

SP-X9700 | 280 WATTS 17" WOOFER

Sansui High-Resolution 4-Way, 7-Speaker System, 280 Watts Capacity.



Only hi-fi, everything hi-fi.



The Sansui SP-X9700: Beautiful Balance of Power and Delicacy in 7-Speaker System with 17-Inch Woofer – 280 Watts Capacity and High 100dB/W/m Efficiency.



Really Rich Bass: The 17-inch woofer has nonresonant frame and a cone that could move mountains.

If you could put enough power into the Sansui SP-X9700 you probably could move mountains, or at least create a couple of man-sized quakes. As it is, the very high power capacity of the system is more than enough to handle most of today's mammoth power amps and receivers—280 watts!

Woofer design and construction in such a large system naturally need to be fully up to state-of-the-art standards if you want to avoid spurious vibration, excessive heat and the various kinds of distortion they lead to. Sansui forms the cone of a special pulp formulation, gives it a carefully calculated curvature, adds corrugations to break up damaging surface waves, and thus preserves all the dynamic punch of your music's "bottom end" with ease.

The bobbin in the woofer voice coil is of aluminum for quick heat dissipation: the coil itself is coated with a heat-resistant film. Together they provide high linearity up to a tested level of 200 degrees Celsius.

For the magnetic circuit we've set a high flux density of 11,300 gauss and thus achieved more-than-adequate drive and damping. Of special note is the concave recess at the top of the center pole, helping to keep the top plate magnetically saturated for the reduction of harmful 3rd harmonic distortion. Musicality is richer at all input levels.

Finally, frame dynamics were analyzed in several prototype models until we eliminated destructive resonance. The entire woofer assembly is structurally sound—and no amount of high-amplitude input up to the rated capacity can cause "woofer buzz."



Close-Up Midrange: Special Sansui techniques preserve the intimacy of vocals, fidelity of fundamentals.

High efficiency is just one of the design criteria met and surpassed by the 8-inch midrange speaker unit in the Sansui SP-X9700. To preserve the natural, "close-up" feeling of vocals, and to retain a high degree of fidelity with the fundamentals of musical instruments, we chose a cone pulp mixture of highly elastic, thermally stable fibers.

The new method of pressing the cone has ensured a high signal-to-noise ratio and a flat frequency response over the frequency range assigned to this unit. Sound transparency and crisp, intimate "presence" are the benefits.

For increased power handling, the same techniques used in the voice coil and magnetic circuit of the woofer are again employed here: harmonic distortion is discouraged even when the maximum input of 280 watts is introduced over long periods of time.



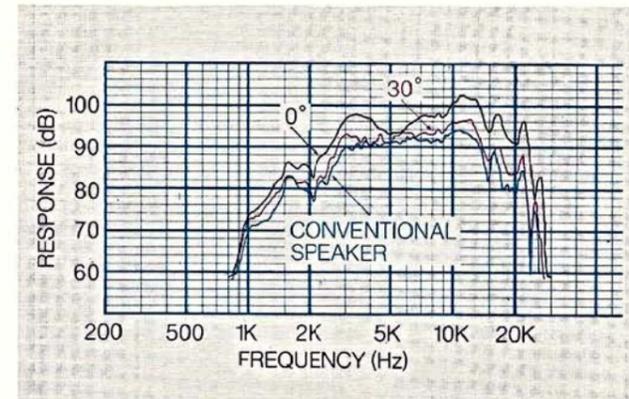
Aluminum Bobbins



Cracklin' Clean Highs: Well-defined high-frequency reproduction is sent into every corner of your room.

Dual horn tweeters cover the frequency range between where the midrange leaves off and the supertweeters take over. This is the high range where musical definition is determined for cymbals, reeds, strings and the upper harmonics of most other instruments, electric and electronic instruments included.

The two horn tweeters are identical, and are connected in parallel to increase efficiency and power handling capacity. Each has a powerful magnetic circuit and a phenol-resin diaphragm; a precision-machined zinc die-cast acoustic equalizer is positioned as closely as technically possible to the diaphragm to maintain phase integrity and extend the high-frequency limit. The drivers are then coupled to nonresonant zinc die-cast horns formed with sectoral fins to improve dispersion and transient response.



Triple Supertweeters: What you can't hear CAN hurt.

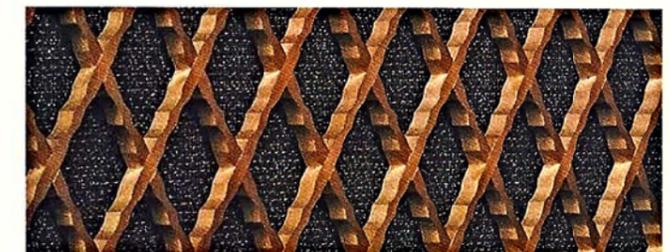
The three precision supertweeters in the Sansui SP-X9700 cover the extreme high-frequency range clear into the supersonics up to 23,000Hz with accuracy and fidelity. You may argue that you can't hear the super-highs, but our tests have shown that when they are reproduced with integrity, the frequencies you CAN hear come out cleaner, crisper and more musical.

Again, special pulp is used in the cone diaphragms, which are then installed with mylar center caps for phase linearity. The trio of supertweeters is mounted on a unique tri-sided projection on the front baffle so that the super-highs are beamed into every corner of your listening room.



Level Control: Special low-distortion network improves musicality.

Three positions are provided on the front-panel Level Control: NATURAL, SOFT-1 and SOFT-2. It's easy to match the speaker system's response to your acoustic environment, using the SOFT positions when you feel that highs are too "brilliant." The control works from a newly-designed crossover network featuring low electrical loss, high power handling and low distortion.



Real-Wood Grille: Sansui's traditional Kumiko design adds distinction.

High-density "acoustic" particleboard forms the massive bass reflex enclosure of the SP-X9700 for resonance-free reproduction. Standing waves are damped by two types of sound absorbent inside. The exterior is finished in attractive walnut grain and the removable real-wood grille is handcrafted in our traditional Kumiko pattern as a sure sign that your system is from Sansui, where it's all hi-fi.



Specifications

SPEAKERS

WOOFER
MIDRANGE
TWEETER

432mm (17") cone type
208mm (8 $\frac{3}{16}$ ") cone type
171mm X 59mm
(6 $\frac{1}{16}$ " X 2 $\frac{3}{16}$ ") X 2 horn type
49mm (1 $\frac{1}{16}$ ") X 3 cone type

SUPERTWEETER

MAXIMUM INPUT POWER

280 watts

IMPEDANCE

8 ohms

SENSITIVITY

100dB/W (JIS at 1m)

FREQUENCY RANGE

22 to 23,000Hz

CROSSOVER NETWORKS

4-way, 18dB/oct., 12dB/oct., 6dB/oct.

CROSSOVER FREQUENCIES

1,000Hz, 7,000Hz, 15,000Hz

DIMENSIONS

470mm (18 $\frac{1}{2}$ ")W

688mm (27 $\frac{1}{16}$ ")H

270mm (10 $\frac{5}{8}$ ")D

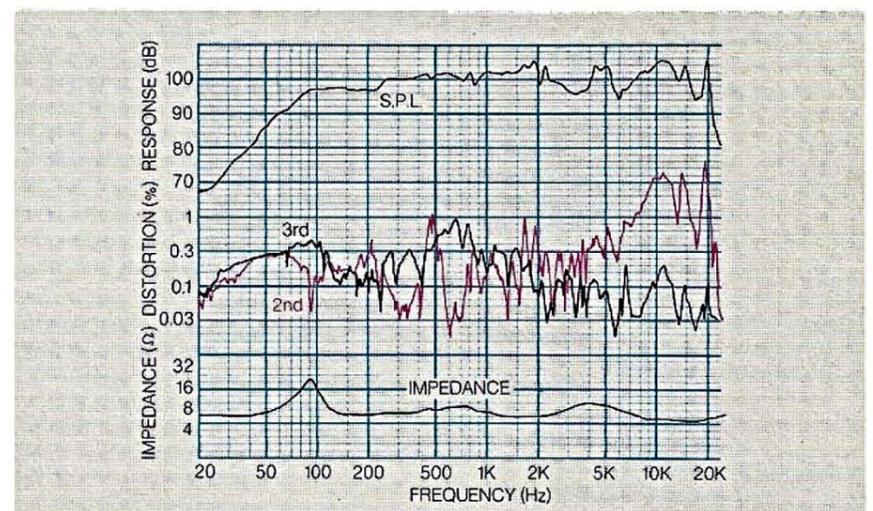
WEIGHT

20.3kg (44.8lbs.) Net

22.5kg (49.6lbs.) Packed

FINISH

Simulated walnut grain



Design and specifications subject to change without notice for improvements.



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