

FOSTEX

STEREO HEADPHONES

LABORATORY SERIES



Our commitment to extend the design and manufacture of our products to the bounds of technology is reflected in the RP Laboratory Series Headphones. Normally accepted engineering restrictions and limitations have been surpassed, resulting in a product that is truly the finest.

THE TECHNOLOGY

These headphones employ the unique Fostex "Regular-Phase" principle, a technology protected by fifteen patents pending. The direct result is a family of monitor quality headphones which combine the accuracy and smoothness of an electrostatic, with the simplicity and durability of a dynamic.

REGULAR PHASE

The drive elements of all Fostex headphones utilize a very light planar diaphragm which has the voice-coil pattern etched directly onto its surface. This diaphragm is suspended between opposing-pole magnet assemblies in a continuous and uniform magnetic field. The diaphragm, driven equally at all points, operates with a true piston motion, yielding constant, or regular, phase response. The principle is very similar to that of an electrostatic-type unit, but utilizes the power and reliability of magnetic force instead of static electricity.

The benefits of this technique are multifold; the moving mass of the element is up to 80% lighter than a normal dynamic type, resulting in outstanding transient response and dynamic range. This lighter diaphragm also produces an extended bandwidth, up to 35 kHz. The true piston operation provides an extremely low distortion, time-coherent signal, and will not break-up, even in very high power usage. Superb bass definition is an additional result of this excellent diaphragm control; the tightness and accuracy must be heard! Other benefits include a constant impedance characteristic, and excellent overload and power handling in headphones that are light and comfortable.

T10

The T10 headphones are the most economical of the Fostex RP Series, providing the superior performance of the RP system in a compact and lightweight design. The magnetic circuit uses a circular isotropic ferrite material with a spiral-shaped voice-coil deposited onto the polystel film diaphragm.



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T20

Long term comfort is the special feature of the T20, a result of the lightweight, fully adjustable headband and the large, soft earpads. Similar to the T10 in overall construction, the driver elements provide higher efficiency and extended bandwidth using anisotropic magnetic material. The T20 is an excellent choice for studio or broadcasting applications.

T30

A top-performance unit, the T30 is ideal for critical monitoring applications and features an extremely wide bandwidth. The T30 uses a very high density printed voice-coil pattern and the entire diaphragm is maintained under tension for added sensitivity.

T50

The ultimate, the T50 utilizes the characteristics of the RP system to the fullest. Additional power is obtained in the magnet circuits through the use of 22 anisotropic samarium-cobalt bar magnets for truly outstanding, low distortion performance. The T50 will satisfy the most critical requirements while retaining the rugged, high power handling capabilities of all Fostex headphones.

FINALLY.

In sonic performance, the Fostex RP Laboratory Series Headphones can only be compared to the finest monitoring devices available. Characteristics normally only associated with the best monitor loudspeakers, such as accuracy, phase-coherency, defined and controlled low end and phenomenal transient response are available in monitor headphones, from Fostex.



T50

Impedance: 60Ω @ 1KHz.
Sensitivity: 94dB @ 1mW input.
Maximum Power Input: 200mW (3.5 Vac)
Frequency Response: 20Hz - 20kHz
Cord Length: 3 m with ¼" stereo plug.
Weight: 400 g (without cord)

T30

Impedance: 50Ω @ 1KHz.
Sensitivity: 96dB @ 1mW input.
Maximum Power Input: 200mW (3.2 Vac)
Frequency Response: 20Hz - 35k Hz
Cord Length: 2.8m with ¼" stereo plug.
Weight: 330g (without cord)

T20

Impedance: 50Ω @ 1KHz
Sensitivity: 96dB at 1mW input
Maximum Power Input: 200mW (3.2 Vac)
Frequency Response: 20Hz - 30kHz
Cord Length: 2.8m with ¼" stereo plug.
Weight: 300g (without cord)

T10

Impedance: 50Ω @ 1KHz
Sensitivity: 91dB at 1mW input.
Maximum Power Input: 200mW (3.2 Vac)
Frequency Response: 20Hz - 25kHz
Cord Length: 2.8m with ¼" stereo plug
Weight: 270g (without cord)

