

ADVANCING THE SCIENCE OF SOUND.

ELITE® EX SERIES AND PIONEER® ARCHITECTURAL LOUDSPEAKERS.
IN-WALL AND IN-CEILING SOLUTIONS FOR PEOPLE AS SERIOUS
ABOUT HOME ENTERTAINMENT AS WE ARE.



It makes sense that a company with a sonic heritage as distinguished as Pioneer's would meet the challenge head on when it comes to perfecting architectural loudspeaker systems. Pioneer began making speakers—and history—in 1938, with the introduction of the Model A-B loudspeaker,

establishing the company as an industry leader and setting the stage for innovations to come. Best-in-class engineering is a founding principle at Pioneer, with engineering milestones and landmark products across the audio and video landscape. Pioneer is the leader in A/V receiver, optical disc and plasma display technology, pushing the performance of sound and pictures beyond the limits of reality. It's all in the engineering, and no one knows better than Director of Speaker Engineering Andrew Jones. World-

renowned for his work in sound reproduction, Jones and his team furthered the state of the art with Pioneer's CST driver technology and the groundbreaking TAD and EX Series loudspeakers. Now, the company that set the standard for sonic excellence introduces a complete range of in-wall, in-ceiling and subwoofer systems—20 models built for nearly every application—with the same commitment to the ultimate home entertainment experience that has long established Pioneer as the first choice of professional installers.

THE CST ADVANTAGE: NO ORDINARY IN-WALLS.

Pioneer's Coherent Source Transducer is a driver technology evolved from cutting-edge TAD and EX Series loudspeakers. A time-coherent point source, the CST delivers the most accurate mid and high frequencies over a wide area, while drastically minimizing distortion resulting from time-delay anomalies.



ELITE EX SERIES SPEAKERS

CST TECHNOLOGY: CINEPHILES AND AUDIOPHILES REJOICE.

Based on the award-winning EX platform, Pioneer introduces a reference-class system that redefines the architectural speaker category. The Elite EX Series is specifically designed to deliver the most faithful reproduction in dedicated home cinema and two-channel systems for critical listeners who revel in pristine performances and ultimate fidelity.



S-IW691
6 1/2" Reference Standard In-Wall CST Speaker

S-IW891
7 1/4" Reference Standard In-Wall CST Speaker

S-IW691L
6 1/2" Reference Standard In-Wall CST LCR Speaker



S-IC691A
6 1/2" Reference Standard In-Ceiling CST Speaker

S-IC891A
7 1/4" Reference Standard In-Ceiling CST Speaker



S-W1EX
12" Reference Standard Powered Subwoofer

- Coherent Source Transducer (CST) Technology
- Three-Way Design
- 1 3/8" Ceramic Graphite Tweeter
- 5 1/2" Magnesium Midrange
- Aramid/Carbon Composite Shell Woofer

- Laminated MDF Baffle
- Treble Contour Control
- Phase Control Design
- Angled and LCR Configurations for Home Cinema Applications
- Integrates with Floor-Standing EX Models

PIONEER CST SPEAKERS

PERFORMANCE BEYOND THE PIVOTING TWEETER.

For home theater or multiroom applications that demand performance superior to pivoting driver designs, Pioneer CST speakers offer an affordable experience inspired by our EX products.



S-IW651-LR
6 1/2" In-Wall CST Speaker

S-IW851-LR
8" In-Wall CST Speaker

S-IC651-LR
6 1/2" In-Ceiling CST Speaker

S-IC851-LR
8" In-Ceiling CST Speaker

- Coherent Source Transducer (CST) Technology
- 1 1/2" Aluminum Tweeter
- Mica-Filled IMPP Woofer

- Treble and Bass Contour Controls
- Phase Control Design
- Thermal Protection Circuit
- 120-Watt Power Handling

PIONEER SUBWOOFERS

The added authority of three powered subwoofers perfectly complement audio and video systems built around the Pioneer and Pioneer CST series speakers.



S-W301
8" Powered Subwoofer (Speaker grille included)

S-W501
10" Powered Subwoofer (Speaker grille included)

S-W601
12" Powered Subwoofer (Speaker grille included)

PIONEER CUSTOM SPEAKERS

ENGINEERING PROWESS IN ITS PUREST FORM.

These models offer a range of application solutions that challenge industry convention with benchmark entry-level performance and build quality, expanding the entertainment experience throughout the home.



S-IW631-LR
6 1/2" In-Wall Speaker

S-IW831-LR
8" In-Wall Speaker

S-IW531L
5 1/4" In-Wall LCR Speaker



S-IC631-LR
6 1/2" In-Ceiling Speaker

S-IC831-LR
8" In-Ceiling Speaker

S-IC621D
6 1/2" In-Ceiling Dual Voice Coil Speaker

S-IC821D
8" In-Ceiling Dual Voice Coil Speaker

- 1" Pivoting Soft Dome Tweeter
- Polypropylene Woofer
- 3-Position Treble Contour Control
- Phase Control Design
- Thermal Protection Circuit

- 100-Watt Power Handling
- In-Wall LCR Fits Within Standard 1.6" Stud Spacing
- 6 1/2" and 8" Humidity Resistant Single-Point Stereo Options



CST: COHERENT SOURCE TRANSDUCER.
THE CONCENTRIC SOLUTION.



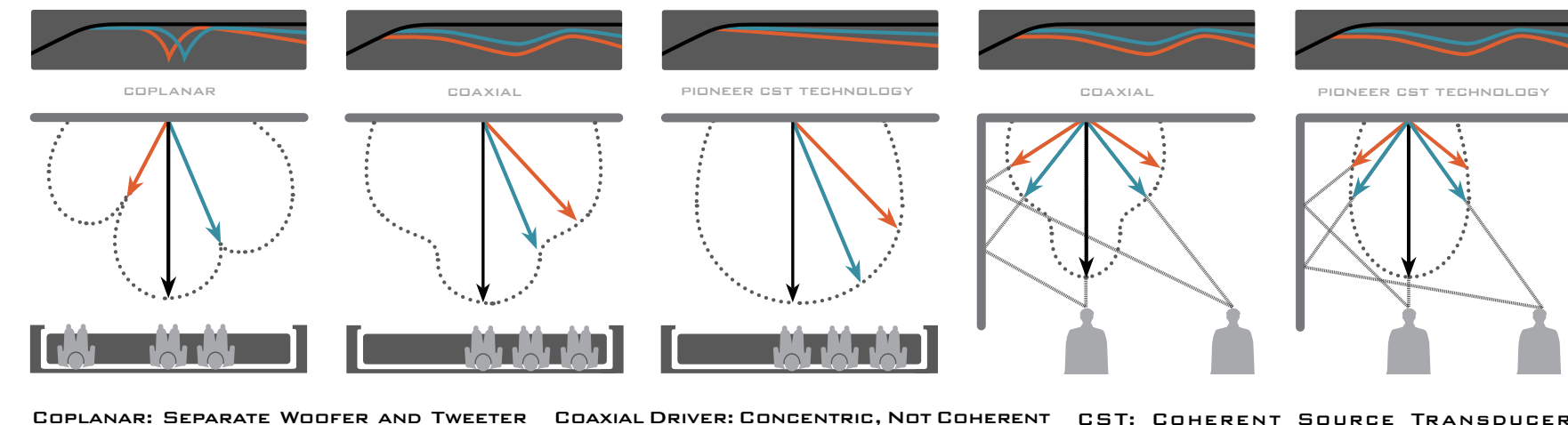
THE CST USES TECHNOLOGY DEVELOPED FROM THE TAD REFERENCE ONE AND EX SERIES SPEAKERS.

The CST employs a tweeter, concentrically mounted at the apex of the bass/midrange driver cone to maintain sonic coherence and seamless linearity. This configuration ensures that sound propagates as if

from a single point source, maximizing image stability and dramatically reducing interference. Directivity is precisely controlled at all frequencies, and direct and reflected sound arrives at the listener

with matched timbre—especially important with in-ceiling speakers, where unwanted reflections compromise clarity and impact. Listeners enjoy a wider sweet spot than with pivoting coplanar and

coaxial designs, while the CST's controlled dispersion increases flexibility and installation options. Uniform delivery of sound means that even off-axis positions can promise the excitement of a front-row seat.



COPLANAR: SEPARATE WOOFER AND TWEETER
Acceptable sound is only achieved over a relatively small area due to mismatched directivities and driver interference.

COAXIAL DRIVER: CONCENTRIC, NOT COHERENT
Improves upon coplanar designs, with a larger but still limited listening area by eliminating driver interference.

CST: COHERENT SOURCE TRANSDUCER
Matched directivity and elimination of driver interference results in sound as realistic off-axis as on-center.

Model Line		Elite EX Series In-Wall Speakers			Elite EX Series In-Ceiling Speakers	
Model Number		S-W691	S-W691	S-W691L	S-IC691A	S-IC691A
BASS DRIVER	CONE DIAMETER	6 1/2" (1.6cm)	7 1/8" (1.8cm)	6 1/2" (1.6cm) x2	6 1/2" (1.6cm)	7 1/8" (1.8cm)
	DIAPHRAGM	Aramid/Carbon Composite	Aramid/Carbon Composite	Aramid/Carbon Composite	Aramid/Carbon Composite	Aramid/Carbon Composite
CST DRIVER	MIDRANGE DIAMETER	5 1/2" (1.4 cm)	5 1/2" (1.4 cm)	5 1/2" (1.4 cm)	5 1/2" (1.4 cm)	5 1/2" (1.4 cm)
	DIAPHRAGM	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
TWEETER DRIVER	DIAMETER	1 3/8" (30mm)	1 3/8" (30mm)	1 3/8" (30mm)	1 3/8" (30mm)	1 3/8" (30mm)
	DIAPHRAGM	Ceramic Graphite	Ceramic Graphite	Ceramic Graphite	Ceramic Graphite	Ceramic Graphite
TREBLE LEVEL		2-position +, 0	2-position +, 0	2-position +, 0	2-position +, 0	2-position +, 0
IMPEDANCE		6 ohms	6 ohms	6 ohms	6 ohms	6 ohms
SENSITIVITY		87dB/2.83V	87dB/2.83V	87dB/2.83V	87dB/2.83V	87dB/2.83V
FREQUENCY RANGE		28-100kHz	28-100kHz	28-100kHz	28-100kHz	28-100kHz
CROSSOVER FREQUENCY		420Hz/2.5kHz	420Hz/2.5kHz	420Hz/2.5kHz	480Hz/2kHz	480Hz/2kHz
MAXIMUM POWER		150W	150W	150W	150W	150W
WEIGHT	(kg)	6.0kg	6.2kg	8.2kg	4.7kg	5.0kg
	(lb,oz)	13lb, 4 oz	13lb, 11 oz	18lb, 1oz	10lb, 6 oz	11lb
SIZE (MM)		309 x 491 x 107	309 x 491 x 107	676 x 294 x 102	340 x 225	340 x 225
WXHXD/O.D.XD (INCH)		12 1/8" x 19 1/8" x 4 1/8"	12 1/8" x 19 1/8" x 4 1/8"	26 5/8" x 11 5/8" x 4"	13 3/8" x 8 7/8"	13 3/8" x 8 7/8"
HOLE SIZE (MM)		273 x 455	273 x 455	640 x 258	305	305
WXH/O.D. (INCH)		10 3/4" x 17 1/2"	10 3/4" x 17 1/2"	25 3/4" x 10 3/4"	12"	12"

Model Line		Pioneer CST In-Wall Speakers		Pioneer CST In-Ceiling Speakers	
Model Number		S-W651LR	S-W651LR	S-IC651LR	S-IC651LR
CST DRIVER	WOOFER DIAMETER	6 1/2" (1.6cm)	8" (20cm)	6 1/2" (1.6cm)	8" (20cm)
	DIAPHRAGM	Mica-filled IMPP	Mica-filled IMPP	Mica-filled IMPP	Mica-filled IMPP
TWEETER DRIVER	DIAMETER	1 1/2" (38mm)	1 1/2" (38mm)	1 1/2" (38mm)	1 1/2" (38mm)
	DIAPHRAGM	Aluminum	Aluminum	Aluminum	Aluminum
TREBLE LEVEL		3-position +, 0, -	3-position +, 0, -	3-position +, 0, -	3-position +, 0, -
BASS LEVEL		2-position 0, -	2-position 0, -	2-position 0, -	2-position 0, -
IMPEDANCE		8 ohms	8 ohms	8 ohms	8 ohms
SENSITIVITY		86dB/2.83V	87dB/2.83V	86dB/2.83V	87dB/2.83V
FREQUENCY RANGE		32-40kHz	28-40kHz	32-40kHz	28-40kHz
CROSSOVER FREQUENCY		2kHz	2kHz	2kHz	2kHz
MAXIMUM POWER		120W	120W	120W	120W
WEIGHT	(kg)	3.2kg	3.2kg	3.1kg	3.1kg
	(lb,oz)	7lb, 1 oz	7lb, 1 oz	6lb, 13oz	6lb, 13 oz
SIZE (MM)		254 x 354 x 91	254 x 354 x 91	294 x 115	294 x 116
WXHXD/O.D.XD (INCH)		10" x 13 1/8" x 3 5/8"	10" x 13 1/8" x 3 5/8"	11 1/2" x 4 1/2"	11 1/2" x 4 1/2"
HOLE SIZE (MM)		219 x 319	219 x 319	258	258
WXH/O.D. (INCH)		8 1/2" x 12 1/2"	8 1/2" x 12 1/2"	10 1/2"	10 1/2"

Model Line		Pioneer In-Wall Speakers			Pioneer In-Ceiling Speakers		
Model Number		S-W631-LR	S-W631-LR	S-W631-L	S-IC631-LR	S-IC621D	S-IC621D
BASS DRIVER	CONE DIAMETER	6 1/2" (1.6cm)	8" (20cm)	5 1/2" (1.3cm) x2	6 1/2" (1.6cm)	6 1/2" (1.6cm)	8" (20cm)
	DIAPHRAGM	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
TWEETER	DIAMETER	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm) x2
	DIAPHRAGM	Polyester	Polyester	Polyester	Polyester	PEI	PEI
TREBLE LEVEL		3-position +, 0, -	3-position +, 0, -	3-position +, 0	3-position +, 0, -	2-position +, -	2-position +, -
IMPEDANCE		8 ohms	8 ohms	6 ohms	8 ohms	8 ohms	8+8 ohms
SENSITIVITY		86dB/2.83V	87dB/2.83V	87dB/2.83V	87dB/2.83V	89dB(2.83V+2.83V)	91dB(2.83V+2.83V)
FREQUENCY RANGE		32-30kHz	28-30kHz	32-30kHz	28-30kHz	32-25kHz	28-25kHz
CROSSOVER FREQUENCY		2.2kHz	2.2kHz	2.2kHz	2.4kHz	2.8kHz	2.8kHz
MAXIMUM POWER		100W	100W	100W	100W	50+50W	50+50W
WEIGHT	(kg)	2.0kg	2.0kg	2.9kg	1.9kg	2.0kg	2.0kg
	(lb,oz)	4lb, 7 oz	4lb, 7 oz	6lb, 6 oz	4lb, 3 oz	4lb, 7 oz	4lb, 7 oz
SIZE (MM)		254 x 354 x 87	254 x 354 x 87	207 x 399 x 81	294 x 113	294 x 113	294 x 113
WXHXD/O.D.XD (INCH)		10" x 13 1/8" x 3 3/8"	10" x 13 1/8" x 3 3/8"	8 1/8" x 15 1/8" x 3 1/8"	11 1/2" x 4 1/2"	11 1/2" x 4 1/2"	11 1/2" x 4 1/2"
HOLE SIZE (MM)		219 x 319	219 x 319	171 x 363	258	258	258
WXH/O.D. (INCH)		8 1/2" x 12 1/2"	8 1/2" x 12 1/2"	6 7/8" x 14 1/2"	10 1/2"	10 1/2"	10 1/2"

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seeing and hearing like never before

ARCHITECTURAL LOUDSPEAKERS