

SANSUI SP3500A

4-WAY 6-SPEAKER MULTI-DIRECTION SPEAKER SYSTEM



Sansui's exclusive Multi-Direction speaker systems take you beyond the ordinary forward-only reproduction of sound source points to an incredibly lifelike way of recreating the original sound field. The secret is in the Multi-Direction configuration, a new way of angle-mounting the individual speaker units to project the complex, overlapping

sound wave patterns of music into every corner of your listening room. This is especially important in stereo or 4-channel when dimension is as essential as tonality. The super-sized Sansui SP-3500A handles a big 105 watts of input, opening up a totally new and dynamic experience in sound. The six matched speaker units include the large 14" cone woofer, two

angle-mounted cone midranges *and* a special horn midrange, and two angle-mounted horn tweeters. The high-performance LC-type crossover network with level controls, the big bass-reflex enclosure, handcarved Kumiko fretwork grille, and other special touches enhance the system's good looks and smooth, musical performance.

Sansui

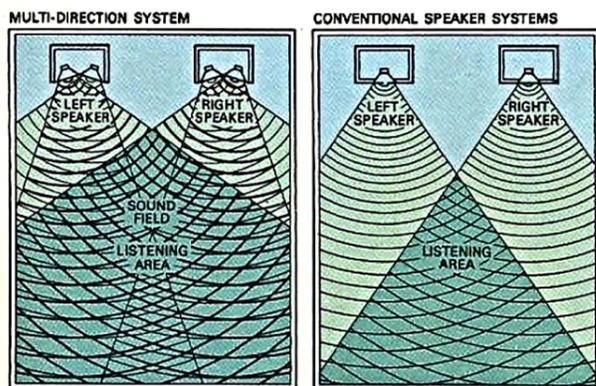
Angle-mounted speakers add thrilling sound dimension.

4-WAY 6-SPEAKER, 105 WATTS

The SP-3500A is of a 4-way 6-speaker design, consisting of a large 14-inch high-cut type, high-compliance woofer, a 4 $\frac{1}{8}$ " by 2-inch horn midrange with a sound diffuser and a pair of Multi-Direction (MD) system 4-inch cone midranges with aluminum radiators. Plus a pair of 2-inch MD system horn tweeters for the highs. Thanks to the use of specially constructed, rugged voice coils, the system is able to handle up to 105 watts in power input.

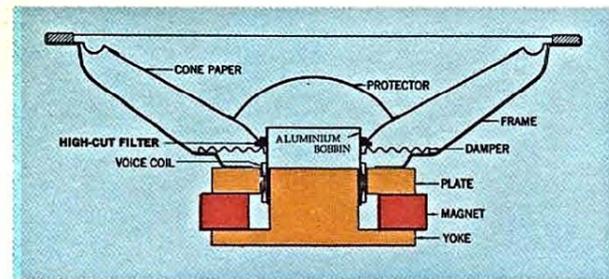
MULTI-DIRECTION SYSTEM

A Sansui-exclusive method of speaker mounting, Multi-Direction (MD), angles the midranges and tweeters to create a "whirlpool of sound" within the listening room. This acoustic development gives you an exciting liveliness, a sense of 'presence', that is significant when the speakers are used either in 4-channel or 2-channel application.



NEWLY DESIGNED WOOFER

The newly developed high-cut type woofer of the SP-3500A permits the output signal of the amplifier to be fed directly into the woofer, bypassing the crossover network. The result is a very smooth frequency response even at very low frequencies, which in turn results in extremely well-damped rich bass sound. This special design is unique with Sansui. Another



outstanding advantage of this woofer is found in its high compliance. The woofer achieves a stable piston action with superior transient response even in the face of big power inputs. Quality copper coil, aluminum bobbin, and a cone of carefully selected pulp help to improve the speaker's frequency response as well as its sound diffusion at extremely low frequencies.

HORN MIDRANGE

Sansui engineers have placed a lot of emphasis on the midranges—those important frequencies where the vast majority of musical instruments perform. One of the speakers used is a 4 $\frac{1}{8}$ " by 2-inch midrange for the frequencies from 1,000 to 5,000Hz. While the cut-off frequency of this speaker is set as low as 1,000Hz, it is intentionally used in the higher frequencies to eliminate the obnoxious metallic feeling peculiar to horn speakers. A short-cut, exponential type die-cast from aluminum, this speaker is fronted with a sound diffuser (acoustic lens), giving it excellent sound dispersion characteristics. It also utilizes a 25mm ϕ titanium diaphragm for top timbre qualities.

CONE MIDRANGES

Two 4-inch cone midranges are mounted at an interior angle of 15 degrees to the front as a part of the SP-3500A's MD System. Together with the horn midrange speaker, they handle the midrange sound in an "acoustic staggering system" for greater depth and richness of reproduced sound. Each of the



cone speakers has a newly developed concave aluminum dome radiator directly mounted on its voice coil bobbin. This permits a very smooth transition to the tweeters with virtually

no phase agitation, and helps to improve the diffusion of reproduced sound as well. Designed to effectively diffuse radiated heat, each speaker is able to withstand big power input. The rear of each speaker is sealed with big-cavity plastic covers lined with abundant acetate sound absorbent to completely prevent woofer interference.

2-INCH HORN TWEETERS

Two 2-inch horn tweeters, arranged vertically, handle frequencies over 8,000Hz. The upper tweeter is tilted to the left by 3 degrees and the lower tweeter to the right by 3 degrees, improving sound dispersion for a reinforced sound field effect. Each has a light vibrating system with a new-type 19mm ϕ polyester diaphragm, and reproduces treble notes that are a clear, refreshing timbre.

NEW CROSSOVER NETWORK

The SP-3500A has a high-performance LC type network with an ideal E-type ferrite core, and is mounted on a printed circuit board for reliability. Level controls for the mid-ranges and tweeters are of a unique 3-step (SOFT, NATURAL and CLEAR) "tap-down" switch design. They ensure accurate level control and are free from the faulty contact and performance-deterioration disadvantages of resistor-type attenuators.

BASS REFLEX CHIPBOARD ENCLOSURE

The bass reflex speaker design has two projecting pipe ducts. It completely avoids an unnatural increase in sound pressure at low frequencies and gives a flat frequency characteristic and very low-distortion factor. The solid chipboard cabinet is able to reproduce heavy rich bass naturally. Its mitered joint construction increases rigidity and structural strength and assures damped cabinet resonance, resulting in a solid bass sound. The cabinet features Sansui's handcarved Kumiko fretwork grille.

PUSHBUTTON CONNECTION TERMINALS

Effortless connections are made with the SP-3500A because of the use of foolproof one-touch pushbutton type connection terminals.

SPECIFICATIONS

SPEAKERS

WOOFER 355mm (14") cone type
MIDRANGE-1 100mm (4") X 2 cone type
MIDRANGE-2 110mm (4 $\frac{1}{8}$ ") X 50mm (2") horn type

TWEETER 50mm (2") X 2 horn type

POWER RATING 105 watts (peak)

IMPEDANCE 8 ohms

SENSITIVITY 98dB (new JIS at 1m, 1 watt)

FREQUENCY RANGE 26 to 20,000Hz

CROSSOVER NETWORK 4-way, parallel type

CROSSOVER FREQUENCIES 8,000Hz, 12dB/oct., low-cut for tweeter

FINISH DIMENSIONS

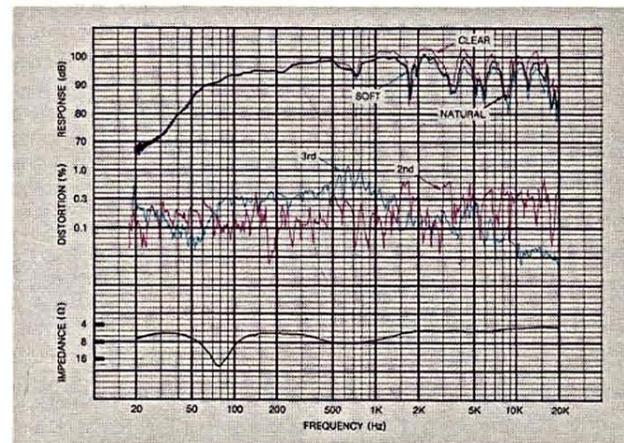
5,000Hz, 18dB/oct., low-cut for midrange
5,000Hz, 12dB/oct., high-cut for midrange
1,000Hz, 12dB/oct., low-cut for midrange
walnut-grained
450mm (17 $\frac{3}{4}$ ") W
627mm (24 $\frac{1}{8}$ ") H
285mm (11 $\frac{1}{4}$ ") D
22.8 kg (50.3 lbs) net
25.0 kg (55.1 lbs) packed

WEIGHT

Design and specifications subject to change without notice for improvements.



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