

STAX electrostatic earspeakers

● The Best Headphone in the World

● Stax electrostatic earspeakers are widely used by the best recording studios and broadcast stations in the world. The simple reason for this is that these earspeakers deliver unsurpassed sound quality and the most accurate high fidelity reproduction possible.

The general advantages of headphones over speaker systems are:

1. The acoustic conditions of the listening room do not affect the sound.
 2. The diaphragms do not have to move much air (there is little load) therefore they can be made lighter to improve transient response.
 3. There is no danger of acoustic feedback (howling) to the turntable.
 4. The diaphragms are very close to the ears, so it is easy to pick up small musical details.
- The advantages of electrostatics over conventional headphones are:

1. The several micron thick high polymer film diaphragm is so light that it can respond accurately and instantaneously to the tiniest signal fluctuations.
2. There is no magnetic (hysteresis) distortion since no magnets or voice coils are used.
3. Electrostatic drive ensures uniform control over the entire diaphragm surface so there is no partial vibration or the cone breakup seen in dynamic type headphones.

● About PROFESSIONAL SERIES

The STAX professional series earspeakers have originally been developed for Daimler Benz, the world-famous West German automotive manufacturer. They feature a wider electrode gap realized by a increased bias voltage (580V). This resulted in a distortion-free bass sound along with a incredibly pure mid and high frequency range.

● The SR-Σ (Sigma) is a completely new kind of earspeaker developed over a long four year period. Its innovative design lets you enjoy more natural ambience reproduction than is possible with simple headphones. The diaphragms are placed forward away from the ears, since this is where most of the sound would be coming from in a normal music listening environment. The outer ear is not pressed, so the entire ear interacts naturally with the sound. Furthermore, a carefully designed cavity is employed to produce resonance characteristics simulating those occurring in a hall or room. All this results in a panoramic sound field without the feeling one has with conventional headphones that the sound is centered within one's own head. The employment of comfortable lightweight materials and a biomechanically engineered headband also contributes to the nonfatiguing pleasure of listening to music with the SR-Σ.

● The SR-Λ (Lambda) has such pleasing sound quality because its diaphragm is oblong, instead of round, as in the SR-Σ. This shape approximates the elliptical shape of the outer ear so that you use your entire ear to listen to the sound, just as you would in a natural listening situation. In fact, the diaphragm is actually larger than the average ear's dimensions to take full

advantage of the outer ear's response characteristics. The result is fuller low range response along with the uncolored mid and high range response typical of electrostatic reproduction. The design approach of the SR-Λ Professional and the SR-Λ won various prizes so far.

● The SR-Γ/Γ Pro are improved model of the SR-5N and SR-X/Mk-3 earspeakers. It offers the proven life-like sound qualities and performance of SR-5N and SR-X MK-3 earspeakers and features a new cage grid frame design. Thanks to the world's thinnest diaphragm, fashioned out of a high-molecular film 2.0 (1.5 for Pro) micron thick, the SR-Γ/Γ Pro achieve superb transient and uncomparable mid and high transparency. The new cage grid design gives full play to all the performance potential of the earspeakers and contribute to the lightweight, comfortable fit that will definitely enhance your listening pleasure.

SR-Σ



SR-Λ Professional
SR-Λ

The SR-Λ was awarded this prize at the International Summer Consumer Electronics Show 1981.



SR-Γ Professional
SR-Γ



	SP-Σ	SR-Λ (Pro)	SR-Γ (Pro)	SR-X/MK-3 (Pro)	SR-80	SR-30
Type	electrostatic/push-pull	← (High Bias)	← (High Bias)	← (High Bias)	electret/push-pull	←
Frequency Response	30 ~ 35,000Hz	8 ~ 35,000 (50,000)Hz	15 ~ 30,000 (40,000)Hz	30 ~ 25,000 (15 ~ 30,000)Hz	25 ~ 25,000Hz	25 ~ 25,000Hz
Impedance (10kHz)	122kΩ	122kΩ (143kΩ)	150kΩ	140kΩ	150kΩ	150kΩ
SPL (100V/1kHz)	94dB	102(103)dB	103dB	103dB	95dB	95dB
Earpad (replaceable)	soft artificial leather	soft artificial leather	soft artificial leather	soft artificial leather	soft artificial leather	soft artificial leather
Cord (low-capacitance)	2.5m/6-strand 6-pin plug	← (5pin plug)	← (5pin plug)	← (5-pin plug)	2.5m/4-strand 5-pin plug	←
Weight (without cord)	400g	325g	306g	370g	160g	170g