

SOUND ADVANCES

With unprecedented timbral accuracy, stunning dimensional imaging and striking bass articulation, SA speakers provide breathtaking high-end sound. Refreshingly, however, their price won't take your breath away. Instead, we predict a sigh of relief!

WORLD'S SMALLEST, MOST POWERFUL 8" (210 mm) REFERENCE IN-CEILING SPEAKER

Once again, Paradigm outperforms the industry in the reference category. The SA-15R is not much larger than a potlight yet it contains a state-of-the-art 8" bass/midrange drive unit. Other high-end in-ceiling/in-wall speakers of this size use smaller, less powerful units! The majority are certainly *not* Reference quality.

REFERENCE GUIDED SOUNDFIELD™ SYSTEM: SA-15R-30

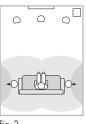
Allows you to guide a wide arc of reference quality sound toward a specific area, much the same way we guide a floodlight to fill an area with light. Drivers sit at a 30° angle from the ceiling so that you can adjust the direction of sound (Fig. 1), without compromising the crucial sound dispersion pattern between drivers, or the interaction between drivers and baffle, thereby preserving sonic integrity. Ideal for use as surround and/or rear speakers. Guiding the sound towards the sides or rear of the room creates an enveloping, reverberant soundfield (Fig. 2) similar to that provided by Paradigm ADP (see SA-ADP) speakers.

PLACEMENT

Top view of rooms:







Fia. 2

"OUTSTANDING ... the most robust mounting system of any in-wall speaker that I've ever reviewed ... excellent sound ... three dimensional with a keen sense of space and presence."

- Gary Altunian, The Perfect Vision





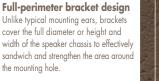
VC-150 Volume Control (see the specification pages for full details)













State-of-the-Art G-PAL™ Gold-**Anodized Pure-Aluminum Domes.** Ferro-fluid cooled and damped. Exceptionally rigid, low-mass domes with treated textile suspensions ensure extremely uniform and instantaneous high-frequency response.



State-of-the-Art S-PAL™ Satin-**Anodized Pure-Aluminum Cones.** High stiffness-to-mass ratio. Outstanding internal damping. The result? Remarkable midrange clarity, superb extended bass and tremendous freedom from unwanted resonances and distortions.



State-of-the-Art Mineral-Filled Co-Polymer Polypropylene Bass Cones. Highly damped and tremendously rigid for tight, welldefined and deep low-frequency response with a weight and authority that does justice to music and movies.



High-Pressure Ultra-Rigid™ **Die-Cast Aluminum Chassis** and Mounting Brackets (selected models). Dramatic reduction in resonances and standing waves. Aluminum chassis also serves as a very effective heatsink.



High-Strength GRIP™ Glass-Reinforced Injection-Molded Polymer Chassis and Mounting Brackets (selected models). Increased strength and the rigid design reduce the problems associated with structural flexibility mentioned earlier in this catalog.





SA-LCR 3



NOTE: SA-LCR 3 is recommended for professional installation only.

"... a stunning testament to the progress in-wall speakers have made. We're pleased Paradigm is at the forefront of this acoustic evolution."

- Paradigm Design Team



90° rotation when used as the center channel

A FULLY INTEGRATED APPROACH TO STATE-OF-THE-ART IN-WALL MUSIC AND HOME THEATER

Beyond the hype, other in-wall speaker brands simply can't come close to this kind of performance. The SA-LCR 3 in-wall system is designed for music and movie enthusiasts who demand the award-winning performance delivered by our freestanding Paradigm Reference Studio speakers, but within a minimalist aesthetic.

EXCEPTIONAL INSTALLATION FLEXIBILITY

... install three SA-LCR 3's in the wall behind a perforated screen or in a Left/Center/Right configuration around an on-wall display. Used as a center channel, the unified tweeter/midrange assembly can be rotated 90° (see above). The precision and accuracy of the crossover design maintains the proper dispersion pattern between drivers and the interaction between drivers and baffle, preserving sonic integrity.

WHY A BACKBOX IS AN INTEGRAL PART OF THE IN-WALL DESIGN?

Installing the high-end SA-LCR 3 into its backbox serves a number of purposes:

- Required support for the speaker mounting frame and baffle assembly;
- In concert with the IMS/SHOCK-MOUNT[™] system (see our website at www.paradigm.com for more details) removes opportunity for unwanted resonances or standing waves to color output;
- Ensures optimum volume—improving overall sound quality, promoting deep, clear and concise bass response while helping to reduce distortion to inaudible levels;
- \bullet $\;$ Reduces acoustic bleed-through to adjacent rooms.

Installation into BX-LCR 3 backbox





"Paradigm Reference ADP speakers turn your listening into a magical experience. They put the 'theater' in home theater and make music sound 'live'."

- Paradigm Design Team

OUR INDUSTRY-LEADING ADP™ SURROUND/REAR TECHNOLOGY IN A REFERENCE IN-WALL!

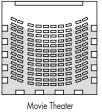
For years we were asked to design our ADP (Adapted Dipole) technology around an in-wall application. But an ADP in-wall speaker? Hmm! That was a tough one. Listening test after listening test and a host of 'almost theres' ended up on the testing room floor. That's because we're perfectionists. We wanted the whole package: a large reverberant, non-localized soundfield with full-range response (and yes, we do mean FULL RANGE!), powered by state-of-the-art driver technology. All of it supported by Paradigm's Ultra-Rigid™ mounting systems. Our ADP in-wall design was born ... delivering surround sound the way it was meant to be heard:

Conventional forward-radiating speakers cannot reproduce movie theater surround sound in your home. If they are loud enough for their sound to blend with the front speakers they draw attention to themselves. Turn them down so they don't distract you and they won't blend with the fronts. ADP reverberant surround/rear speakers are a whole different story:

- Just like movie theater speakers, Reference ADP speakers envelop you in sound without drawing your attention away from the movie you're watching;
- They add size and dimension to the soundstage;
- They ensure a seamless transition when sounds and effects move from front and center speakers to surround and rear speakers;
- They're ideal for multichannel music too! Their large non-localized soundfield adds multidimensional realism to the acoustic space.

PLACEMENT

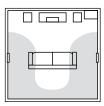
Top view of rooms:



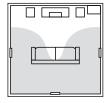
Movie Theater Surrounds



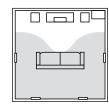
Forward-Radiating Surrounds



Reference ADP Reverberant Surrounds for 5.1 Configuration



Reference ADP Reverberant Surrounds and Rear for 6.1 Configuration



Reference ADP Reverberant Surrounds and Rears for 7.1 Configuration





SA Series	SA-10R	SA-15R		SA-15R-SM	SA-15R-30 GUIDED SOUNDFIELD™SYSTEM	SA-25
Design	2-driver, 2-way in-ceiling/in-wall, GRIP™ chassis/ mounting bracket	2-driver, 2-way in mounting bracket	ceiling/in-wall, GRIP™ chassis/	Single speaker system with stereo L/R inputs, 3-driver, 2 x 2-way in-ceiling/in-wall, GRIP™ chassis/mounting bracket	2-driver, 2-way in-ceiling, drivers mounted at 30° relative to mounting surface, GRIP™ chassis/mounting bracket	2-driver, 2-way in-wall/in-ceiling, die-cast chassis/ mounting bracket
Crossover	3rd-order electro-acoustic at 2.5 kHz	3rd-order electro-c	icoustic at 2.5 kHz	3rd-order electro-acoustic at 2.5 kHz	3rd-order electro-acoustic at 2.5 kHz	3rd-order electro-acoustic at 2.0 kHz
High-Frequency Driver(s)	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate	25-mm (1 in) G-F die-cast heatsink	AL™ dome, aceplate	Two 25-mm (1 in) G-PAL™ domes, die-cast heatsink faceplate	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate
Bass/Midrange Driver	165-mm (6-1/2 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, GRIP™ chassis	210-mm (8 in) S voice coil, GRIP™	-PAL™ cone, 38-mm (1-1/2 in) chassis	210-mm (8 in) S-PAL™ cone, dual 38-mm (1-1/2 in) voice coil, GRIP™ chassis	210-mm (8 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, GRIP™ chassis	165-mm (6-1/2 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, die-cast chassis
Bass Driver	n/a	n/a		n/a	n/a	n/a
Low-Frequency Extension*	40 Hz (DIN)	37 Hz (DIN)		37 Hz (DIN)	37 Hz (DIN)	39 Hz (DIN)
Frequency Response: On-Axis 30° Off-Axis	±2 dB from 60 Hz — 22 kHz ±2 dB from 60 Hz — 20 kHz	±2 dB from 58 H ±2 dB from 58 H		±2 dB from 58 Hz — 22 kHz ±2 dB from 58 Hz — 17 kHz	±2 dB from 58 Hz — 22 kHz ±2 dB from 58 Hz — 17 kHz	±2 dB from 58 Hz — 22 kHz ±2 dB from 58 Hz — 20 kHz
Sensitivity — Room/Anechoic	91 dB / 87 dB	92 dB / 88 dB		92 dB / 88 dB	92 dB / 88 dB	92 dB / 88 dB
Suitable Amplifier Power Range	15 — 150 watts	15 – 160 watts		15 — 160 watts Mono; 15 — 80 watts/channel Stereo Input	15 — 160 watts	15 — 160 watts
Maximum Input Power†	90 watts	100 watts		100 watts Mono; 50 watts/channel Stereo Input	100 watts	110 watts
Impedance	Compatible with 8 ohms	Compatible with 8	3 ohms	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input	Compatible with 8 ohms	Compatible with 8 ohms
External Dimensions: (D or H x W)	19.5 cm / 7-11/16 in	22.6 cm / 8-15,	/16 in	22.6 cm / 8-15/16 in	29.6 cm / 11-10/16 in	28.4 cm x 19.8 cm / 11-1/4 in x 7-13/16 in
Minimum Mounting Depth**	8.7 cm / 3-7/16 in	9.0 cm / 3-1/2	in	9.0 cm / 3-1/2 in	14.3 cm / 5-10/16 in	7.4 cm / 2-15/16 in
Cutout Dimensions: (D or H x W)	17.2 cm / 6-3/4 in	20.0 cm / 7-14,	/16 in	20.0 cm / 7-14/16 in	27.0 cm / 10-10/16 in	26.0 cm x 17.2 cm / 10-1/4 in x 6-3/4 in
Minimum Internal Volume Required	12 L / 0.42 cu ft	20 L / 0.70 cu f	t	20 L / 0.70 cu ft	20 L / 0.70 cu ft	12 L / 0.42 cu ft
Weight (unpacked)	2.0 kg / 4.3 lb each	2.2 kg / 4.8 lb e	ach	5.0 kg / 11 lb each	2.9 kg / 6.4 lb each	3.6 kg / 7.8 lb each
Finish	White, paintable	White, paintable		White, paintable	White, paintable	White, paintable
Pre-Construction Bracket (sold sep.)	PB-7R; retrofit included	PB-8R; retrofit inc	luded	PB-8R; retrofit included	PB-1 OR; retrofit included	PB-7x10; retrofit included
	SA-30		SA-35			
Design	2-driver, 2-way in-wall/in-ceiling, die-cast chassis/mounting l	oracket	3-driver, 2-1/2-way in-wall/in-ceiling, die	-cast chassis/mounting bracket		
Crossover(s)	3rd-order electro-acoustic at 2.0 kHz		3rd-order electro-acoustic at 2.0 kHz, 2nd (lower bass driver)	l-order electro-acoustic at 500 Hz		
High-Frequency Driver(s)	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate		25-mm (1 in) G-PAL™ dome, die-cast hea	tsink faceplate		
Bass/Midrange Driver(s)	210-mm (8 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, of	lie-cast chassis	210-mm (8 in) S-PAL™ cone, 38-mm (1-	1/2 in) voice coil, die-cast chassis		
Bass Driver	n/a		210-mm (8 in) mineral-filled polypropylet voice coil, die-cast chassis	ne cone, 38-mm (1-1/2 in)		
Low-Frequency Extension*	35 Hz (DIN)		34 Hz (DIN)			
Frequency Response: On-Axis 30° Off-Axis	±2 dB from 48 Hz — 22 kHz ±2 dB from 48 Hz — 20 kHz		±2 dB from 46 Hz — 22 kHz ±2 dB from 46 Hz — 20 kHz			
Sensitivity — Room/Anechoic	93 dB / 89 dB		96 dB / 92 dB			

15 - 250 watts

Compatible with 8 ohms

PB-8x19; retrofit included

7.1 kg / 15.6 lb each

51.0 cm x 23.1 cm / 20-1/16 in x 9-1/16 in

48.6 cm x 20.7 cm / 19-2/16 in x 8-3/16 in

180 watts

7.6 cm / 3 in

40 L / 1.4 cu ft

White, paintable

Sensitivity — Room/Anechoic

Suitable Amplifier Power Range

Maximum Input Power†

External Dimensions: (D or H x W)

Cutout Dimensions: (D or H x W)

Pre-Construction Bracket (sold sep.) PB-8x12; retrofit included

Minimum Internal Volume Required 20 L / 0.70 cu ft

Minimum Mounting Depth**

Weight (unpacked)

Finish

Impedance

15 - 180 watts

Compatible with 8 ohms

7.4 cm / 2-15/16 in

3.8 kg / 8.4 lb each

White, paintable

31.9 cm x 23.2 cm / 12-9/16 in x 9-2/16 in

29.4 cm x 20.5 cm / 11-1/2 in x 8-1/16 in

120 watts

	SA-ICR 3
Design	4-driver, 3-way in-wall left/center/right system, critical bracing and volume supplied by required Paradigm® BX-LCR 3 backbox (sold sep.)
Crossovers	3rd-order electro-acoustic at 2.5 kHz, 2nd-order electro-acoustic at 450 Hz (bass drivers)
High-Frequency Driver	25-mm (1 in) G-PAL™ dome, die-cast heatsink face-plate, IMS/SHOCK-MOUNT™
Midrange Driver	115-mm (4-1/2 in) S-PAL™ cone, 25-mm (1 in) voice coil, AVS™ die-cast heatsink chassis, IMS/SHOCK-MOUNT™
Bass Drivers	Two 178-mm (7 in) mineral-filled polypropylene cones, 38-mm (1-1/2 in) voice coils, AVS™ die-cast heatsink chassis, IMS/SHOCK-MOUNT™
Low-Frequency Extension*	42 Hz (DIN)
Frequency Response: On-Axis 30° Off-Axis	±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 20 kHz
Sensitivity — Room/Anechoic	93 dB / 89 dB
Suitable Amplifier Power Range	15 – 200 watts
Maximum Input Power†	150 watts
Impedance	Compatible with 8 ohms
Outer Dimensions of Speaker Frame: (H x W)	57.7 cm x 23.0 cm 22-3/4 in x 9-2/16 in
Weight (unpacked)	Speaker: 6.8 kg / 15 lb each; Backbox: 9.1 kg / 20 lb each
Finish	White, paintable
Required Backbox (sold sep.)	BX-LCR 3

	SA-ADP		
Design	7-driver, 3-way in-wall surround/rear, Ultra-Rigid™ die-cast chassis/mounting bracket (optimized reverberant soundfield)		
Crossover(s)	3rd-order electro-acoustic at 2.5 kHz, 2nd-order electro-acoustic at 550 Hz		
igh-Frequency Driver(s)	Two 25-mm (1 in) G-PAL™ domes, dual super-neodymium magnets, die-cast heatsink chassis		
nss/Midrange Driver(s)	Four 29-mm (1-1/8 in) x 102-mm (4 in) S-PAL™ cones, two 14-mm (9/16 in) four-layer voice coils, dual super-neodymium magnets, AVS™ die-cast heatsink chassis, IMS/SHOCK-MOUNT™		
ass Driver	210-mm (8 in) co-polymer mineral-filled polypropylene cone, 38-mm (1-1/2 in) dual-loyer voice coil, massive ceramic/ferrite magnet, AVS™ die-cast heatsink chassis, IMS/SHOCK-MOUNT™		
w-Frequency Extension*	40 Hz (DIN)		
equency Response: <i>On-Axis</i> <i>30° Off-Axis</i>	±2 dB from 54 Hz — 20 kHz (reverberant soundfield)		
nsitivity — Room/Anechoic	90 dB / 86 dB		
table Amplifier Power Range	15 – 180 watts		
ximum Input Power†	120 watts		
pedance	Compatible with 8 ohms		
ternal Dimensions: (D or H x W)	51.0 cm x 23.1 cm / 20-1/16 in x 9-1/16 in		
nimum Mounting Depth**	7.6 cm / 3 in		
tout Dimensions: (D or H x W)	48.6 cm x 20.7 cm / 19-2/16 in x 8-3/16 in		
e-Construction Bracket (sold sep.)	PB-8x19; retrofit included		
nimum Internal Volume Required	20 L / 0.70 cu ft		
eight (unpacked)	5.4 kg / 11.8 lb each		
nish	White, paintable		