



SA2R

Invisible In-Wall/In-Ceiling Speaker

Recommended Installations:

Invisibly flush-mounted into walls or ceilings

Recommended Environment:

Indoor or weather-protected outdoor

Required Accessories:

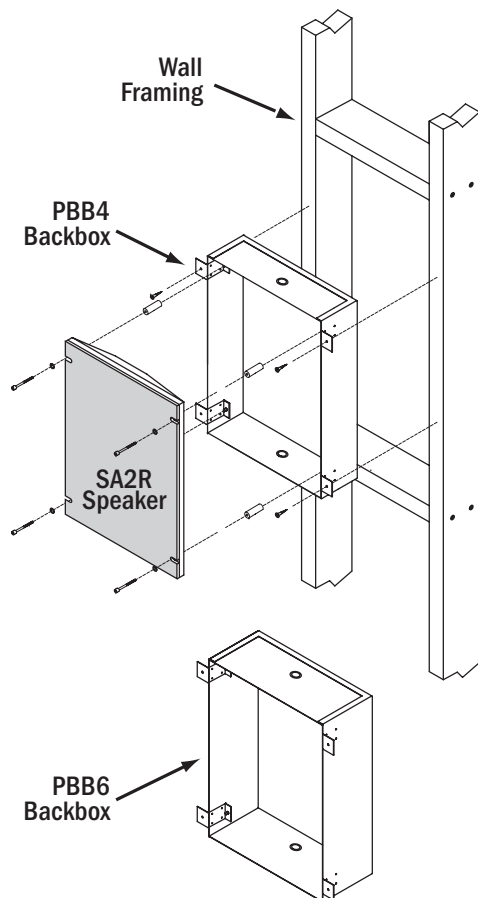
- PBB4 or PBB6 backbox

Recommended Accessories:

- ICCT™ active electronic correction and response compensation processor
- Power Amplifiers such as Sonance® Sonamp® amplifiers with BBE® Sound Enhancement



Installation Example:



A Truly Invisible, Extended-Bandwidth, Wide-Dispersion Loudspeaker System

The Sound Advance® SA2R is a two-way, full-range planar loudspeaker system designed for use in residential installations. (For commercial installations we recommend using the SA2C version, which is transformer-coupled.)

Proprietary structural and engineering features make it possible to invisibly install the SA2R in almost any standard wood/metal stud wall or ceiling: the speaker essentially becomes an integral part of the wall or ceiling surface.

Patented Planar Diaphragm Technology™ allows SA2Rs that have been properly installed in a ceiling or wall boundary to radiate sound in a 140° hemispherical pattern with smooth, even coverage throughout its bandwidth

The Sound Advance SA2R employs a flat rigid diaphragm, approximately one-half inch thick, that installs into a standard wall cavity replacing the equivalent surface area of gypsum board. The supplied flat vellum overlay which is applied to the loudspeaker surface during installation may be finished with water-soluble materials — such as latex paints — to match any color or decor requirement, using conventional brush-on, roller, or airless spray application systems. Additionally, the SA2R may be covered using wallpaper, light-weight vinyl wall coverings and selected textured coatings. (Please contact the factory before applying any textured coating to Sound Advance products).

The SA2R's exclusive installation methods, including the use of matching surface treatments, uniquely allows the speaker to be made truly invisible. This capability allows the loudspeaker system to be placed wherever optimal acoustics dictate, eliminating any visual concerns.

The SA2R utilizes a 12dB per octave crossover centered at 2kHz, with both low-pass and high-pass sections. Each loudspeaker contains two independent protection circuits (high-frequency and low-frequency) that automatically reset after an overload condition has been removed. Impedance is 4 ohms nominal.

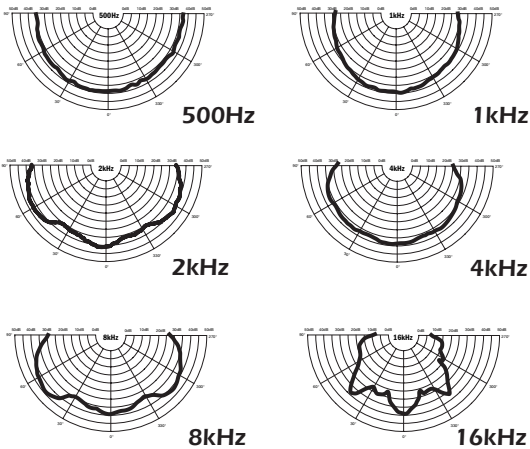
Warranty:

Sound Advance® warrants the SA2R to be free of any defect in material of workmanship for a period of 15 years. Should a properly-installed SA2R speaker fail, Sound Advance will replace the device at no charge, including shipping costs and labor for removal and reinstallation.

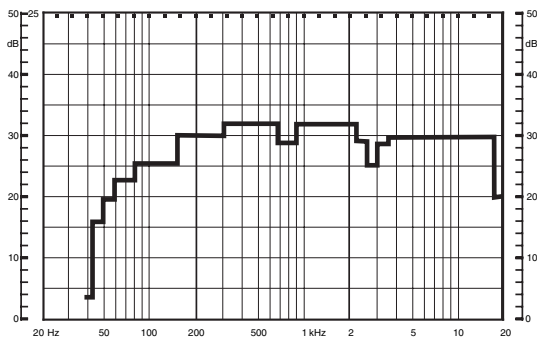
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Polar Response:



On-Axis Frequency Response:



Performance Specifications:

Radiating Surface:	294.0 in ² (1869.0cm ²) Planar Diaphragm
Tweeter System:	0.82 lb (0.37 kg) Magnet with 1.02" (26mm) voice coil, 12dB/octave high-pass crossover @ 2kHz
Woofer System:	0.82 lb (0.37 kg) Magnet with 1.02" (26mm) voice coil; 12dB/octave low-pass crossover @ 2kHz
Frequency Response:	70Hz – 20kHz ±4dB
Power Rating:	60 Watts RMS as per EIA standard RS-426-A
Pressure Sensitivity:	90dB SPL @ 1 meter
System Impedance:	4 ohms nominal; 3.5 ohms minimum
Dispersion:	140° hemispherical, up to 20kHz (see Polar Response graphs)
Finish:	Primed surface ready to receive supplied vellum overlay
Overload Protection:	Two independent self-resetting gel switches (low frequency and high frequency)
Dimensions (H x W x D):	21" x 14" x 3" (534mm x 350mm x 76mm)
Product Weight:	7.7 lbs. (3.5kg) each
Shipping Weight:	16 lbs. (7.3kg) each, including finishing supplies and vellum overlay
Included Supplies:	Vellum overlay, joint compound, overlay adhesive, measuring cup, rubber standoffs, screws, washers, hex key

Required accessories:

PBB4:	4" deep backbox for wall installation. 21¼" H x 14¼" W x 3¼" D (540mm x 362mm x 83mm) 8.4 lb (3.8kg)
PBB6:	6" deep backbox for ceiling installation. 21¼" H x 14¼" W x 5¼" D (540mm x 362mm x 133mm) 10.1lb (4.6kg)

Architects and Engineers Specification:

The aesthetic SA2R loudspeaker shall be a two-way, full-range device, producing frequencies from 70Hz to 20 kHz. Total radiating surface shall be 294.0 in² (1869.0cm²) and high frequency dispersion shall be 140° to at least 20kHz in both horizontal and vertical planes.

The loudspeaker system shall have a sensitivity of 90dB (1W/1m), with a power rating of 60 watts RMS as per EIA standard RS-426-A. The loudspeaker shall have independent self-resetting custom gel switch protection devices for the high-frequency driver and the low-frequency driver.

The loudspeaker shall have an exterior frame constructed of extruded aluminum that is 21" (533mm) high by 14" (356mm) wide and 3" (76mm) in total unit depth, not including backbox. The loudspeaker shall fit into standard wall and ceiling construction and occupy an area of approximately 2.0 ft² (0.19m²).

One (1) loudspeaker with normal mounting hardware shall weigh 7.7 lbs. (3.49kg).

The loudspeaker shall be the Sound Advance SA2R or equivalent.



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