

BLACK

by OPTIMAL SPEAKER DESIGN

BLACK

BLACK by Optimal Speaker Design is a range of premium quality flush-mount loudspeakers designed to serve discriminating homeowners and A/V integrators who demand the ultimate in aesthetic style and audio performance. BLACK products includes unique features and technologies that make them better looking, easier to install and more durable, while delivering lifelike sound quality more typically found in free-standing audiophile grade speakers.

There are BLACK models to fit every distributed audio and home theater application and space, offered in three performance levels: Acoustic, Performance and Reference. BLACK products are sold only through custom installation Audio Video specialist dealers in order to ensure proper system design, installation and total customer satisfaction.

The Optimal Speaker Design Heritage

Businessman and lifelong audiophile Dave Chai, who was inspired to start a new audio company after he was frustrated in his search for high performance outdoor and built-in loudspeakers, formed OSD in 2003. Dave knew that by leveraging his close relationships with experienced audio engineering, product design and manufacturing resources he could bring better sounding, higher value audio products to the custom installation channel. The exceptional performance of BLACK products combined with Dave's dedication to real-time, person-to-person, expert technical support is a winning formula perfect for these times of change. BLACK SERIES is the ultimate expression of Dave's vision and dedication to better quality audio for all.



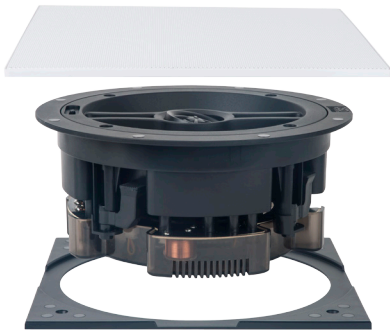


PERFECT EDGE™

BLACK in-wall and in-ceiling speakers perform a near miraculous disappearing act. Rather than a wide flange found on most built-in speakers, BLACK speakers feature flange-free Perfect Edge™ magnetic grilles that minimize the visible footprint of the speaker for a clean, elegant and unobtrusive appearance.

Square Options

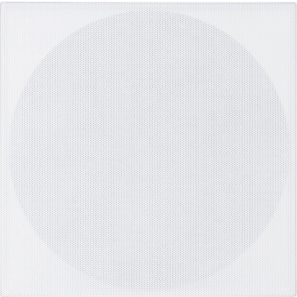
BLACK round in-ceiling models offer a square grille option to match the aesthetic of rectangular architectural elements such as lighting fixtures and air registers. While other brands may offer that option, only BLACK does it right with a square mask that doesn't “telegraph” the round speaker shadow behind the grille.



Square Grille Kit



Square Mask Eliminates The Round Silhouette



Without Mask

PRODUCT RANGE

TECH & FEATURES



REFERENCE

Carbon Fiber Woofers, (TPR) Thermoplastic Rubber Surrounds, Pivoting Ceramic Coated Aluminum Dome Tweeters, Contour Switch (+3/0/-3 dB) and Second Order Crossover Network with air core coil, Mylar bypass capacitor and vented protective shield



PERFORMANCE

Mineral filled Graphite Woofer, Butyl Rubber Surrounds, Pivoting Parachute Silk Soft Dome Tweeters, Contour Switch (+3/0/-3 dB) and Second Order Crossover Network with air core coil, Mylar bypass capacitor and vented protective shield



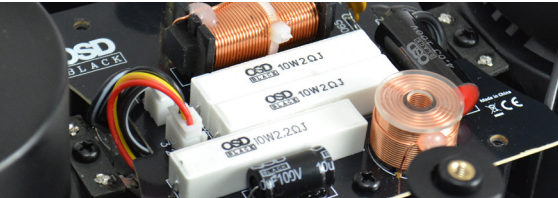
ACOUSTIC

Polymer Woofer, Butyl Rubber Surrounds, Pivoting Silk Soft Dome Tweeter and First Order Crossover Network



CUSTOM X-OVER

BLACK Reference and Performance models feature audiophile-grade crossover components including Mylar bypass capacitors to enhance high frequency extension for exceptional clarity and “air.” Shields* protect the components from debris and suffocating insulation while integrated air vents keep things cool.



PRO MOUNTING

Installers will appreciate the BLACK mounting system for its ease and robust construction. BLACK's rotating clamps have brass inserts to prevent thread stripping. The stainless steel machine bolts are thread-strip and rust resistant. Rubber damping pads on the mounting clamps minimize the likelihood of sheetrock blowout and damp resonance, vibration and buzzing. Better installs, better sound, it's all better with BLACK.



CONTOUR SWITCH

Reference and Performance speakers offer a high frequency contour switch with -3dB, 0 (flat) and +3 dB settings to match speaker performance to the room acoustics. Highly reflective “live” rooms benefit from a -3dB HF reduction while fabric-heavy “dead” rooms will sound better with tweeters boosted +3dB.



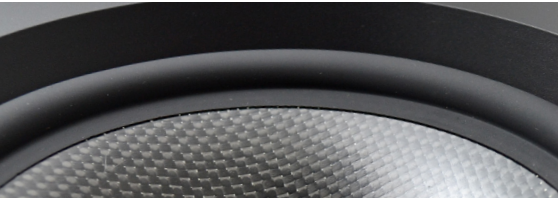
BUILT-IN THEATER

Exceptional home cinema audio performance with near invisibility is now within reach. BLACK offers both in-ceiling and in-wall high performance speakers specifically designed for multi-channel home theater applications. The R62A and R63A models are 6-1/2” two-way speakers with angled drivers and specially contoured baffles to focus sound at screen level for a perfect illusion that the speakers are in front of the screen. The T53LCR is a Reference series in-wall speaker that may be used vertically as left/right speakers and horizontally as a center speaker.



TPR RUBBER SURROUND

For installs in tough environments such as indoor pool areas, outdoors under eaves and commercial settings, use BLACK Reference series models. Their woofer surrounds are fabricated from injection molded Thermoplastic Rubber (TPR) – a copolymer that has superior damping characteristics and greater resistance to chemicals, UV and pollutants.







SINGLE POINT STEREO

The BLACK R62DT brings exceptional sound to small rooms, halls and service areas. Dual tweeters and woofer voice coils allow connection to a stereo amplifier with no loss of musical content. Or switch to surround mode and use them in pairs for rear and side-channel duties in home theater applications. Versatile, convenient and exceptional in performance – that's BLACK.







8" CEILING SPEAKERS

CEILING SPEAKERS




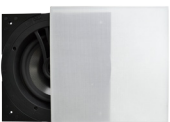
	Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
	R81	Ceiling Speaker Acoustic	8" Poly W/ Rubber Surround	½" Pivoting Silk Soft Dome	Pair	50-20K	120W	89dB	8 ohm	11"	4.33"	9.5"
	R82	Ceiling Speaker Performance	8" Graphite W/ Rubber Surround	1" Pivoting CatEye Parachute Silk Soft Dome	Pair	38-22K	150W	88dB	8 ohm	11"	4.33"	9.5"
	R83	Ceiling Speaker Reference	8" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Pair	28-22k	175W	91dB	8 ohm	11"	4.33"	9.5"
	SQ8	Square Grille Kit	For all 8" Ceiling Speakers	N/A	Pair	N/A	N/A	N/A	N/A	11" x 11"	N/A	N/A

6.5" CEILING SPEAKERS





	Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
	R61	Ceiling Speaker Acoustic	6.5" Poly W/ Rubber Surround	½" Pivoting Silk Soft Dome	Pair	45-20K	100W	86dB	8 ohm	9.3"	3.93"	7.8"
	R62	Ceiling Speaker Performance	6.5" Graphite W/ Rubber Surround	1" Pivoting CatEye Parachute Silk Soft Dome	Pair	40-20K	120W	87dB	8 ohm	9.3"	3.93"	7.8"
	R63	Ceiling Speaker Reference	6.5" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Pair	38-20K	150W	89dB	8 ohm	9.3"	3.93"	7.8"
	SQ6	Square Grille Kit	For all 6.5" Ceiling Speakers	N/A	Pair	N/A	N/A	N/A	N/A	9.3" x 9.3"	N/A	N/A

6.5" DT & ANGLED SPEAKERS

CEILING SPEAKERS

	Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
	R62DT	Stereo Ceiling Speaker Performance	6.5" Graphite W/ Rubber Surround	Dual ¾" Pivoting CatEye Parachute Silk Soft Dome	Each	40-20K	120W	86dB	8 ohm	9.3"	3.93"	7.8"
	R62A	Angled Ceiling Speaker Performance	6.5" Graphite W/ Rubber Surround	1" Pivoting CatEye Parachute Silk Soft Dome	Each	40-20K	120W	87dB	8 ohm	9.8"	4.72"	8.3"
	R63A	Angled Ceiling Speaker Reference	6.5" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Each	38-20K	150W	89dB	8 ohm	9.8"	4.72"	8.3"
	SQ6	Square Grille Kit	For all 6.5" Ceiling Speakers	N/A	Pair	N/A	N/A	N/A	N/A	9.3" x 9.3"	N/A	N/A

5.25" CEILING SPEAKERS

	Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
	R51	Ceiling Speaker Acoustic	5.25" Poly W/ Rubber Surround	½" Pivoting Silk Soft Dome	Pair	65-20K	75W	85dB	8 ohm	8.2"	3.81"	6.6"
	R52	Ceiling Speaker Performance	5.25" Graphite W/ Rubber Surround	¾" Pivoting CatEye Parachute Silk Soft Dome	Pair	55-20K	90W	85dB	8 ohm	8.2"	3.81"	6.6"
	R53	Ceiling Speaker Reference	5.25" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Pair	50-20K	100W	87dB	8 ohm	8.2"	3.81"	6.6"
	SQ5	Square Grille Kit	For all 5.25" Ceiling Speakers	N/A	Pair	N/A	N/A	N/A	N/A	8.2" x 8.2"	N/A	N/A

8" IN-WALL SPEAKERS



Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
T81	In-Wall Speaker Acoustic	8" Poly W/ Rubber Surround	½" Pivoting Silk Soft Dome	Pair	50-20K	120W	88dB	8 ohm	14.4" x 10.4"	3.81"	12.9" x 8.8"
T82	In-Wall Speaker Performance	8" Graphite W/ Rubber Surround	1" Pivoting CatEye Parachute Silk Soft Dome	Pair	38-22K	150W	89dB	8 ohm	14.4" x 10.4"	3.81"	12.9" x 8.8"
T83	In-Wall Speaker Reference	8" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Pair	28-22k	175W	91dB	8 ohm	14.4" x 10.4"	3.81"	12.9" x 8.8"

6.5" IN-WALL SPEAKERS



Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
T61	In-Wall Speaker Acoustic	6.5" Poly W/ Rubber Surround	½" Pivoting Silk Soft Dome	Pair	45-20K	100W	86dB	8 ohm	12.4" x 9"	3.62"	10.8" x 7.4"
T62	In-Wall Speaker Performance	6.5" Graphite W/ Rubber Surround	1" Pivoting CatEye Parachute Silk Soft Dome	Pair	40-20K	120W	87dB	8 ohm	12.4" x 9"	3.62"	10.8" x 7.4"
T63	In-Wall Speaker Reference	6.5" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Pair	38-20K	150W	89dB	8 ohm	12.4" x 9"	3.62"	10.8" x 7.4"

5.25" LCR



Model	Description	Woofer	Tweeter	UOM	Freq Response	Power	Sensitivity	Impedance	Dimension	Depth	Cut Out
T53LCR	In-Wall LCR Reference	Dual 5.25" Carbon Fiber W/ TPR Surround	1" Pivoting Ceramic Coated Aluminum Dome	Each	50-20K	150W	\$229.99	8 ohm	15.9" x 8.2"	3.14"	14.4" x 6.7"



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