Small Room Solutions

High-Quality, Cost-Effective Cinema Audio Products
for Small Room Applications

QSC™ CINEMA

SC-1120 Screen Channel Loudspeaker

The SC-1120 is a two-way, full-range screen channel loudspeaker with a passive crossover network. Optimized for small rooms up to 35 feet (11 meters) in length from the screen to the last row of seating, the SC-1120 consists of a single 12-inch (305 mm) low frequency transducer and a 1.75-inch diaphragm high frequency compression driver. The system includes a specially-designed high power passive crossover network, so it can be powered from a single amplifier channel.

The enclosure was designed to be platform mounted, and its shallow depth (less than 12 inches or 300 mm) dramatically reduces space requirements behind the screen.

	SC-1120
Frequency Range (-10 dB)[1]	48 Hz to 19 kHz
Rated Power	300 Watts
Sensitivity (1W, 1m) [2]	95.5 dB
Maximum Rated SPL[3]	120 dB @1m, continuous
Dimensions (HxWxD)	27.2 x 19.5 x 11.7 inches (690 x 497 x 297 mm)
Net Weight	51 lb (23.2 kg)

[1] Free-field, -10 dB from on-axis sensitivity
[2] On-Axis, free-field sensitivity, 2.83V, 1 m
[3] Calculated from rated noise voltage and sensitivity

SC-1150 Screen Channel Loudspeaker

The SC-1150 is a two-way, full-range screen channel loudspeaker with a passive crossover network. Optimized for slightly larger rooms up to 45 feet (14 meters) in length from the screen to the last row of seating, the SC-1150 consists of a single 15-inch (380 mm) low frequency transducer and a 1.75-inch diaphragm high frequency compression driver. The system includes a specially-designed high power passive crossover network, so it can be powered from a single amplifier channel. The front baffle is treated with sound absorbing material, reducing behind screen acoustical reflections. The enclosure's shallow depth (less than 12 inches or 300 mm) dramatically reduces space requirements behind the screen.

	SC-1150
Frequency Range (-10 dB)[1]	43 Hz to 19 kHz
Rated Power	400 Watts
Sensitivity (1W, 1m) [2]	96 dB
Maximum Rated SPL[3]	122 dB @1m, continuous
Dimensions (HxWxD)	27.2 x 30 x 11.7 inches (690 x 762 x 297 mm)
Net Weight	71 lb (32.3 kg)

[1] Free-field, -10 dB from on-axis sensitivity
[2] On-Axis, free-field sensitivity, 2.83V, 1 m
[3] Calculated from rated noise voltage and sensitivity

SC-2150 Screen Channel Loudspeaker

For rooms up to 55 feet (17 meters) in length from the screen to the last row of seating, the SC-2150 screen channel loudspeaker provides the ideal balance of high performance and economy. The SC-2150 is a 3-way, selectable passive or bi-amplified screen channel system comprised of a low frequency enclosure and a mid/high frequency component. The dual 15-inch (380 mm) low-frequency enclosure is only 14.5" (368 mm) deep, reducing the space required behind the screen compared to conventional cinema loudspeakers.

The mid-high component features a high output, horn loaded 6.5-inch (165 mm) midrange cone driver and a 1.4" (35.6 mm) diaphragm high frequency compression driver mounted to an adjustable pan and tilt bracket. QSC-patented Cine-Sight simplifies aiming of the horns for proper audience coverage.

The SC-2150 includes a switchable passive crossover for full-range or biamplified operation. A simple flip of the switch determines the operating mode. Power limiter circuitry protects the high-frequency and mid-frequency drivers from overpowering. The 3-way design provides exceptional reproduction of the critical midrange band for improved dialog intelligibility.

	SC-2150
Frequency Range (-10 dB)[1]	32 Hz to 20 kHz
Rated Power	500 Watts (passive mode)
Sensitivity (1W, 1m) [2]	99 dB (passive mode) / 100 dB (LF) / 102 dB (MF/HF)
Maximum Rated SPL[3]	126 dB @1m, continuous
Dimensions (HxWxD)	55.6 x 30 x 14.5 inches (1412 x 762 x 368 mm)
Net Weight	117 lb (53.1 kg)

[1] Free-field, -10 dB from on-axis sensitivity
[2] On-Axis, free-field sensitivity, 2.83V, 1 m
[3] Calculated from rated noise voltage and sensitivity

Loudspeaker**Systems**

SB-1180 Subwoofer

SB-2180 Subwoofer

The SB-1180 and SB-2180 subwoofers offer the maximum extended low frequency response from unusually shallow enclosures. Both models feature high excursion 18-inch low frequency drivers with 4-inch (100 mm) voice coils, providing output down to 30 Hz, making them the perfect extended low-frequency match for any of our Small Room screen channel loudspeakers.

	SB-1180	**SB-2180**
Frequency Range (-10 dB)[1]	29 Hz to 170 Hz	25 Hz to 150 Hz
Rated Power	550 Watts	1100 Watts
Sensitivity (1W, 1m) [2]	98 dB	100 dB [4]
Maximum Rated SPL[3]	125 dB @1m, continuous	130.4 dB @1m, continuous [4]
Dimensions (HxWxD)	35.9 x 30 x 11.7 inches (912 x 762 x 297 mm)	33.15 x 42.5 x 16.5 inches (842 x 1080 x 420 mm)
Net Weight	97 lb (43.5 kg)	187 lb (85 kg)

[1] Half-space, -10 dB from on-axis sensitivity
[2] On-Axis, free-field sensitivity, 2.83V, 1 m
[3] Calculated from rated noise voltage and sensitivity
[4] Preliminary

SR-8101 Surround Loudspeaker

For small rooms and budget-driven applications, there simply isn't a more economical surround loudspeaker than the SR-8101. The two-way SR-8101 combines a high power 8-inch (203 mm) low frequency driver with a 1-inch (25 mm) soft dome tweeter. Its narrow width profile allows the enclosure to be unobtrusive in any small room cinema application. Pre-installed speaker-side hardware allows fast single-installer mounting, and brackets support down-angles of either 15° (standard) or 23° (optional). Connections include parallel outputs to make multi-speaker configurations easy.

	SR-8101
Frequency Range (-10 dB)[1]	54 Hz to 20 kHz
Rated Power	125 Watts
Sensitivity (1W, 1m) [2]	91 dB
Maximum Rated SPL[3]	112 dB @1m, continuous
Dimensions (HxWxD)	19.5 x 12 x 9.6 inches (495 x 305 x 244 mm)
Net Weight	18.6 lb (8.4 kg)

[1] Free-field, -10 dB from on-axis sensitivity
[2] On-Axis, free-field sensitivity, 2.83V, 1 m
[3] Calculated from rated noise voltage and sensitivity

Power**Amplifiers**

DCA 1644 / DCA 1824

The DCA Series 4-channel power amplifiers offer four channels of power in a compact package that doesn't consume precious rack space. And, compared to the cost of multiple two-channel amplifiers, you'll find they leave more room in your budget as well.

Each DCA 4-channel amp is equipped with two DataPort connectors for use with a QSC DCP (Digital Cinema Processor), providing a total system solution that greatly reduces labor and wiring costs.

The DCA 1644 delivers 250 watts at 8 ohms from each channel, so you can power three SC-1120 or SC-1150 screen channel loudspeakers in a single chassis that occupies only two rack spaces (3.5 inches or 89 mm).

A single DCA 1824 is ideal for powering up to sixteen SR-8101 surround loudspeakers, since each channel can deliver up to 450 watts at 2Ω to four parallel 8Ω speakers.

	Channels	**Watts/Channel**		
		8Ω	4Ω	2Ω
DCA 1644	4	250 (20Hz to 20kHz, 0.05% THD)	400 (20Hz to 20kHz, 0.1% THD)	n/a
DCA 1824	4	170 (20Hz to 20kHz, 0.05% THD)	250 (20Hz to 20kHz, 0.1% THD)	450 (1kHz, 1% THD)

Signal**Processing**

DCP 100

The DCP 100 Digital Cinema Processor is the logical choice for maximum signal processing capability for any Small Room system. It is designed for systems of no more than eight channels (up to 7.1) in which all amplifiers will connect directly to the DCP via QSC DataPort. In one three rack space chassis, the DCP 100 combines digital signal processing, a booth monitor, crossovers, and status monitoring for up to three bi-amplified screen loudspeakers, minimizing cost, space, and installation time.

Digital In Channels	10*
Analog In Channels	8
Screen Channel Support	3
Screen Channel Operation	bi-amp or passive

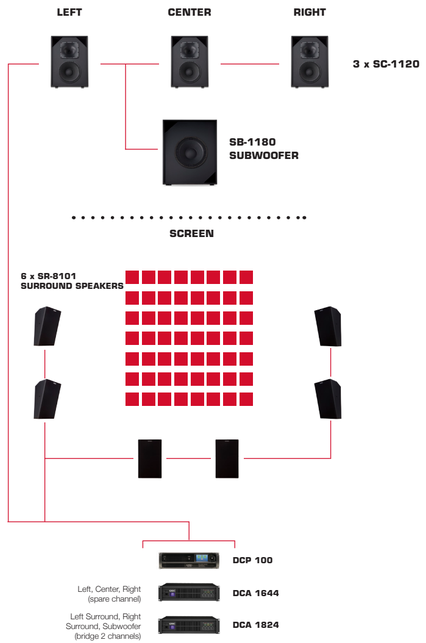
*including HI/VI channels

Sample**Systems**

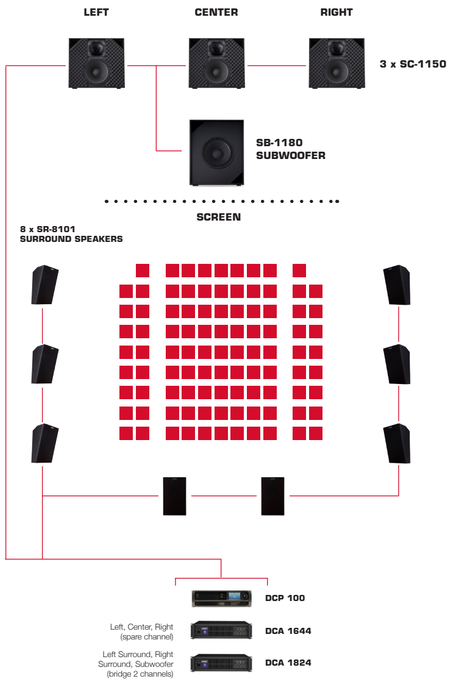
The following diagrams are examples of product applications in smaller cinemas. When specifying any system, it's important to make sure that the appropriate model and number of loudspeakers and amplifiers are selected. In all cases, it is recommended that QSC Technical Support is contacted to verify your system specification (CinemaTechSupport@qsc.com).

NOTE: These are sample systems only. Final system designs may vary depending on actual room dimensions.

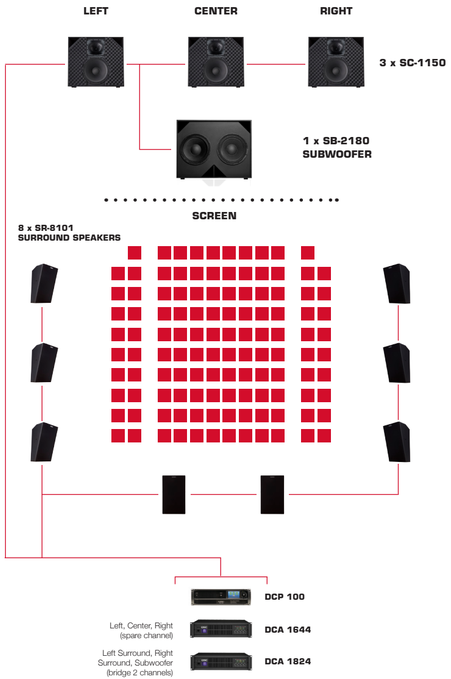
Screen to last row distance up to 35 feet - 10.6 meters
5.1 System



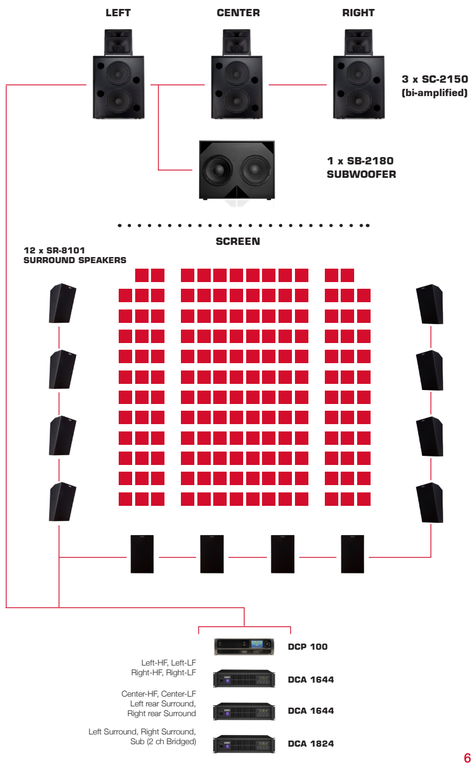
Screen to last row distance up to 40 feet - 12.2 meters
5.1 System



Screen to last row distance up to 45 feet - 13.7 meters
5.1 System



Screen to last row distance up to 55 feet - 16.8 meters
7.1 System



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