 120W HF
SENSITIVITY:	92 dB LF/ 99dB MF / 108dB HF / 110HF 40-degree
POWER REQUIREMENTS:	Single and bi-amplification via PRO Amplified Loudspeaker controller
POWER RECOMMENDATION:	200W, 300W or 450W LF 100W or 200W HF
FREQUENCY RANGE:	45Hz – 22kHz, -6dB
MAXIMUM OUTPUT:	119dB
NOMINAL IMPEDANCE:	8-ohms LF / 4-ohms MF / 8-ohms HF
DIMENSIONS:	26.375"H x 10.25"W x 3" D (enclosure)

SR-2408iw Measurements



ON-AXIS FREQUENCY RESPONSE and CEA2034 "SPINORAMA"

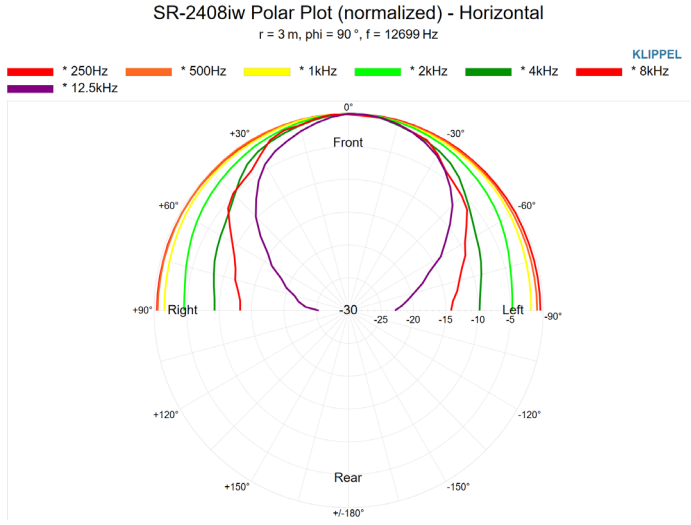
The CEA2034 or "Spinorama" data encapsulates the performance of a loudspeaker in a typical room. The SR-2408iw "On-axis" and "Listening Window" and Sound Power responses are ruler-flat, exactly the response that delivers accurate timbre, unmatched detail and coherence to the listener's ears.



0-90 DEGREE HORIZONTAL OFF-AXIS PLOT

The "Off-Axis" SPL plot depicts the response of the loudspeaker at progressively more off-axis angles together with the on-axis axis response. This shows how the sound "changes" when you're not sitting directly on-axis and also give a good view of the coherence of the reflected energy in the room.

The SR-2408iw exhibits uniform, controlled dispersion all the way to 90 degrees off axis.

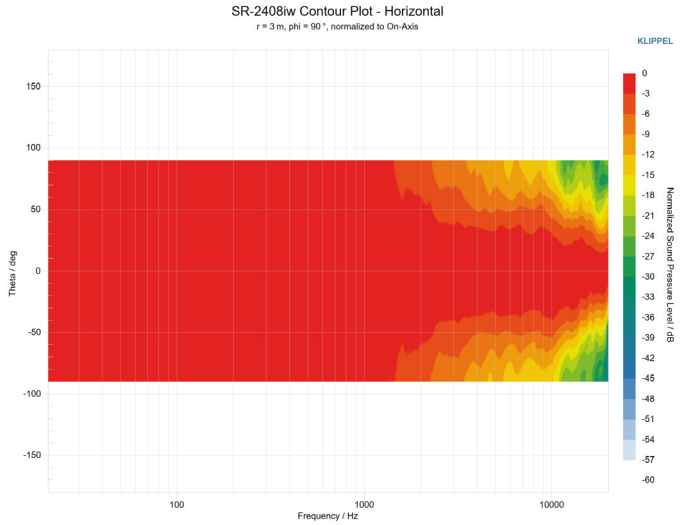


0-180 POLAR RESPONSE - HORIZONTAL

The Polar Response plots the off-axis disperion of the speaker at discreet frequencies on a 360-degree polar "map". Amplitude is shown concentric cirlces with 0dB (reference level) at the outer ring with decreasing amplitude toward the center of the circular plot. 0 degrees is the main axis.

Since the SR-2408iw is an in-wall design, only -90° to +90° is shown.

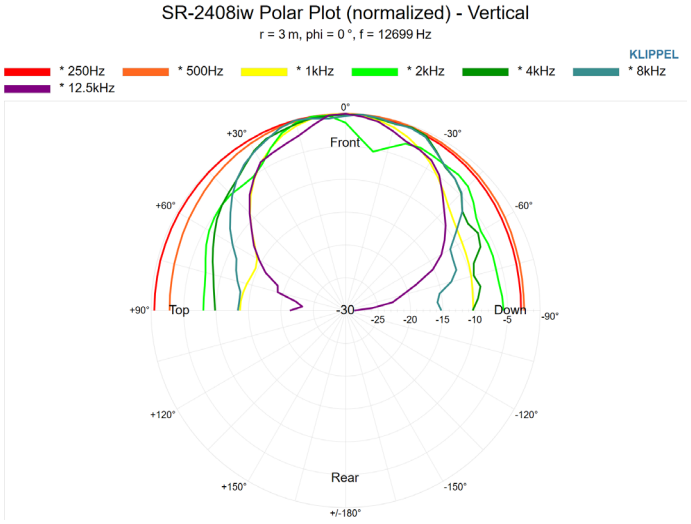
SR-2408iw Measurements



HORIZONTAL DIRECTIVITY CONTOUR PLOT

The "Directivity Contour Plot" shows the speaker's dispersion characteristics using color to represent output magnitude. A quick inspection of the sb25's contour plot reveals its very wide, but very uniform dispersion.

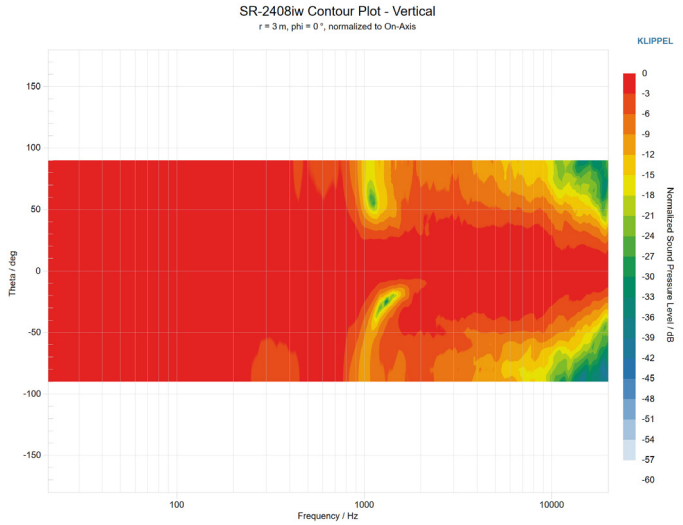
Since the SR-2408iw is an in-wall design, only -90° to +90° is shown.



0-180 POLAR RESPONSE - VERTICAL

The Polar Response plots the off-axis disperion of the speaker at discreet frequencies on a 360-degree polar "map". Amplitude is shown concentric cirlces with 0dB (reference level) at the outer ring with decreasing amplitude toward the center of the circular plot. 0 degrees is the main axis.

Since the SR-2408iw is an in-wall design, only -90° to +90° is shown.



VERTICAL DIRECTIVITY CONTOUR PLOT

The "Directivity Contour Plot" shows the speaker's dispersion characteristics using color to represent output magnitude. A quick inspection of the sb25's contour plot reveals its very wide, but very uniform dispersion.

Since the SR-2408iw is an in-wall design, only -90° to +90° is shown.