

# Introducing Paradigm® Reference SA Series v.2

25 years of high-end research and technology lie behind *our* in-wall/in-ceiling speakers. What's behind those other brands?



SA Series v.2 speakers can be painted to match any décor

Despite what other brands would have you believe, the same design criteria that make for the best-sounding floorstanding, bookshelf, and on-wall speakers also apply to in-wall/in-ceiling speakers. That's why behind our new SA Series v.3 you'll find the same high-end state-of-the-art technology used in our Paradigm® Reference freestanding speakers:

## 2 NEW MODELS = 2 NEW PARADIGM® REFERENCE QUALITY SOLUTIONS!

**SA-15R-SM.** Stereo/Mono model with Paradigm's proprietary Dual-Directional Soundfield™. Provides rich pure-fidelity 2-channel sound from a single SA Series high-end speaker.

**SA-15R-30 with Unique High-Frequency PhaseArm™.** Features Paradigm's spectacular proprietary Guided Soundfield™, the high-end sound system for those guided sound in-ceiling applications. In this new model the addition of the PhaseArm™ positions the high-frequency driver closer to the plane of the ceiling, resulting in improved phase response as well as improved dispersion, both on and off axis.

**NEW! State-of-the-Art High-Power 1" (25-mm) G-PAL™ Gold-Anodized Pure-Aluminum Dome High Frequency Drivers.** Chosen for their exceptional rigidity and tremendous internal damping properties, the G-PAL™ domes were originally developed for the ultra-high-end freestanding Paradigm Reference Signature Series loudspeakers. These properties result in outstanding detail and clarity, while the reduced radius of curvature of the dome brings about significant improvements in dispersion.

**NEW! State-of-the-Art High-Power S-PAL™ Satin-Anodized Pure-Aluminum Bass/Midrange Cones,** the same cones receiving rave reviews in our freestanding Studio Series v.4. This next-generation material yields improved sonic performance through enhanced cone rigidity.

**NEW! Gold-Anodized Solid-Aluminum Phase Plugs** (selected models). Chosen in lieu of dust caps to increase air flow for improved power handling. Critically shaped to contribute to the accuracy of phase response.

**State-of-the-Art High-Power Mineral-Filled Polypropylene Bass Cones,** highly damped and extremely rigid, continue to ensure tight and well defined deep bass response in this next generation series.

**Ultra-Rigid™ Die-Cast Aluminum Chassis and Mounting Brackets.** Since the area behind the wall is an infinite baffle it can leave a speaker prone to uncontrolled resonances and standing waves which color sound. In-wall chassis on this new generation of speakers have been redesigned to match their in-ceiling counterparts, boasting deeper ribbing and further recessed grilles. The result? That crucial area around the mounting hole is further strengthened and reinforced, not only enhancing wall rigidity but reducing the opportunities for unwanted resonances and distortion to color sound.

**NEW! Lightweight Long-Travel 1" Aluminum or Copper-Clad Aluminum Voice Coils** with ventilated Apical™ formers ensure superb accuracy and reliability, and exceptionally linear response.

**NEW! State-of-the-Art Precision Crossover Networks** have been "tweaked" for improved frequency and phase response. The two-sided circuit boards meet stringent FR-4 military specifications and boast top-of-the-line component parts: metallized polypropylene film capacitors at crucial points, high-power ceramic resistors, improved Low-R steel/air-core inductors. 14-gauge wire or better (selected models) and new proprietary Posi-Grip™ binding posts.

For more information on Paradigm's Dual Directional Soundfield™ and Guided Soundfield™ technology, visit our website at [www.paradigm.com](http://www.paradigm.com)



PARADIGM® REFERENCE



SA-10R



SA-15R



SA-15R-SM



SA-15R-30



SA-25



SA-30



SA-35

Specifications:		SA-10R	SA-15R	SA-15R-SM New Model!	SA-15R-30 New Model!
<b>Design</b>		2-driver, 2-way in-ceiling / in-wall, GRIP™ chassis / mounting bracket	2-driver, 2-way in-ceiling / in-wall, GRIP™ chassis / mounting bracket	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
<b>Crossover</b>		3rd-order electro-acoustic 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 2.5 kHz
<b>High-Frequency Driver(s)</b>		25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled	25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled	Two 25-mm (1 in) G-PAL™ domes, die-cast heatsink, ferro-fluid cooled	25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled
<b>Bass / Midrange Driver</b>		165-mm (6-1/2 in) S-PAL™ cone, 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,	Dual 38-mm (1-1/2 in) voice-coils, 210-mm (8 in) S-PAL™ cone, GRIP™ chassis	210-mm (8 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, GRIP™ chassis
<b>Low-Frequency Extension*</b>		40 Hz (DIN)	37 Hz (DIN)	37 Hz (DIN)	37 Hz (DIN)
<b>Frequency Response: On-Axis 30° Off-Axis</b>		±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 20 kHz	±2 dB from 58 Hz – 22 kHz ±2 dB from 58 Hz – 20 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 – 17 kHz
<b>Sensitivity – Room / Anechoic</b>		91 / 87 dB	92 / 88 dB	92 / 88 dB	92 / 88 dB
<b>Suitable Amplifier Power Range</b>		15 – 150 watts	15 – 160 watts	15 – 160 watts Mono; 15 – 80 watts / channel Stereo Input	15 – 160 watts
<b>Maximum Input Power†</b>		90 watts	100 watts	100 watts Mono; 50 watts / channel Stereo Input	100 watts
<b>Impedance</b>		Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 8 ohms Mono; Compatible with 4 ohms / channel Stereo Input	Compatible with 8 ohms
<b>Diameter or Height x Width</b>		19.6 cm / 7-3/4 in	22.6 cm / 8-15/16 in	22.6 cm / 8-15/16 in	29.6 cm / 11-5/8 in
<b>Minimum Mounting Depth**</b>		8.7 cm / 3-7/16 in	9.0 cm / 3-8/16 in	9.0 cm / 3-8/16 in	14.3 cm / 5-5/8 in
<b>Cutout Dimensions: D or H x W</b>		17.2 cm / 6-3/4 in	20.0 cm / 7-7/8 in	20.0 cm / 7-7/8 in	27.0 cm / 10-5/8 in
<b>Pre-Construction Bracket</b>		PB-7R (sold separately)	PB-8R (sold separately)	PB-8R (sold separately)	PB-10R (sold separately)
<b>Minimum Internal Volume</b>		12 L / 0.42 cu ft	20 L / 0.70 cu ft	20 L / 0.70 cu ft	20 L / 0.70 cu ft
<b>Weight (unpacked)</b>		3.9 kg / 8.6 lb per pair	4.3 kg / 9.5 lb per pair	5.0 kg / 11 lb each	2.9 kg / 6.4 lb each

Specifications:		SA-25 New Model!	SA-30	SA-35
<b>Design</b>		2-driver, 2-way in-wall / in-ceiling, die-cast chassis / mounting bracket	2-driver, 2-way in-wall / in-ceiling, die-cast chassis / mounting bracket	3-driver, 2-1/2-way in-wall / in-ceiling, die-cast chassis / mounting bracket
<b>Crossover(s)</b>		3rd-order electro-acoustic at 2.0 kHz	3rd-order electro-acoustic at 2.0 kHz	3rd-order electro-acoustic at 2.0 kHz; 2nd-order electro-acoustic at 500 Hz (lower bass driver)
<b>High-Frequency Driver</b>		25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled	25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled	25-mm (1 in) G-PAL™ dome, die-cast heatsink, ferro-fluid cooled
<b>Bass / Midrange Driver</b>		165-mm (6-1/2 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, die-cast chassis	210-mm (8 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, die-cast chassis	210-mm (8 in) S-PAL™ cone, 38-mm (1-1/2 in) voice coil, die-cast chassis
<b>Bass Driver</b>				210-mm (8 in) mineral-filled polypropylene cone, 38-mm (1-1/2 in) voice coil, die-cast chassis
<b>Low-Frequency Extension*</b>		39 Hz (DIN)	35 Hz (DIN)	34 Hz (DIN)
<b>Frequency Response: On-Axis 30° Off-Axis</b>		±2 dB from 58 Hz – 22 kHz ±2 dB from 58 Hz – 20 kHz	±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
<b>Sensitivity – Room / Anechoic</b>		92 / 88 dB	93 / 89 dB	96 / 92 dB
<b>Suitable Amplifier Power Range</b>		15 – 160 watts	15 – 180 watts	15 – 250 watts
<b>Maximum Input Power†</b>		110 watts	120 watts	180 watts
<b>Impedance</b>		Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 8 ohms
<b>Diameter or Height x Width</b>		28.2 cm x 19.4 cm / 11-1/8 in x 7-11/16 in	31.4 cm x 22.7 cm / 12-3/8 in x 8-15/16 in	51.0 cm x 23.1 cm / 20-1/16 in x 9-1/16 in
<b>Minimum Mounting Depth**</b>		7.4 cm / 2-15/16 in	7.4 cm / 2-15/16 in	7.6 cm / 3 in
<b>Cutout Dimensions: D or H x W</b>		26.0 cm x 17.2 cm / 10-1/4 in x 6-3/4 in	29.4 cm x 20.7 cm / 11-1/2 in x 8-3/16 in	48.6 cm x 20.7 cm / 19-1/8 in x 8-5/32 in
<b>Pre-Construction Bracket</b>		PB-7x10 (sold separately)	PB-8x12 (sold separately)	PB-8x19 (sold separately)
<b>Minimum Internal Volume</b>		12 L / 0.42 cu ft	20 L / 0.70 cu ft	40 L / 1.4 cu ft
<b>Weight (unpacked)</b>		7.1 kg / 15.7 lb pair	7.6 kg / 16.7 lb pair	14.2 kg / 31.3 lb pair