

new!

IN-CEILING MODELS
NOW MORE DISCREET THAN EVER



A DISAPPEARING ACT THAT'S TOUGH FOR THE COMPETITION TO FOLLOW!

It's not often that Paradigm makes a fuss about removing something from a speaker but this is one of those times. The whole point of ceiling speakers is the aesthetic. When customers choose Paradigm in-ceilings, it's a given they want to hear great sound they just don't want to see it. We complied, making our virtually invisible in-ceiling bezels even less visible across the **Paradigm AMS and Paradigm Reference SA and Signature Series** in-ceiling lineup. The odd time your customer looks up at the ceiling, there won't be much to see ... which is exactly what they're looking for!

Paradigm®


PARADIGM REFERENCE


Signature Series

www.paradigm.com

WHY HAVEN'T WE CHANGED OUR IN-WALL MODELS?

Low-profile bezels are not an aesthetic issue with in-wall speakers, so with the exception of our square stereo/mono in-wall speaker (AMS-150SW-SM), our in-wall speaker line-ups have not changed.



For a specific list of what we've updated for the in-ceiling models across each series, refer to the chart below. Before you do, however, take a peek at why we did what we did when it came to design and technology enhancements ...



MODEL ENHANCEMENTS

All Models

New sleeker, low-profile bezels with a finer, lighter scrim design.

Stereo/Mono (SM) Models

(AMS-150R-SM, SA-15R-SM)

New convex grille design.

Guided Soundfield Models (R-30)

(AMS-150R-30, SA-15R-30, SIG-1.5R-30)

New low-density NLC™ Non-Limiting Corrugated thermoplastic elastomer surrounds, trickle down technology from our Signature Series. FEA optimized and overmolded onto the polypropylene cone.

(SA-15R-30 and SIG-1.5R-30)

New motor structure includes a three-split voice coil, thicker top plate and larger ceramic/ferrite magnet.

DESIGN AND/OR ACOUSTIC BENEFIT

A cleaner, disappearing aesthetic with increased sonic transparency.

Minimizes edge diffraction resulting in much wider sound dispersion, important for those sitting off axis.

FEA-optimized and overmolded onto the cone in-house, the new thermoplastic elastomer is ten times more effective than standard elastomers in damping vibrations and resonances. The flexible corrugations have also helped to increase peak-to-peak cone excursion. While we would have loved to effect this change across models, at this point the Guided Soundfield models were the only ones physically able to accommodate the size and quantity of corrugations needed.

The speaker now plays louder! +3 dB output. In concert with the new surrounds the speakers now play louder with more clarity at higher output. The new motor structure further improves low-frequency sound distortion at high excursion while maintaining the much-lauded frequency response of the previous generation.

Improved motor structure



Corrugated TPE surround



Three-split voice coil design



MODEL ENHANCEMENTS

Marine Models

New higher-quality stainless steel.

New improved drainage channels.

New neodymium grille magnets.

DESIGN AND/OR ACOUSTIC BENEFIT

Increased corrosion resistance.

Increased product life and improved performance reliability over time.

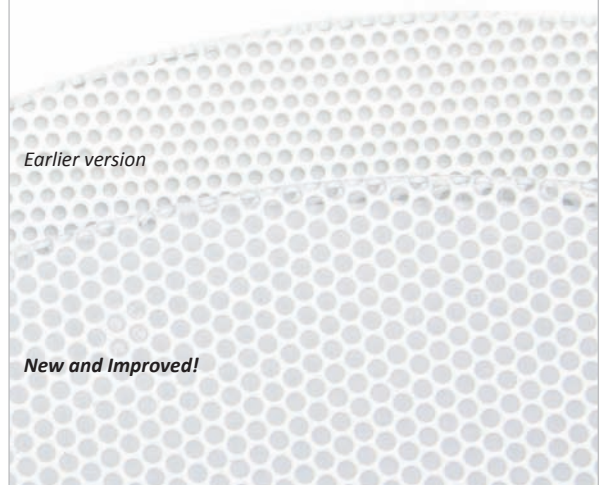
Superior adherence during all weather situations vs the original friction-fit style of grille.



Neodymium grille magnets for superior grille adherence



Improved drainage channels





WHAT'S NEW IN THE AMS DESIGNER SERIES?

Model	Design Enhancements
AMS-100R	Low-profile bezel; More sonically transparent scrim.
AMS-100RX (marine)	Low-profile bezel; Higher-grade stainless steel grille; Neodymium magnets hold grille more securely in place; Improved drainage channels.
AMS-150R	Low-profile bezel; More sonically transparent scrim.
AMS-150RX (marine)	Low-profile bezel; Higher-grade stainless steel grille; Neodymium magnets hold grille more securely in place; Improved drainage channels.
AMS-150R-SM	Low-profile bezel; New accommodating convex grille design allows for wider dispersion, more sonically transparent scrim.
AMS-150SQ-SM	Low-profile bezel; More sonically transparent scrim.
AMS-150R-30	Low-profile bezel; More sonically transparent scrim Overmolded NLC™ Non-Limiting Corrugated Santoprene® surround.

WHAT'S NEW IN THE SA DESIGNER SERIES?

Model	Design enhancements
SA-10R	Low-profile bezel; More sonically transparent scrim.
SA-15R	Low-profile bezel; More sonically transparent scrim.
SA-15R-SM	Low-profile bezel; New accommodating convex grille design allows for wider dispersion, more sonically transparent scrim.
SA-150R-30	Plays louder with more clarity at higher output vs the earlier version. Overmolded NLC™ Non-Limiting Corrugated Santoprene® surround; Improved motor structure.

WHAT'S NEW IN THE SIGNATURE DESIGNER SERIES?

Model	Design enhancements
SIG-1.5R	Plays louder with more clarity at higher output vs the earlier version. Low-profile bezel; More sonically transparent scrim.
SIG-1.5R-30	Low-profile bezel; Overmolded NLC™ Non-Limiting Corrugated Santoprene® surround; Improved motor structure.

DESIGNER SERIES MODEL SPECIFICATIONS

AMS Designer Series	AMS-100R / AMS-100RX	AMS-150R / AMS-150RX	AMS-150R-SM
Design (<i>RX designates a marine version of model is available</i>)	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
Crossover	2nd-order electro-acoustic at 2.5 kHz	2nd-order electro-acoustic at 2.5 kHz	2nd-order electro-acoustic at 2.5 kHz
High-Frequency Driver(s)	25-mm (1 in) S-PAL™ dome, die-cast heatsink	25-mm (1 in) S-PAL™ dome, die-cast heatsink	Two 25-mm (1 in) S-PAL™ domes, die-cast heatsink
Bass/Midrange Driver	165-mm (6-1/2 in) mineral-filled polypropylene cone	210-mm (8 in) mineral-filled polypropylene cone	Dual voice-coil, 210-mm (8 in) mineral-filled polypropylene cone
Low-Frequency Extension*	55 Hz (DIN)	45 Hz (DIN)	45 Hz (DIN)
Frequency Response: <i>On-Axis</i> <i>30° Off-Axis</i>	±2 dB from 75 Hz – 22 kHz ±2 dB from 75 Hz – 18 kHz	±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 20 kHz	±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 16 kHz
Sensitivity – Room/Anechoic	89 dB / 85 dB	91 dB / 87 dB	91 dB / 87 dB
Suitable Amplifier Power Range	15 – 100 watts	15 – 110 watts	15 – 110 watts Mono; 15 – 55 watts/channel Stereo Input
Maximum Input Power†	80 watts	80 watts	80 watts Mono; 40 watts/channel Stereo Input
Impedance	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input
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
Minimum Mounting Depth**	7.6 cm / 3 in	8.3 cm / 3-1/4 in	8.3 cm / 3-1/4 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
Minimum Internal Vol. Required	12 L / 0.42 cu ft	20 L / 0.70 cu ft	20 L / 0.70 cu ft
Weight (unpacked)	1.5 kg / 3.3 lb each	1.8 kg / 3.9 lb each	2.1 kg / 4.6 lb each
Finish	White, paintable	White, paintable	White, paintable
Pre-Construction Bracket (sold sep.)	PB-7R; retrofit included	PB-8R; retrofit included	PB-8R; retrofit included

AMS Designer Series	AMS-150SQ-SM	AMS-150R-30 GUIDED SOUNDFIELD™ SYSTEM
Design (<i>RX designates a marine version of model is available</i>)	L/R inputs, 3-driver, 2 x 2-way in-wall/in-ceiling, GRIP™ chassis/mounting bracket	2-driver, 2-way in-ceiling, drivers mounted at 30° relative to mounting surface, die-cast chassis/mounting bracket
Crossover	2nd-order electro-acoustic at 2.5 kHz	2nd-order electro-acoustic at 2.5 kHz
High-Frequency Driver(s)	Two 25-mm (1 in) S-PAL™ domes, die-cast heatsink	25-mm (1 in) S-PAL™ dome, die-cast heatsink
Bass/Midrange Driver	Dual voice-coil, 210-mm (8 in) mineral-filled polypropylene cone	210-mm (8 in) mineral-filled polypropylene cone, NLC™ Non-Limiting Corrugated thermoplastic elastomer surround, 3-split 38-mm (1-1/2 in) voice coil, GRIP™ chassis
Low-Frequency Extension*	45 Hz (DIN)	45 Hz (DIN)
Frequency Response: <i>On-Axis</i> <i>30° Off-Axis</i>	±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 16 kHz	±2 dB from 60 Hz – 22 kHz ±2 dB from 60 Hz – 16 kHz
Sensitivity – Room/Anechoic	91 dB / 87 dB	91 dB / 87 dB
Suitable Amplifier Power Range	15 – 110 watts Mono; 15 – 55 watts/channel Stereo Input	15 – 110 watts
Maximum Input Power†	80 watts Mono; 40 watts/channel Stereo Input	80 watts
Impedance	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input	Compatible with 8 ohms
External Dimensions: (D or H x W)	21.4 cm x 21.4 cm / 8-1/2 in x 8-1/2 in	29.6 cm / 11-10/16 in
Minimum Mounting Depth**	8.3 cm / 3-1/4 in	14.3 cm / 5-10/16 in
Cutout Dimensions: (D or H x W)	19.1 cm x 19.1 cm / 7-1/2 in x 7-1/2 in	27.0 cm / 10-10/16 in
Minimum Internal Vol. Required	20 L / 0.70 cu ft	20 L / 0.70 cu ft
Weight (unpacked)	2.1 kg / 4.6 lb each	2.3 kg / 5 lb each
Finish	White, paintable	White, paintable
Pre-Construction Bracket (sold sep.)	PB-7x7; retrofit included	PB-10R; retrofit included

				Now Plays Louder! +3 dB Output! SA-15R-30 GUIDED SOUNDFIELD™ SYSTEM
SA Designer Series	SA-10R	SA-15R	SA-15R-SM.	
Design	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
Crossover	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
High-Frequency Driver(s)	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate	25-mm (1 in) G-PAL™ dome, die-cast heatsink faceplate	Two 25-mm (1 in) G-PAL™ domes, 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-PAL™ cone, 38-mm (1-1/2 in) voice coil, GRIP™ chassis	210-mm (8 in) S-PAL™ cone, dual 38-mm (1-1/2 in) voice coil, GRIP™ chassis	210-mm (8 in) mineral-filled polypropylene cone, NLC™ Non-Limiting Corrugated thermoplastic elastomer surround, 3-split 38-mm (1-1/2 in) voice coil, GRIP™ chassis
Bass Driver	n/a	n/a	n/a	n/a
Low-Frequency Extension*	40 Hz (DIN)	37 Hz (DIN)	37 Hz (DIN)	37 Hz (DIN)
Frequency Response: <i>On-Axis</i> 30° <i>Off-Axis</i>	±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
Sensitivity – Room/Anechoic	91 dB / 87 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
Maximum Input Power†	90 watts	100 watts	100 watts Mono; 50 watts/channel Stereo Input	100 watts
Impedance	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input	Compatible with 8 ohms
External Dimensions: <i>(D or H x W)</i>	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
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
Cutout Dimensions: <i>(D or H x W)</i>	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
Minimum Internal Vol. Required	12 L / 0.42 cu ft	20 L / 0.70 cu ft	20 L / 0.70 cu ft	20 L / 0.70 cu ft
Weight <i>(unpacked)</i>	2.0 kg / 4.3 lb each	2.2 kg / 4.8 lb each	5.0 kg / 11 lb each	2.9 kg / 6.4 lb each
Finish	White, paintable	White, paintable	White, paintable	White, paintable
Pre-Construction Bracket <i>(sold sep.)</i>	PB-7R; retrofit included	PB-8R; retrofit included	PB-8R; retrofit included	PB-10R; retrofit included

Signature Designer Series		SIG-1.5R-30 GUIDED SOUNDFIELD™ SYSTEM	Now Plays Louder! +3 dB Output!
Signature Designer Series	SIG-1.5R	SIG-1.5R-30 GUIDED SOUNDFIELD™ SYSTEM	
Design	2-driver, 2-way in-ceiling/in-wall, GRIP™ chassis/ mounting bracket	2-driver, 2-way in-ceiling, drivers mounted at 30° relative to mounting surface, Ultra-Rigid™ die-cast chassis with GRIP™ mounting bracket	
Crossover(s)	3rd-order electro-acoustic at 2.5 kHz	3rd-order electro-acoustic at 2.5 kHz	
High-Frequency Driver(s)	25-mm (1 in) P-Be™ dome, rear damping chamber with ARB™ fins and integrated heatsink, dual super-neodymium magnets, die-cast heatsink chassis	25-mm (1 in) P-Be™ dome, rear damping chamber with ARB™ fins and integrated heatsink, dual super-neodymium magnets, die-cast heatsink chassis	
Midrange Driver(s)	n/a	n/a	
Bass/Midrange Driver	210-mm (8 in) Co-PAL™ cone, anodized solid-aluminum phase plug, 38-mm (1-1/2 in) dual-layer voice coil, ceramic/ferrite magnets, AVS™ die-cast heatsink chassis	210-mm (8 in) mineral-filled polypropylene cone, NLC™ Non-Limiting Corrugated thermoplastic elastomer surround, 3-split 38-mm (1-1/2 in) voice coil, GRIP™ chassis	
Bass Driver	n/a	n/a	
Low-Frequency Extension*	37 Hz (DIN)	37 Hz (DIN)	
Frequency Response: <i>On-Axis</i> 30° <i>Off-Axis</i>	±2 dB from 58 Hz – 45 kHz ±2 dB from 58 Hz – 20 kHz	±2 dB from 58 Hz – 45 kHz ±2 dB from 58 Hz – 17 kHz	
Sensitivity – Room/Anechoic	92 dB / 88 dB	92 dB / 88 dB	
Suitable Amplifier Power Range	15 – 225 watts	15 – 225 watts	
Maximum Input Power†	140 watts	140 watts	
Impedance	Compatible with 8 ohms	Compatible with 8 ohms	
External Dimensions: <i>(D or H x W)</i>	22.6 cm / 8-15/16 in	29.6 cm / 11-10/16 in	
Minimum Mounting Depth**	10.0 cm / 3-15/16 in	13.9 cm / 5-1/2 in	
Cutout Dimensions: <i>(D or H x W)</i>	20.0 cm / 7-14/16 in	27.0 cm / 10-10/16 in	
Minimum Internal Vol. Required	20 L / 0.70 cu ft	20 L / 0.70 cu ft	
Weight <i>(unpacked)</i>	1.6 kg / 3.5 lb each	2.0 kg / 4.4 lb each	
Finish	White, paintable	White, paintable	
Pre-Construction Bracket <i>(sold sep.)</i>	PB-8R; retrofit included	PB-10R; retrofit included	