WHITE, PAINTABLE

Full-perimeter bracket design
Unlike typical mounting ears, brackets cover the full diameter or height and width of the speaker chassis to effectively sandwich and strengthen the area around the mounting hole.

Superior PTD™ Pure-Titanium Domes with ferro-fluid cooling and damping deliver extended smooth high-frequency performance with superb clarity across a wide listening area.

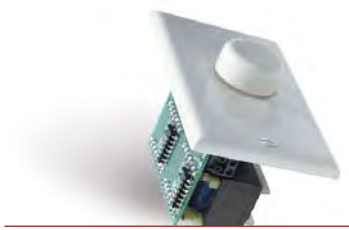
Superior Mineral-Filled Poly-propylene Cones with oversized magnets. Deliver authentic, detailed midrange performance with solid extended bass.

High-Strength IRP™ Injection-Molded Ribbed Polymer Chassis solve the flexibility problem and dramatically reduce resonances and vibrations behind the wall or ceiling.

"… AGILE AND EXPLOSIVE … signature smooth high-frequency response … delectable midrange."

– Andrew Robinson, hometheaterreview.com

CS Series



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

BEHIND THE SCENES

Why settle for look-alike in-wall/in-ceiling speakers—those that at first glance look similar, but in the end can't perform, when you can get the superior sound of CS Series speakers. Extended high-frequency performance, a detailed and authentic midrange and full-bandwidth bass bring the high-performance sound of CS Series speakers to any room in your home. Also ideal for use in offices, restaurants, etc.

SOLO PERFORMERS: CS-60R-SM & CS-60SQ-SM

- Two PTD™ Pure-Titanium High-Frequency Domes offset at 30° angles
- Dual Voice-Coil Mineral-Filled Polypropylene Bass/Midrange Cone

"SM" (stereo/mono) speakers offer rich pure-fidelity dual-channel L/R sound from a single speaker. Their Dual-Directional Soundfield™ provides wider-than-normal dispersion making them ideal for use in small rooms less suited to a stereo pair (Fig.1), or where a single speaker is preferred. In larger spaces, using multiple "SM" speakers eliminates the sound imbalances that occur with separate stereo speakers as people move around, or are seated closer to one speaker than the other (Fig. 2). Ideal for use as in-wall/in-ceiling surround and/or rear speakers (Fig. 3).

GUIDED SOUNDFIELD™ SYSTEM: CS-60R-30

The CS-60R-30's Guided Soundfield™ system allows you to guide a wide arc of sound toward a specific area of the room, much the same way we guide a floodlight to fill an area with light. Drivers sit at a 30° angle from the ceiling enabling you to adjust the direction of sound (Fig. 4), without compromising the crucial sound dispersion pattern between drivers, or the interaction between drivers and baffle, thereby preserving sonic integrity. These speakers are also 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. 5) similar to that provided by Paradigm's ADP™ technology.

PLACEMENT

Top view of rooms:

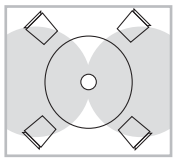


Fig. 1

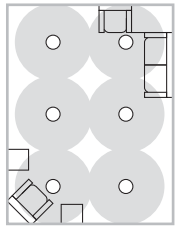


Fig. 2

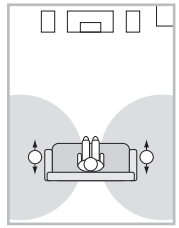


Fig. 3

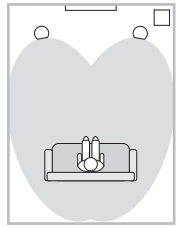


Fig. 4

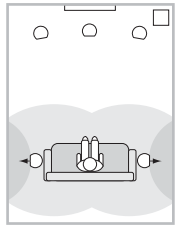


Fig. 5

CS Series	CS-50R	CS-60R	CS-60R-SM	CS-60SQ-SM
Design	2-driver, 2-way in-ceiling/in-wall, coaxially mounted high-frequency driver, IRP™ chassis/mounting bracket	2-driver, 2-way in-ceiling/in-wall, coaxially mounted high-frequency driver, IRP™ chassis/mounting bracket	Single speaker system with stereo L/R inputs, 3-driver, 2 x 2-way in-ceiling/in-wall, coaxially mounted high-frequency drivers, IRP™ chassis/mounting bracket	Single speaker system with stereo L/R inputs, 3-driver, 2 x 2-way in-wall/in-ceiling, coaxially mounted high-frequency drivers, IRP™ chassis/mounting bracket
Crossover(s)	2nd-order electro-acoustic at 3.0 kHz	2nd-order electro-acoustic at 3.0 kHz	Two 2nd-order electro-acoustic at 3.0 kHz	Two 2nd-order electro-acoustic at 3.0 kHz
High-Frequency Driver(s)	19-mm (3/4 in) PTD™ dome	19-mm (3/4 in) PTD™ dome	Two 19-mm (3/4 in) PTD™ domes	Two 19-mm (3/4 in) PTD™ domes
Bass/Midrange Driver	140-mm (5-1/2 in) mineral-filled polypropylene cone	165-mm (6-1/2 in) mineral-filled polypropylene cone	Dual voice-coil, 165-mm (6-1/2 in) mineral-filled polypropylene cone	Dual voice-coil, 165-mm (6-1/2 in) mineral-filled polypropylene cone
Low-Frequency Extension*	60 Hz (DIN)	55 Hz (DIN)	52 Hz (DIN)	52 Hz (DIN)
Frequency Response: *On-Axis* *30° Off-Axis*	±2 dB from 75 Hz – 20 kHz ±2 dB from 75 Hz – 18 kHz	±2 dB from 70 Hz – 20 kHz ±2 dB from 70 Hz – 18 kHz	±2 dB from 70 Hz – 20 kHz ±2 dB from 70 Hz – 15 kHz	±2 dB from 70 Hz – 20 kHz ±2 dB from 70 Hz – 15 kHz
Sensitivity – Room/Anechoic	88 dB / 84 dB	89 dB / 85 dB	89 dB / 85 dB	89 dB / 85 dB
Suitable Amplifier Power Range	15 – 70 watts	15 – 80 watts	15 – 80 watts Mono; 15 – 40 watts/channel Stereo Input	15 – 80 watts Mono; 15 – 40 watts/channel Stereo Input
Maximum Input Power†	40 watts	50 watts	50 watts	50 watts
Impedance	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input	Compatible with 4 ohms Mono; 8 ohms/channel Stereo Input
External Dimensions: (D or H x W)	19.4 cm / 7-10/16 in	22.1 cm / 8-3/4 in	22.1 cm / 8-3/4 in	20.0 cm x 20.0 cm / 7-14/16 in x 7-14/16 in
Minimum Mounting Depth**	5.7 cm / 2-1/4 in	6.0 cm / 2-6/16 in	6.0 cm / 2-6/16 in	7.1 cm / 2-3/4 in
Cutout Dimensions: (D or H x W)	16.6 cm / 6-9/16 in	19.3 cm / 7-10/16 in	19.3 cm / 7-10/16 in	17.8 cm x 17.8 cm / 7 in x 7 in
Minimum Internal Volume Required	6 L / 0.22 cu ft	12 L / 0.42 cu ft	12 L / 0.42 cu ft	12 L / 0.42 cu ft
Weight (unpacked)	1.2 kg / 2.5 lb each	1.6 kg / 3.5 lb each	1.6 kg / 3.5 lb each	1.6 kg / 3.5 lb each
Finish	White, paintable	White, paintable	White, paintable	White, paintable
Pre-Construction Bracket (sold sep.)	PB-7R; retrofit included	PB-8R; retrofit included	PB-8R; retrofit included	PB-7x7; retrofit included

	CS-60R-30 | GUIDED SOUNDFIELD™ SYSTEM	CS-80R	CS-150	CS-160	CS-LCR
Design	2-driver, 2-way in-ceiling, drivers mounted at 30° relative to mounting surface, IRP™ chassis/mounting bracket	2-driver, 2-way in-ceiling/in-wall, coaxially mounted high-frequency driver, IRP™ chassis/mounting bracket	2-driver, 2-way in-wall/in-ceiling, IRP™ chassis/ mounting bracket	2-driver, 2-way in-wall/in-ceiling, IRP™ chassis/ mounting bracket	3-driver, 2-way in-wall left/center/right, IRP™ 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	2nd-order electro-acoustic at 2.5 kHz	2nd-order electro-acoustic at 2.5 kHz
High-Frequency Driver	25-mm (1 in) PTD™ dome	25-mm (1 in) PTD™ dome	19-mm (3/4 in) PTD™ dome	19-mm (3/4 in) PTD™ dome	19-mm (3/4 in) PTD™ dome
Bass/Midrange Driver(s)	165-mm (6-1/2 in) mineral-filled polypropylene cone	210-mm (8 in) mineral-filled polypropylene cone	140-mm (5-1/2 in) mineral-filled polypropylene cone	165-mm (6-1/2 in) mineral-filled polypropylene cone	Two 140-mm (5-1/2 in) mineral-filled polypropylene cones
Low-Frequency Extension*	55 Hz (DIN)	45 Hz (DIN)	60 Hz (DIN)	55 Hz (DIN)	60 Hz (DIN)
Frequency Response: *On-Axis* *30° Off-Axis*	±2 dB from 70 Hz – 20 kHz ±2 dB from 70 Hz – 15 kHz	±2 dB from 60 Hz – 20 kHz ±2 dB from 60 Hz – 18 kHz	±2 dB from 75 Hz – 20 kHz ±2 dB from 75 Hz – 18 kHz	±2 dB from 70 Hz – 20 kHz ±2 dB from 70 Hz – 18 kHz	±2 dB from 75 Hz – 20 kHz ±2 dB from 75 Hz – 18 kHz
Sensitivity – Room/Anechoic	89 dB / 85 dB	90 dB / 86 dB	88 dB / 84 dB	89 dB / 85 dB	89 dB / 85 dB
Suitable Amplifier Power Range	15 – 80 watts	15 – 90 watts	15 – 80 watts	15 – 90 watts	15 – 100 watts
Maximum Input Power†	50 watts	60 watts	50 watts	60 watts	70 watts
Impedance	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 8 ohms	Compatible with 8 ohms
External Dimensions: (D or H x W)	29.3 cm / 11-1/2 in	26.4 cm / 10-6/16 in	25.5 cm x 17.5 cm / 10-1/16 in x 6-14/16 in	28.1 cm x 20.0 cm / 11-2/16 in x 7-14/16 in	23.1 cm x 31.8 cm / 9-2/16 in x 12-1/2 in
Minimum Mounting Depth**	12.0 cm / 4-3/4 in	7.6 cm / 3 in	5.4 cm / 2-2/16 in	6.0 cm / 2-6/16 in	6.4 cm / 2-1/2 in
Cutout Dimensions: (D or H x W)	26.3 cm / 10-6/16 in	23.2 cm / 9-2/16 in	23.2 cm x 15.2 cm / 9-2/16 in x 6 in	25.8 cm x 17.7 cm / 10-2/16 in x 6-15/16 in	20.8 cm x 29.5 cm / 8-3/16 in x 11-10/16 in
Minimum Internal Volume Required	12 L / 0.42 cu ft	16 L / 0.56 cu ft	6 L / 0.22 cu ft	12 L / 0.42 cu ft	12 L / 0.42 cu ft
Weight (unpacked)	2.4 kg / 5.3 lb each	2.0 kg / 4.4 lb each	1.2 kg / 2.5 lb each	1.6 kg / 3.5 lb each	2.7 kg / 5.9 lb each
Finish	White, paintable	White, paintable	White, paintable	White, paintable	White, paintable
Pre-Construction Bracket (sold sep.)	PB-10R; retrofit included	PB-9R; retrofit included	PB-6x9; retrofit included	PB-7x10; retrofit included	PB-8x12; retrofit included