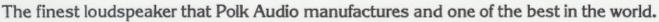
The Real-Time Array Reference Monitor System

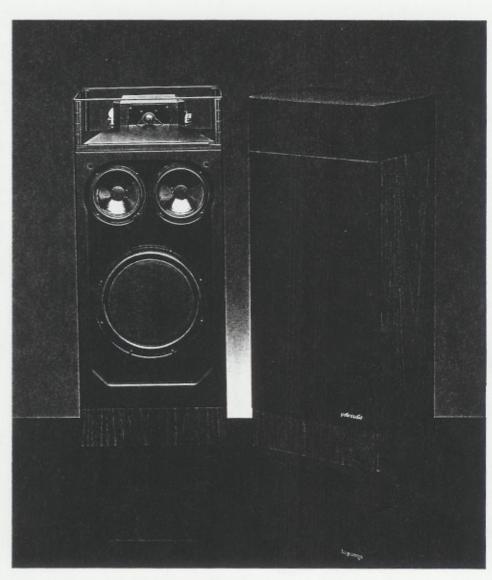
R.T.A. 12B





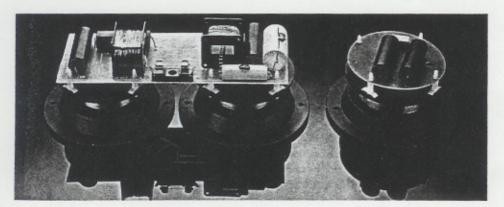
The Polk Audio R.T.A. 12B is the ultimate expression of the Polk design concept. It is a mirror imaged full size floorstanding system. When you listen to the R.T.A. 12B you will be transported even closer to the live musical performance. The 12B was designed with the aid of Polk Audio's newly developed digital samplingfast Fourier transform computer testing procedure. It utilized a pair of Polk MW 6600 tri-laminate polymer drivers crossed over to a Polk SL 1000 moving coil high frequency radiator and fluid coupled to a Polk SW 1200 planar subwoofer. An incredibly complex dual isophase crossover network is used. The cabinet is extremely rigid, well braced, and set up to allow phase aligned open air mounting of the high frequency radiator. In addition, a sophisticated anti-diffraction ramp is employed to eliminate any spurious high frequency reflections off the top of the cabinet. The sonic result is cleaner, clearer, more lifelike sound with greater power handling and dynamic range.

The Polk R.T.A. 12B
was honored by
its selection for the
International Consumer
Electronics Show —
Design and Engineering
Exhibition as one
of the most innovative
products of the year.



Real-Time Dual Isophase Crossover Network

Optimized in the time domain for greater transparency and realism.



The complex filter network used in the R.T.A. 12B is one of the finest used in any loudspeaker system, regardless of cost. It is actually two separate crossover networks used together to precisely blend the two 6600x drivers with the SL 1000 high frequency radiator. In addition to impedance balancing and frequency contouring the crossover rolls off the high end of one of the 6600x drivers before the other to achieve flatter frequency response and mirror imaging. It utilizes a unique fourth order (24db/octave) Gaussian magnitude

configuration which is optimized in the time domain. A computer was used to generate the basic component values but they have been listener optimized for the best sound in your room's "real world" environment. Signals are processed in real-time nearly perfectly with regard to trans-

ient information and phase coherency. Like the crossovers used in the other Polk Monitors, the R.T.A. 12B network makes extensive use of large low resistance copper coils, "buss-bar" printed circuit construction, high quality capacitors and precision resistors. Silver mica bypass capacitors are used in addition to low dissipation factor mylar capacitors for even better high frequency response. This ensures the highest sound quality as well as the long term integrity of the R.T.A. 12B's exemplary performance.

Unique Cabinet Design

Phase coherent open air driver mounting for superior sonic imaging.

The unusual cabinet configuration allows for the phase coherent openair mounting of the high frequency radiator. The design team found that by open air mounting the SL 1000, they could achieve better dispersion, a more open sound and further improvement in

the width, depth, height and accuracy of the sonic image. The elaborate "top hat" design and built-in anti-diffraction ramp properly integrates the SL 1000 into the system while minimizing diffraction and reflection problems.



Square Wave Response of R.T.A. 12B Proves Superb Phase Coherency

Nonresonant cabinet construction enhances performance.

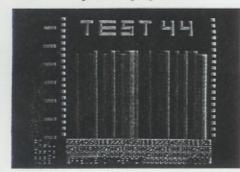
All Polk speaker cabinets are built out of special nonresonant high density particle board. For the R.T.A. 12B we have gone one step further. The cabinet is constructed utilizing a special laminate shear damping" technique.

This combined with the extensive internal bracing, ensures that the cabinet is acoustically inert and unable to produce any sound of its own. You hear only the clear, pure sound of the high quality Polk drivers.

CIDAC — Polk Audio's Quality Control Computer System

Your assurance of 100% total performance and satisfaction.

CIDAC Graphic Display Screen



Polk Audio's highly advanced CIDAC Quality Control Computer System makes certain that the performance of each and every Polk loudspeaker matches that of the laboratory prototype. At Polk Audio we insist on 100% total quality control. Our engineers know that designing superior loudspeaker systems isn't good enough. The quality of the design is meaningless unless there is a foolproof quality control procedure to as-

sure you that your loudspeakers will deliver their full performance potential. To achieve 100% total quality control our engineers designed one of the most advanced systems of its kind in the world, the CIDAC Q.C.C.S.

Unlike most loudspeaker manufacturers Polk Audio completely tests each and every loudspeaker it produces. In fact, Polk tests every subassembly component first before it is assembled into the final product. Over 40 different performance parameters are then tested on every loudspeaker produced. The CIDAC Computer System is used for many of the most critical tests to absolutely ensure that there is no margin for human error. You are assured of total satisfaction with your new Polk Audio loudspeaker system for many years to come.

A Polk Audio Quality Control Engineer Thoroughly Tests Every Polk Loudspeaker



Specifications

Driver Complement

Size (inches) Shipping Weight Frequency Response

Recom. Assoc. Amplification Crossover Frequency Impedance System Resonance Maximum Output Level Cabinet Finish

Warranty



Furniture Grade Rosewood Woodgrain



Furniture Grade Walnut Woodgrain Vinyl

Real Walnut Veneer

Authorized Dealer /

Mini Monitor II

One 1 inch moving coil high frequency radiator (fuse protected)

One 41/2 inch tri-laminate polymer bass-midrange driver

One 4 1/2 inch lowresonance sub-bass radiator 13 7/8H x 6W x 4 3/4D

23 pounds per pair 34 Hz-25,000 Hz 60 Hz-20,500 Hz +/-2dB 5-60 watts/channel 100 Hz and 3,000 Hz 6 ohms 38 Hz

100dB Furniture Grade Rosewood woodgrain vinyl

Limited two year parts

and labor (see detailed warranty statement)

Mounting brackets optional

Monitor 5

One I inch moving coil high frequency radiator

(fuse protected) One 61/2 inch tri-laminate polymer bass-midrange driver

One 8 inch fluid-coupled sub-woofer

21 1/2H x 10 1/2W x 8 1/2D 29 pounds 31 Hz-25,000 Hz 40 Hz-21,000 Hz +/-3dB 10-80 watts/channel 60 Hz and 3,000 Hz 8 ohms 36 Hz 103dB Furniture Grade Walnut or

Limited five year parts and labor (see detailed warranty statement)

Rosewood woodgrain vinyl

Monitor 7

One 1 inch moving coil high frequency radiator

(fuse protected) One 6 1/2 inch tri-laminate polymer bass-midrange

One 10 inch fluid-coupled sub-woofer

24H x 14W x 9 1/4D 36 pounds 26 Hz-25,000 Hz 33 Hz-20,500 Hz +/-2dB 10-125 watts/channel 60 Hz and 3,000 Hz 8 ohms 30 Hz 105dB

Furniture Grade Walnut or Rosewood woodgrain vinyl; or Real Walnut Veneer Limited five year parts and labor (see detailed warranty statement)

Monitor 10

One 1 inch moving coil high frequency radiator

(fuse protected) Two 6 1/2 inch tri-laminate polymer bass-midrange drivers

One 10 inch fluid-coupled sub-woofer

28H x 16W x 11 1/2D 50 pounds 22 Hz-25,000 Hz 30 Hz-20,500 Hz +/-2dB 10 - 200 watts/channel 60 Hz and 3,000 Hz 6 ohms 20 Hz 112dB Furniture Grade Walnut or Rosewood woodgrain

vinyl; or Real Walnut Veneer

Limited five years parts

and labor (see detailed

warranty statement)

Monitor 12B

One 1 inch moving coil high frequency radiator (fuse protected) Two 6 1/2 inch tri-laminate polymer bass-midrange drivers (6600x) One 12 inch planar fluidcoupled sub-woofer

39H x 16W x 11 7/8D

75 pounds 17 Hz-25,000 Hz 25Hz-21,500 Hz+/-2 dB 10-500 watts/channel 50 Hz and 2000 Hz 4 ohms 15Hz 120dB Furniture Grade Walnut or Rosewood woodgrain vinyl; or Real Walnut Veneer Limited five year parts and labor (see detailed

warranty statement)

Speaker stands are recommended, but optional.

Specifications subject to change without notice due to design refinements and/or improvements.









Manufactured in the U.S.A. by skilled American labor.

