

RWO FOSTEX

# LABORATORY SERIES MONITORS



Standards change very slowly, sometimes never. And that is as it should be, for standards form our basis for comparison.

Now RWO/FOSTEX updates the industry standard with a new family of monitor systems.

## THE PHILOSOPHY

There is no magic, nor any heretofore unknown law of physics involved. Simply the application of rational, consistent, design engineering coupled with the belief that a monitor should impart no characteristic of its own onto its acoustic performance.

As the low-frequency performance of any monitor system is ultimately determined by the characteristics of the monitoring environment, the user should only need concern himself with selecting the monitor system appropriate to the size of the intended installation.

The RWO/FOSTEX Laboratory Series features three models. Each is optimized for a specific low-frequency cutoff, while maintaining a uniform standard of performance.

## THE PRODUCT

The hallmark of the Laboratory Series Monitors is extremely accurate, high efficiency, time-coherent reproduction. This breath-taking performance is identical from model to model, one indistinguishable from another in all but the lowest registers.

The High-frequency array used in the Series is common to all three models. Only the Low-frequency transducers and enclosures differ.

The LS/3 will become the standard choice for use in control rooms. A 40 cm LF driver in a 250 litre enclosure yields a 30 Hz response.

The LS/2 is ideal for small control rooms, mobiles and other installations where space is at a premium. This unit has a 45 Hz lower response limit, utilizing a 30 cm LF driver in a 76 litre cabinet.

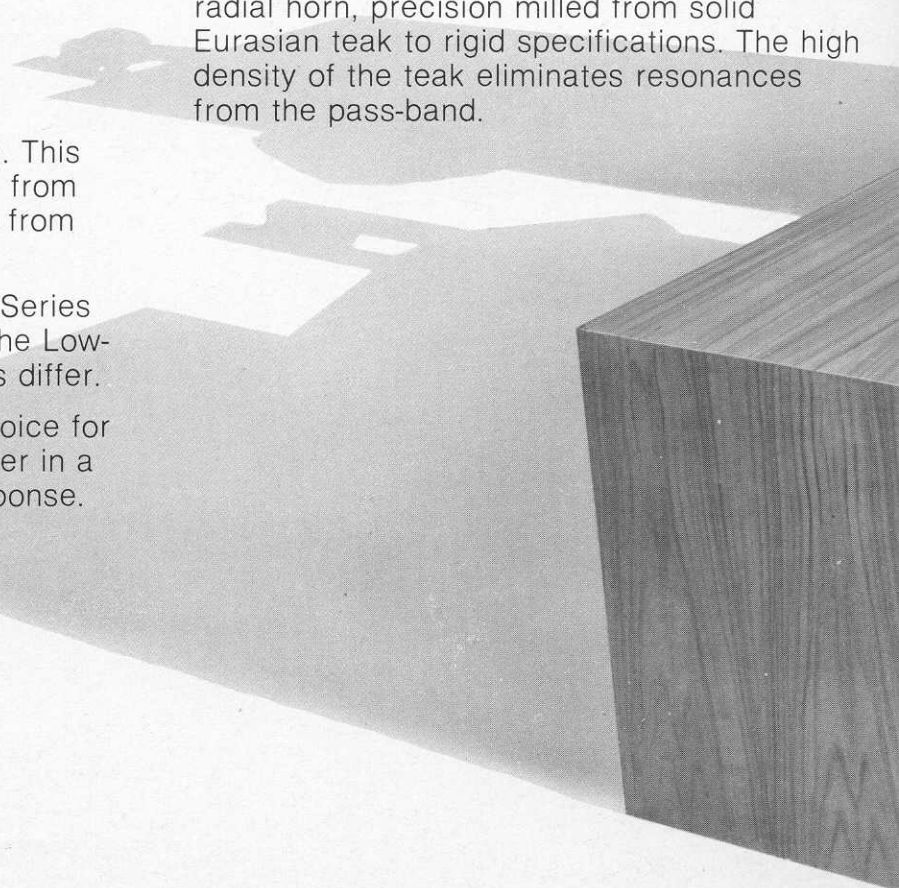
The LS/4 is unrivalled for applications in large, world class, control rooms and studios.

A four-way design, this outstanding system contains a 30 cm MF driver and dual 40 cm LF drivers in a 668 litre enclosure, with accurate performance to an astonishing 19 Hz.

The unique high-frequency array consists of UHF and HF transducers, critically mounted to obtain coherent time/phase system response and prevent reflections from the cabinet. These techniques result in excellent transient response and sensational sonic imaging.

The UHF transducer exhibits superbly smooth response to beyond 20 kHz, and an unprecedented 180° dispersion at 15 kHz, a consequence of the unique diffraction horn design.

The HF transducer features a no-compromise radial horn, precision milled from solid Eurasian teak to rigid specifications. The high density of the teak eliminates resonances from the pass-band.





All transducers used in the Laboratory Series are proprietary units featuring large, powerful ALNICO magnets for vanishingly low distortion, combined with edge-wound ribbon voice coils for high efficiency. The LF drivers also feature mica coil formers for continuous high power operation.

Computer-aided design techniques have been used in the development of the optimum configurations for each model, yielding maximally flat response down to the desired low-frequency cutoff point.

Each cabinet is constructed of high-density particle board, heavily braced with kiln-dried Canadian fir, and finished with Eurasian teak veneer and matte black laminate.

High performance and low loss in the crossover units is guaranteed through the use

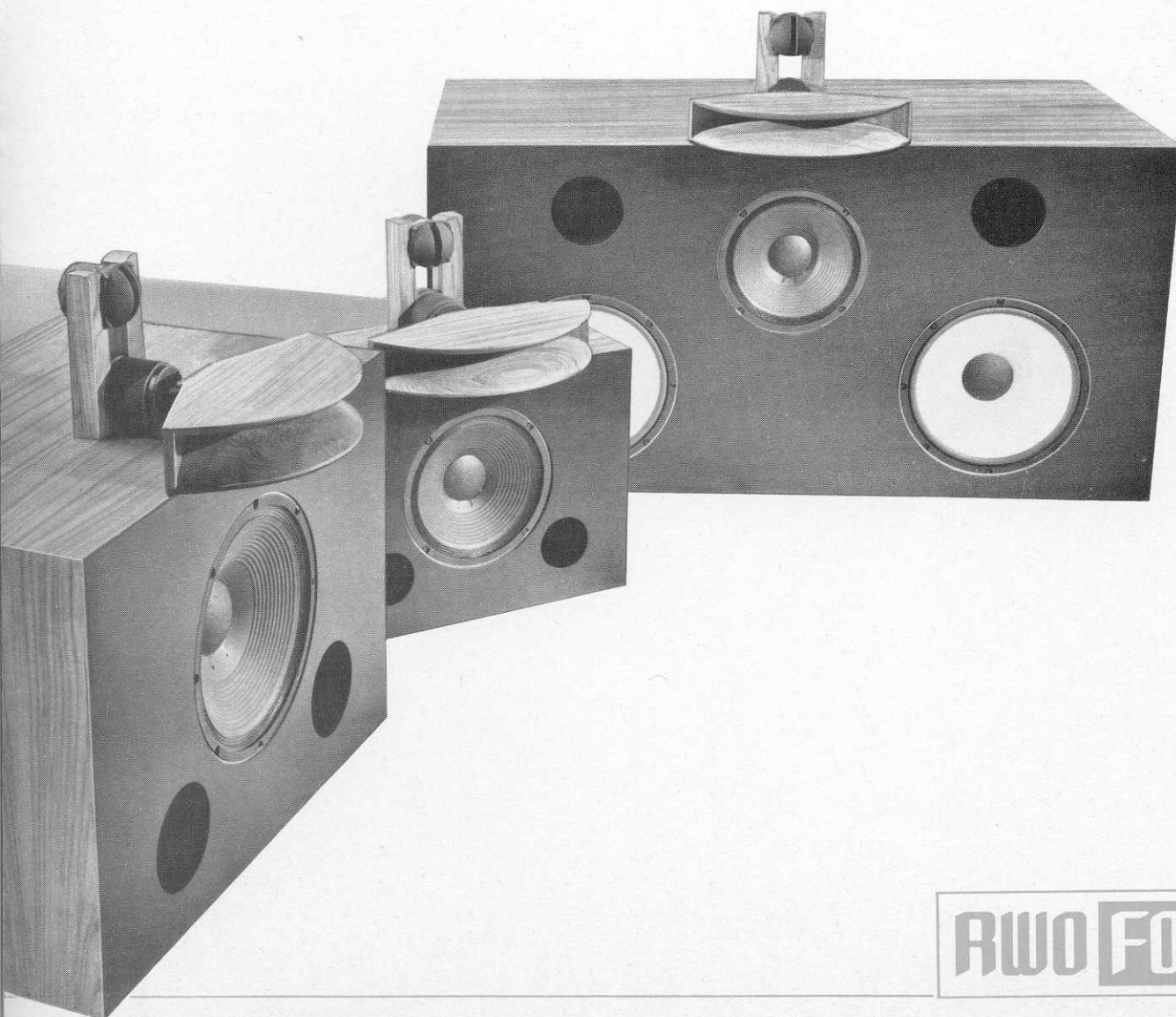
of heavy gauge wiring and close tolerance film capacitors. The high temperature porcelain attenuators are calibrated in dB, for convenience.

The Laboratory Series Monitors offer two to four times more output (with the crossover included) than old standards, reducing the need for bi- or tri-amplification and increasing the available headroom in the overall monitoring system.

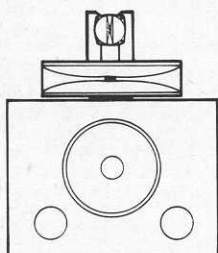
## THE BOTTOM LINE

All parameters of operation, including efficiency, distortion and time/phase and amplitude response have been optimized in the design of the RWO/FOSTEX Laboratory Series Monitors.

The results are stunning.

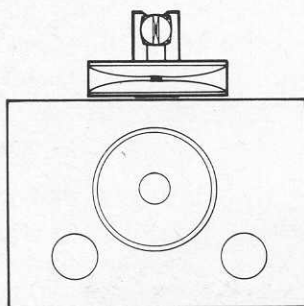


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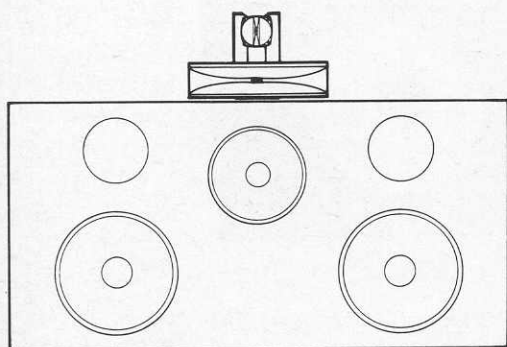
## LS/2 MONITOR

FREQUENCY RESPONSE: 45 Hz - 20 kHz  $\pm$  3 dB  
 MAXIMUM POWER: 65 W (Long Term Pink Noise)  
 NOMINAL IMPEDANCE: 8  $\Omega$   
 SENSITIVITY: 98 dB SPL @ 2.83 V, 1 M  
 ENCLOSURE TYPE: Vented, 'Time-Coherent'  
 DISPERSION: 140° Horizontal, 60° Vertical  
 MAXIMUM OUTPUT: 116 dB SPL @ 65 W  
 Crossover FREQUENCIES: 800 Hz, 7 kHz  
 ENCLOSURE VOLUME: 76 $\ell$   
 RECOMMENDED AMPLIFIER POWER: 10 W to 150 W  
 FINISH: Teak/Black  
 EXTERIOR DIMENSIONS: 650W x 737H x 508D (mm)  
 WEIGHT: 43 kg



## LS/3 MONITOR

FREQUENCY RESPONSE: 30 Hz - 20 kHz  $\pm$  3 dB  
 MAXIMUM POWER: 100 W (Long Term Pink Noise)  
 NOMINAL IMPEDANCE: 8  $\Omega$   
 SENSITIVITY: 100 dB SPL @ 2.83 V, 1 M  
 ENCLOSURE TYPE: Vented, 'Time-Coherent'  
 DISPERSION: 140° Horizontal, 60° Vertical  
 MAXIMUM OUTPUT: 119 dB SPL @ 100 W  
 Crossover FREQUENCIES: 800 Hz, 7 kHz  
 ENCLOSURE VOLUME: 250 $\ell$   
 RECOMMENDED AMPLIFIER POWER: 10 W to 225 W  
 FINISH: Teak/Black  
 EXTERIOR DIMENSIONS: 915W x 902H x 750D (mm)  
 WEIGHT: 80 kg



## LS/4 MONITOR

FREQUENCY RESPONSE: 19 Hz - 20 kHz  $\pm$  3 dB  
 MAXIMUM POWER: 150 W (Long Term Pink Noise)  
 NOMINAL IMPEDANCE: 4  $\Omega$  below 200 Hz; 8  $\Omega$  above 200 Hz  
 SENSITIVITY: 98 dB SPL @ 2.83 V, 1 M  
 ENCLOSURE TYPE: LF - Vented; MF - Infinite Baffle;  
 'Time Coherent'  
 DISPERSION: 140° Horizontal, 60° Vertical  
 MAXIMUM OUTPUT: 121 dB SPL @ 150 W  
 Crossover FREQUENCIES: 200 Hz, 800 Hz, 7 kHz  
 ENCLOSURE VOLUME: LF - 668 $\ell$  ; MF - 35 $\ell$   
 RECOMMENDED AMPLIFIER POWER: 10 W to 350 W  
 FINISH: Teak/Black  
 EXTERIOR DIMENSIONS: 1524W x 1012H x 965D (mm)  
 WEIGHT: 208 kg