



SOUND ADVICE Vol. 38, November, 16th 2007

Final Sound Solutions offers a new exciting solution in 2007: A 2.1 Stereo & Virtual Surround Sound package! This package includes a DVD Receiver with 75W class D, Dolby virtual Surround DSP and a complete AV switching module HDMI in and out, a universal Remote Control etc. and can be bundled with the Final Sound speakers 90i, 150i, 300i or 400i and a matching subwoofer, the S95.

DVD 2.1 Receiver for Stereo and Virtual Surround Sound



FVSS 201 | DVD 2.1 Receiver

General Virtual Surround Systems

During the last few years, virtual surround sound systems, created with only two front speakers and a subwoofer by processing the signal coming for instance from a 5.1 DVD, were introduced successfully. The processing of the signal is based on the Head Related Transfer Function (HRTF) Algorithm. The algorithm which is processed in a DSP results in a signal coming from the DVD, which gives the consumer an amazing surround effect coming from only two speakers. In short, the signal processing has the following effect:

- The front signal speaker signal comes straight through the front speakers, unprocessed.
- The center speaker function is created by applying the HTRF algorithm on the center speaker signal coming from the DVD playing through the front speakers which results in a virtual center channel, theoretically in the middle of the two speakers.
- The surround speaker functions are created by applying the HTRF algorithm on the surround speaker function coming from the DVD playing through the front speakers by applying of a time delay, a phase shift and a comb filter function through the algorithm. This results in an effect of two virtual surround speakers positioned left and right from the consumer.

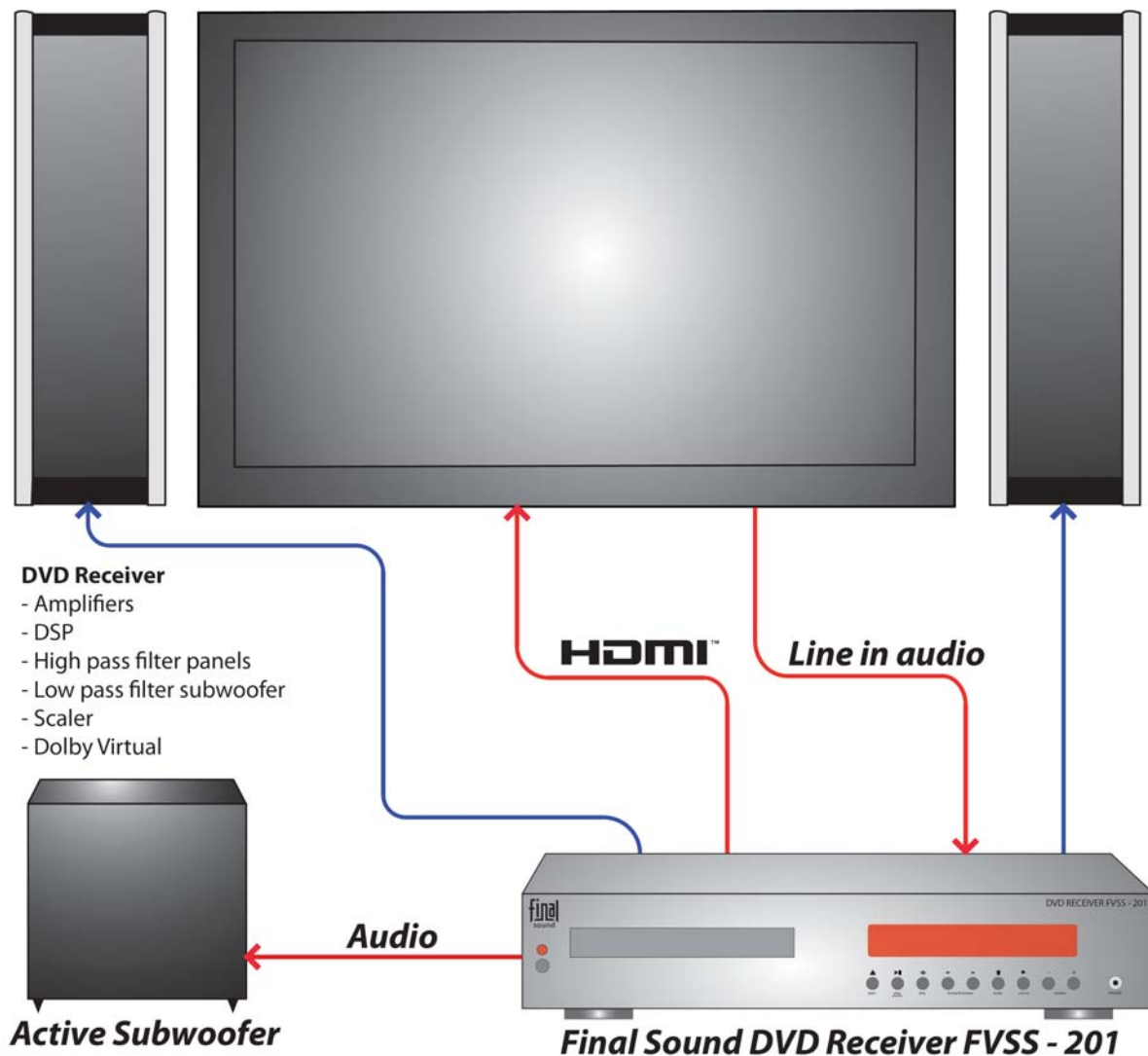
For any enquiries you can reach The Soundsmiths at: info@thesoundsmiths.com or call

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Final Sound's Solution for Virtual Surround

The existing virtual surround systems have major disadvantages as they all work with dynamic speakers. Indeed, in case of the combination of HRTF with dynamic speakers, the virtual surround effect will disappear only a few meter distance from the speakers, as the listener already will be in the



reverberant field.

Final's inverted electrostatic speaker however, is a Dipole and a Line Array. In case of a dipole line array, the virtual surround effect will propagate far deeper into the room as there are almost no reflections from the walls (dipole), the floor or the ceiling (line array).



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They have additional benefits as well such as:

- The separation of the high tones from the medium low tones on the diaphragm of the speaker, results already in a broader stereo image.
- The high tones on the diaphragm of the speaker is in fact a line array of infinite elements “a perfect line array”.

Effect on the virtual surround panel

- The principle of the HRTF is based on the experience that with the right management of the surround signals coming from the DVD and playing through the front speakers, the ear will get the experience that the signals are not coming from the front panels but from the left and right side of the ears.
- Because of the Dipole the reflections on the side walls will be substantial smaller than in the case of a dynamic speaker. Because of the Line array there will be no reflections to the floor and the ceiling resulting as well in a much further propagation of the (surround) sound in the room.

Effect on the Center Channel Function

- Final Sound's Inverter technology results in a Virtual Center Panel function that cannot be distinguished from a real Center Panel.

The DVD Receiver has all the filter settings build in, such as High pass filtering (90i, 150i, 300i and 400i), Shelving filter (mid base equalizer), Base equalizer and Phase set up. All the filter settings and acoustical controls can be set via the OSD (On Screen Display), just by selecting on the screen the speaker model (90i, 150i, 300i or 400i).

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Our 150i is more ambitious... Together with the Final subwoofer, it brings full range stereo performance.

It's a very flexible offering, an absolute stunning performer in as a stereo or home theatre. The 150i panels can be mounted on a wall or on optional floor stands. When you're moving up to a larger living space or simply want unobtrusive speakers with a phenomenal sound, look no further than the Final Sound 150i panels. The 150i is ideally for flat panel displays 42" and above. With our custom colors, you can match the 150i panels to blend in with your display.

Patented Technology You Can Only Get from Final Sound

Electrostatic speakers represent the pinnacle of high-end audio performance. The unique electrostatic technology delivers the purest and most lifelike form of sound reproduction available in today's market. For decades, the sheer cost of production has kept these audio marvels beyond the reach of most hi-fi and stereo consumers. Now, thanks to exclusive new technology pioneered and patented by Final Sound, a line of high-definition, high-performance electrostatic speakers are available at popular prices and designed especially for the home theater.



Electrostatic VS Dynamic Speakers

Dynamic speakers use cone-shaped drivers made of paper, plastic, or even fabric and move back and forth to create sound waves. The signal is sent to the cone through a voice coil. As the signal shifts from positive to negative, the energy vibrates the paper cone, moving the air to create sound waves.

Electrostatic speakers simplify the process, using one thin diaphragm held between two charged stators. With the new Final Inverter Technology™, the entire signal arrives at the exact same moment, forming a single wave that reaches the listener in perfect phase and time. The result is the most open and lifelike speaker precision known in the world of high-performance audio.

Performance

- Highest audio resolution and clarity
- Lifelike sound that's virtually distortion-free
- Ideal complement for DVD-Audio and HDTV
- Exclusive, patented speaker technology

Value

- Unique design eliminates heavy speaker cabinets
- Easily powered by as little as 35 watts per channel
- Most affordable high-definition speakers ever built
- Widest audio coverage available

Design

- Lightweight, ultra-slim, easy to wall mount
- Sleek and elegant design fits with any decor
- Matched for ideal crossover with Final subwoofers
- Easily scales to seven speakers or more

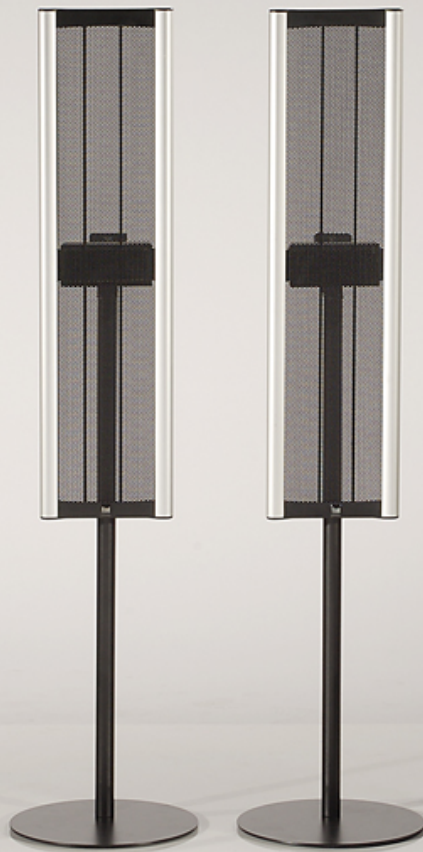


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DVD2.1 Receiver + 2 Stereo 150i Panel
with floor stand + Subwoofer S110 –
silver/ black colour

Rs. 2,13,000/- + VAT

**Stereo 150i
Loudspeaker**



**S110
Subwoofer**



FVSS 201

DVD 2.1 Receiver