



**MURAUDIO SP1 BRING THE LIVE PERFORMANCE HOME**

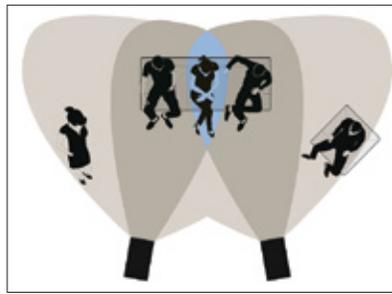
The award winning SP1 integrates Muraudio's high output continuous curve projected point source ESL panel with bespoke custom designed six inch aluminum cone drivers to create a beautiful, immersive, panoramic sound stage. The SP1s full range 120 degree horizontal listening window delivers Muraudio's signature "Sound is Everywhere<sup>®</sup>" listening experience with contemporary design and luxurious finishing.

Electrostatic loudspeakers (ESL) use electrostatically charged micro-thin polymer film suspended between two perforated aluminum plates to reproduce midrange and high frequencies. Muraudio's Mylar Diaphragm Technology creates enhanced dynamics through improved distribution of acoustic energy across the continuous curve of the ESL, delivering clear, detailed, natural sound. The SP1s virtually weightless, ultra-light electrostatic film moves with speed and precision, producing ultimate sonic accuracy. The SP1s total harmonic distortion is so low that it is comparable to levels only measured in high end amplifiers.

The SP1s long throw six inch aluminum low frequency drivers are paired in two independently sealed cabinets, combined with proprietary, tuned inertial reactionary dampers for tight bass response. These ultra-rigid drivers accurately reproduce frequencies below 750 Hz, and move so uniformly that modal resonances are inaudible. Over 6 kg of magnet structure provides the necessary force for deep bass extension, achieving  $F(-3) = 45$  Hz (anechoic).

Only professional grade, tight-tolerance premium components are used in the crossover and electronic systems. Air core inductors and Mundorf EVO oil capacitors ensure that critical high frequencies are perfectly reproduced. The SP1's high voltage transformer uses a precision wide bandwidth interleaved balanced design with ultra low leakage inductance, delivering clear highs without colouration, operating at low magnetic fields even at maximum power.

The SP1's multi-layer curved cabinet is designed for enhanced stiffness and low resonance. A stable acoustic center is maintained by mounting all drivers symmetrically in a D'Appolito configuration. The SP1 ESL panel and driver configuration are designed to produce a polar dispersion pattern similar to the ESL at the 750 Hz crossover, maintaining uniform tonality across wide horizontal positioning.

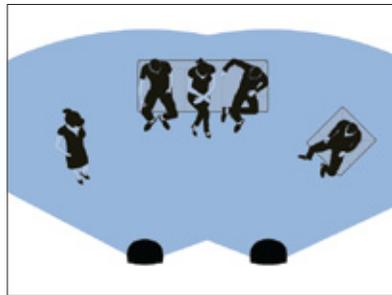


With conventional ESL and "Box" dynamic speakers, listeners outside of the "sweet spot" experience high frequency loss, poor stereo imaging, and a collapsed soundstage. They hear much more from the speaker they are closest to.

Poor fidelity and imaging. Nearest loudspeaker strongly dominates.

Less than ideal performance and poor imaging. Nearest loudspeaker still dominates.

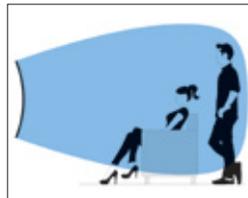
Ideal performance ("Sweet Spot"). Neither loudspeaker dominates.



Muraudio's 120-degree Projected Point Source ESL allows every listener in the room to enjoy full bandwidth, ultra-detailed, lifelike sound with three-dimensional stereo imaging. Your attention is drawn to an image point beyond the loudspeakers, extending the apparent size of your listening room, and recreating an expansive sound stage for everyone.



Traditional ESL speakers have extremely narrow vertical dispersion, delivering less than full fidelity sound to standing and reclining listeners.



The SP1's ESL panel disperses sound 16 degrees in the vertical plane for full fidelity listening from any position.

<b>Type</b>	Passive Hybrid Electrostatic
<b>ESL Transducer</b>	120 Degree Continuous Curve
<b>ESL Dispersion</b>	120 Degree Horizontal x 16 Degree Vertical
<b>ESL Area</b>	1,650 cm <sup>2</sup> (active area)
<b>ESL Type</b>	Ultra thin tensioned Mylar film (3.8µm)
<b>LF Enclosure</b>	Sealed design, curved multi-layer HDF, integrated upper and lower inertial reactionary mass dampers
<b>LF Alignment</b>	Sealed (Qts 0.72)
<b>LF Driver Area (Sd)</b>	340 cm <sup>2</sup> (effective area of all 4 drivers)
<b>Frequency</b>	45 Hz - 20 kHz (+/- 3 dB) Anechoic
<b>Response</b>	35 Hz - 22 kHz Typical Room, with gentle 12 dB/octave roll off of sealed design (versus 24 dB/octave of typical vented designs)
<b>HxWxD</b>	147 cm x 39.4 cm x 36.8 cm
<b>Weight</b>	45 kg
<b>Maximum SPL</b>	103 dB at 2m on axis
<b>Crossover</b>	750 Hz analog 2nd order Linkwitz-Riley
<b>Sensitivity</b>	86 dB (2.83V/1m)
<b>Input</b>	Dual 5-way gold-plated binding post
<b>Impedance</b>	8 Ohm (nominal) 2 Ohm minimum at 20 kHz

<b>Input power</b>	125 Watts Nominal (RMS) 250 Watts Maximum (Program Peak) Recommended amplifier 50 -125 Watts
--------------------	--



[www.muraudio.com](http://www.muraudio.com)

11 Tristan Court, Ottawa, ON, Canada, K2E 8B9 Toll free US & Canada 1.855.955.0360 International 1.613.454.1790

"MURAUDIO" and "Sound is Everywhere" are registered trademarks. Continuous Curve High Output ESL technology is patent protected. All text, data and images copyright Muraudio 2022. Specifications are subject to change.