

## Polk's Total Commitment to Quality

### "You Are There" Musical Quality

Polk loudspeakers excel in their ability to make your music come alive because we feel that the most important goal of loudspeaker performance is the ability to recreate the illusion and excitement of a live musical performance. When you listen to a pair of Polks, the loudspeakers disappear in a life-like, three-dimensional panorama of musicians performing in your room.

### World Class Technology

You will find award winning state-of-the-art technology and performance in every Polk speaker system. In addition to innumerable rave reviews, Polk speakers have been honored by winning the Hi Fi Grand Prix for the last two years and by selection for the prestigious CES Design and Engineering Exhibition for the last six years in a row. What is the secret? Polk builds each and every loudspeaker with the same world class standards of construction quality and dedication to performance accuracy.



Some examples of Polk components and technology are: 1) The Polk Trilaminare Polymer Bass Midrange Drivers which utilize three layer cone construction for life-like clarity and detail. 2) The Polk Moving Coil Polymer Dome Radiator which utilizes an extremely light and well damped diaphragm for open, clear, silky smooth high frequency response. 3) The Polk Isophase Crossover Systems which maintain optimum phase relationships to properly blend the sound of the individual drivers together into the homogeneous sounds of individual instruments and voices. 4) The Polk Fluid Coupled Subwoofers which combine the performance advantages of small woofers and large woofers to achieve tight, quick, deep, powerful and room filling bass.

### Your Assurance of Satisfaction

The real key in manufacturing a high technology product like a Polk loudspeaker is dedication to uncompromised quality in all aspects of design and construction. Meticulous workmanship, the use of the highest quality components and effective comprehensive quality control are all necessary to make certain that every pair of Polk loudspeakers deliver all the musical pleasure they were designed to do.

### Unexcelled Value

There is one aspect of Polk products which is almost totally unique among high technology state-of-the-art loudspeaker systems, and that is the concept of value. In addition to superior performance and technology Polk loudspeakers also offer more uncompromised performance per dollar than any other speakers on the market. If you're looking for life-like musical quality, world class technology and unexcelled value Polk loudspeakers are your obvious choice.

## The Polk Audio Monitor Series Loudspeakers

### Incredible Sound/Affordable Price

Polk Audio has established its worldwide reputation for excellence by building the best sounding loudspeakers for the money available on the market. The Polk Monitor Series consists of six basic models; each of which offers construction and performance quality unique and unequalled in their price range. These six loudspeakers, though moderate in price, offer state-of-the-art performance and technology usually found only in systems which sell for many times their modest cost. In fact, the consistently fine performance and value of the Polk Monitors is in large part due to the fact that they all utilize very similar components and design features. However, more importantly, it is the elegant integration of concepts and components which results in the superior sonic performance and value which sets the Monitor Series apart.

### High Definition Reproduction

Polk loudspeakers are true high definition systems which reproduce sonic images with life-like clarity and detail, much like a high resolution camera captures a visual image with all the subtle detail and focus intact. When you listen to a pair of Polks, notice how you can hear each and every individual instrument clearly and distinctly, even when there are many instruments playing at the same time.

### Life-Like Spatial Imaging

The Polk Monitors excel in every area of performance, but their extraordinary spatial imaging capability is especially unique. In fact, outside of the Polk SDA's, many knowledgeable listeners consider the Polk Monitors to be the finest imaging loudspeakers in the world, regardless of price. Imaging is quite simply the ability of loudspeakers to project true three-dimensional placement of the musicians and instruments into your room. When you listen to a pair of Polk Monitors, close your eyes and listen for the spread of sound between, behind and beyond the loudspeakers. It's like the musicians are right there in your room.

### One Standard of High Performance

All the Polk Monitors offer consistently superb sonic characteristics and performance because of their similar components and technology. As you move up in the line from the Monitor 4 the speakers get larger, more efficient, play louder and have greater and deeper bass response. The RTA 12C also offers other significant improvements in imaging and clarity.

*"the kind of open, uncolored, perfectly imaged sound we thought began at twice the price."*

*Musician Magazine*

**The RTA 12C** — The RTA 12C is the finest conventional (non-SDA) speaker system that Polk manufactures. It is a mirror imaged, full size floorstanding system utilizing phase coherent open air driver mounting for superior sonic imaging and clarity. In addition to the many rave reviews, the RTA 12 has won the Hi Fi Grand Prix award and has also been selected for the prestigious CES Design and Engineering Exhibition as one of the industry's most innovative products! \$460

**The Monitor 10B** — The Monitor 10B offers performance almost equal to the 12 in a more compact enclosure. Like the 12, the 10 utilizes two Polk trilaminare bass midrange drivers coupled to a 10 inch (rather than 12 inch) fluid coupled subwoofer for outstanding bass response and dynamic range. \$325

**The Monitor 7** — The Monitor 7 is basically a less expensive, smaller version of the Monitor 10, utilizing the same 10" subwoofer with one less bass midrange driver. It can be floor or shelf mounted. \$240

**The Monitor 5** — The Monitor 5 is very similar in design and performance to the Monitor 7, however it utilizes an 8" subwoofer rather than a 10". Additionally its more compact size allows more placement options. \$180

**The Monitor 4** — The Monitor 4 is a room filling compact system that can be used either by itself, or combined with the LF 14 as a three-piece subwoofer satellite system. Even though the Monitor 4 is the least expensive Polk Monitor, one look and a quick listen will demonstrate that it shares both the high technology components and performance of the more expensive Polks. \$110

**The LF 14** — The LF 14 is a complete add-on low frequency stereo subwoofer system which may be used in conjunction with any of the other Polks (or most other speakers) for even more bass response. It is most often used with a pair of Monitor 4's in a three-piece satellite subwoofer arrangement. This 4/14 system is the perfect choice for those listeners who want the full, room-filling bass of the larger Polks yet don't have the space in their listening rooms to optimally locate large speakers for ideal imaging, depth and stereo separation. \$350



*"The best high performance speaker value on the market today." Off the Record*

## The Polk Stereo/Dimensional Array Series TM Patent Pending

*"Polk 'reinvents' the loudspeaker"*  
*High Fidelity*

### A Revolutionary New Technology Achieves Dramatically Better Sound

Polk SDA Series loudspeakers are a totally new type of loudspeaker system incorporating an extremely significant and audibly beneficial design breakthrough unavailable in any other speaker. The SDAs are one step beyond the world famous Polk Monitor Series. The performance of the Polk Monitors are considered by many knowledgeable listeners to equal and surpass that of the finest conventional speakers in the world (selling for 2, 3, 4 times as much or more). Their imaging is extraordinary. Where could we go from there? We developed something even better, or course! We took a step beyond the state-of-the-art by developing the revolutionary Stereo/Dimensional technology which results in dramatically improved three dimensional imaging, depth and spatial fidelity. SDA-1, the first Stereo/Dimensional loudspeaker, received unprecedented rave

reviews and many prestigious awards including the Hi Fi Grand Prix-Product of the Year. Now the dramatically audible benefits of SDA technology are also available to you in a more compact, substantially less expensive but similarly revolutionary sounding loudspeaker, the SDA-2.

### The Stereo/Dimensional Breakthrough

It could be said that the Polk SDA's are the first true stereo loudspeakers, as opposed to being two basically monaural speakers hooked up to a stereo sound source. (Note that there is actually a cable connecting the left and right speakers). Hi fi went from mono to stereo about twenty-five years ago, but until the SDA's no one had ever really redesigned the basic monaural speaker to eliminate the fundamental problem of Interaural Crosstalk Distortion (ICD) which occurs when you use a pair of mono speakers for stereo reproduction. There have been many audibly significant loudspeaker developments over the past twenty-five years relating to driver design, cross-overs, diffraction, radiation patterns,



## The Polk Stereo/Dimensional Array Series™ (cont.)

etc...(many made by Polk) but none addressed to realizing the tremendous performance benefits possible when the very serious and basic problems associated with ICD are eliminated.

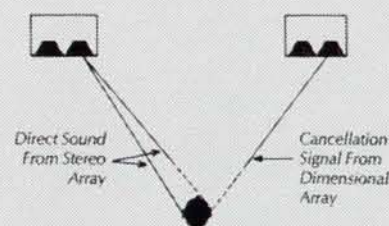
*"A new dimension in the sound."*

*Stereo Review*

### SDA Technology Eliminates Interaural Crosstalk Distortion

ICD is a form of acoustic distortion which literally confuses your hearing mechanism. It has a masking effect which prevents you from experiencing the full dimensionality, depth, imaging and spatial fidelity present in your stereo recordings. ICD occurs with conventional speakers because each ear hears both speakers. ICD is eliminated and the sound is dramatically improved if each ear hears only one speaker, not both (which is what occurs when you listen to headphones and the SDA's). Did you ever wonder why headphones sound as good as they do? Now you know, there's no interaural crosstalk distortion!

#### Cancellation of Interaural Crosstalk Distortion



Cancellation of interaural crosstalk is achieved by means of a second array of drivers, called the dimensional array, mounted to the outer side of each speaker cabinet's front baffle, slightly more than the width of a human head away from the regular stereo array. In the example shown here, a signal emerges from the left speaker's stereo array, arriving first at the left ear and slightly later, because of the additional distance traveled, at the right ear (where it constitutes interaural crosstalk). Simultaneously, a signal comprising a standard right channel component and an out-of-phase left-channel component emerges from the right dimensional array. The placement of the right dimensional array causes the path length from it to the right ear to be almost the same as that from the left stereo array to the right ear. Consequently, the in-phase component from the left stereo array and the out-of-phase component from the right dimensional array arrive at the right ear at the same time and cancel each other, thereby eliminating the left-channel interaural crosstalk.

Reprinted from High Fidelity Magazine Jan. 1983.



*The Polk SDA's are revolutionary new loudspeakers engineered so that each ear hears only one speaker (like headphones), resulting in dramatically improved, more life-like, three-dimensional imaging.*

### Speakers with the Sonic Advantages of Headphones

Basically, SDA technology combines the sonic advantages of headphones and loudspeakers. The SDA's are designed so that each ear basically hears only one speaker (like headphones), thus eliminating ICD. This is achieved by cancelling out the unwanted sound going from each speaker to the wrong ear (the ICD) by a special, separate signal coming from the opposite speaker. To accomplish this, each speaker has two completely separate sets of drivers, called the stereo drivers and the dimensional drivers. The stereo drivers radiate the normal stereo signal which you hear, and the dimensional drivers radiate a non-processed difference signal which effectively cancels the unwanted ICD so that each ear basically hears only one speaker. In addition, this special dimensional signal further focuses and stabilizes the greatly expanded three dimensional image. All this is accomplished very effectively and elegantly with absolutely no signal processing, added circuitry, noise or distortion.

*"Mind boggling, astounding, flabbergasting..."*

*High Fidelity*

### The Audible Benefits

The sonic benefits of Stereo/Dimensional Technology are easily heard and extraordinary. The sound takes on a whole new dimension. True three dimensional sonic images are spatially projected and recreated in your room to a degree not possible with conventional speaker technology. The perceived sound stage expands beyond the speakers and often beyond the walls of the listening room itself. You will find yourself transported to the acoustic environment of the original musical event. Information which is masked by conventional loudspeakers, but nevertheless actually present is revealed for your enjoyment. You will hear instruments and subtle musical nuances you never realized existed. Each instrument, vocalist or sound becomes distinct, tangible and firmly placed in its own position in space. The improvement over conventional loudspeaker performance is dramatic. You will find great pleasure rediscovering your record collection and the previously hidden joys contained therein. Simply put, the SDAs will allow you to fully experience in your own home the tremendous power, excitement, majesty and pleasure of live music. The SDAs are one step beyond the state-of-the-art.

SDA-1: \$850 SDA-2: \$600

## is Proud to Represent Polk Audio Loudspeakers

### Let Us Show You Why...



### The Polk Philosophy: Technology Serving Music

Polk Audio's design goals were all selected to achieve better sound in your home and give you the greatest listening pleasure and long term satisfaction from your music, your records and your hi fi system.

• **Open, life-like, three-dimensional imaging**  
recreates the illusion of musicians actually playing in your room, with height, depth and placement across the sound stage.

• **Smooth, accurate frequency response**  
across the entire audible range provides you with natural, non-fatiguing, easy-to-listen-to sound.

• **Ultra wide sonic dispersion**  
ensures that you will receive optimal sound through your listening room.

• **Optimal performance in your room.**  
Polk speakers are easy to position and are designed to provide superior performance in your listening room.

• **High efficiency and power handling.**  
Your Polk loudspeakers can be used with virtually any amplifier or receiver, large or small. They will play very loudly if desired, but also sound exceptionally clear at low volume levels.

• **Dynamic bass performance.**  
Your speakers will rattle the windows when a kick drum or low organ pedal calls for it, but will also reproduce all the subtle delicacy of plucked or bowed string bass or cello.

• **Instantaneous transient response**  
means your music will be crisply reproduced with life-like clarity and detail.

• **Unit to unit consistency and long-term sonic integrity.**  
Total 100% quality control means your Polk speakers will sound as good as the laboratory prototypes and will continue to do so for many years to come.