

# SANSUI SS100

OMNI-DYNAMIC STEREO HEADPHONES



Sansui gives stereo music listeners the rich bass of dynamic acoustic transducers as well as the wide frequency range and brilliant musical reproduction qualities of the electrostatic types in these all-new, smartly designed SS-100 stereo headphones.

"Omni" means that the diaphragms inside the comfortably fitting earpieces each distribute a uniform driving force

over its entire flat surface, avoiding split vibrations. The low mass of each diaphragm also means less total harmonic distortion and less phase distortion—the same advantages you have with electrostatic drivers. But since the SS-100 design is essentially dynamic, no electrostatic adaptor or special amplifier is required, and you enjoy a natural yet powerful bass reproduction as well.

With the Sansui Omni-Dynamic SS-100, frequency response is flat over the entire musical spectrum from superlows to ultrahighs. Harmonic distortion is minimal, impedance is flat with no trace of peaks or dips, and your amplifier or receiver is shown off at its best without overstraining.

Hear the new-concept SS-100 sound and judge for yourself. From Sansui, where it's *all* hi-fi.

# COMBINING THE BEST OF DYNAMIC AND ELECTROSTATIC PERFORMANCE

## OMNI-DYNAMIC PRINCIPLE

These handsome, Sansui-exclusive headphones employ an omni-dynamic transducer (diaphragm) in each earpiece. The units are made of polyester film, stretched to a uniform tautness and contained between two anisotropic magnet plates (Fig. 1). On the diaphragm film is etched a voice coil pattern (Fig. 2). And each of the magnet plates has a field (Fig. 3) which, when activated by the plus and minus pulsations of the musical input signal, moves the diaphragm to and fro based on Fleming's left-hand rule as applies to current flow in coils.

### Structure and Operating Principle of Omni-Dynamic Transducer

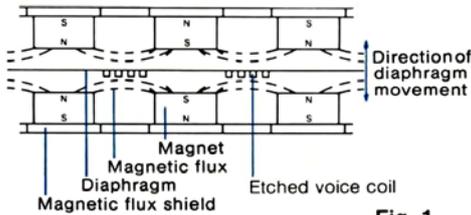


Fig. 1

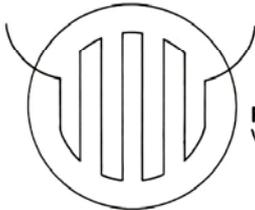


Fig. 2  
Voice coil pattern

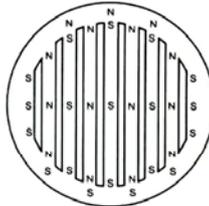


Fig. 3  
Magnetization pattern

## DRIVER CONSTRUCTION

### Omni-Dynamic Driver

As they are very thin and low in mass, the diaphragms offer excellent transient characteristics over a wider frequency range than can those shaped as cones or domes. This means you have a flat response from the superlows to ultrahighs with any musical input signal. Omni-dynamic drive means, too, that all sections of the diaphragm surfaces move in linear piston motion, without split vibrations, thus reducing harmonic distortion and extending dynamic range.

### Powerful Magnets

The anisotropic magnet plates in the SS-100 each have high magnetic density to afford the headphones the very high sensitivity (efficiency) of 94dB/mW.

### Optimum Amplifier Load

Since the impedance of these headphones is *literally constant at all frequencies*, your amplifier or receiver is asked only to deliver an optimum load, meaning that you are assured of the best sound quality from your unit.

### No-Adaptor Design

To drive the SS-100 simply plug in the provided jack at the headphone outlet on your amplifier or receiver. No AC power booster or other adaptor is required.

## FATIGUE-FREE DESIGN

### Comfortable Wearing

Eight neoprene supports separate the earpiece from the headband assembly, increasing wearing comfort. The earpads are soft and slim-silhouetted for further comfort, and the recess inside each is shaped to optimize air compliance for better musical reproduction, even into the very high frequency range.

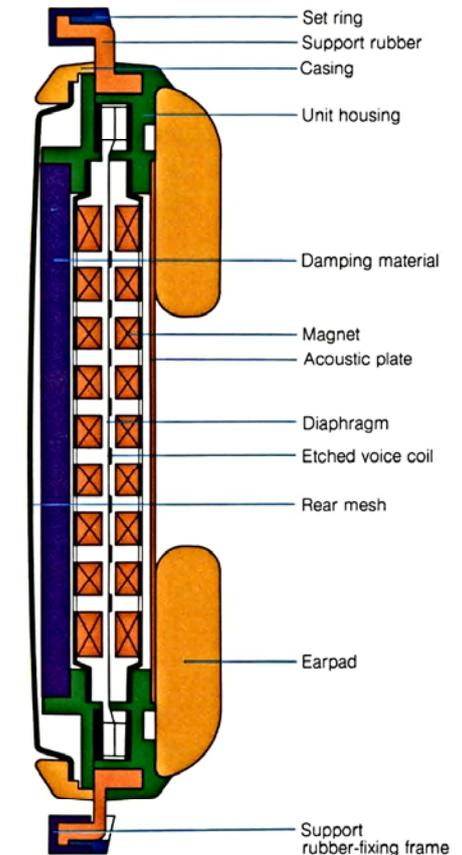
### Clear Channel Identification

You'll never confuse front and back or left and right: two clearly-marked arrows point to the front of the headset, and only the left

earpiece has a cable cord, both for channel identification and wearing comfort.

### Slim Design Throughout

Since these Sansui-exclusive Omni-Dynamic drivers themselves are flat, thin and compact, the earpieces have been designed to present a slim silhouette. Other design elements take up this low profile motif to result in a modern and quite comfortable stereo headphone set you'll enjoy for long years of hard use.



## SPECIFICATIONS

<b>SPEAKER</b>	Omni-dynamic driver 6.7cm (2 3/4") full-range type
<b>MATCHING AMPLIFIER IMPEDANCE</b>	4 - 100 ohms
<b>IMPEDANCE</b>	60 ohms nominal
<b>FREQUENCY RESPONSE RANGE</b>	20 - 20,000Hz
<b>HARMONIC DISTORTION</b>	less than 0.3% (at 94dB SPL)
<b>MAXIMUM INPUT POWER</b>	250mW
<b>SENSITIVITY</b>	94dB/mW (at 200Hz)
<b>CORD LENGTH</b>	2m (6.5ft.) coiled
<b>WEIGHT OF HEADPHONES ONLY</b>	380g (13.2oz.)

