Quality starts with design...

Pinnacle loudspeakers are immensely gratifying instruments of musical reproduction. They convey a sense of assurance that all music can be better defined, better appreciated than you thought possible. Complex passages are faithfully interpreted with authority. A transparent air surrounds gentle compositions through which the most delicate of details are revealed. Pinnacle speakers excel because of our no compromise approach to quality of sound. Each model is a uniquely innovative blend of form and function. The caliber of our parts is matched only by the expertise with which we combine them. When you enjoy your music through Pinnacle loudspeakers, you will hear everything.

Brains

Pinnacle's crossover networks, the “brains” inside the box reflect our commitment to using only the best possible materials and technologies, and using them wisely. Our concerns with phase coherent circuitry, resonance compensation, and impedance control all contribute to the exceptional performance of our products. For low frequency contouring we procure heavy gauge inductors, precision wound on air or massive ferrite cores. This eliminates any possibility of saturation and ensures negligible insertion loss and consequently better damping of bass frequencies with zero impedance shift. Therefore, bass is gripping and definitive. For superior tweeter function, our capacitors are premium grade, constructed of metallised polyester film and polypropylene dielectrics. These choice materials guarantee precise tolerance and exceptionally low dissipation. Cymbals shimmer with transcendent brilliance, and the concert comes home to you.

PN2+

The diminutive size of our model PN2+ yields superior caliber performance. Patented Diaduct™ rear panel bass loading enables the PN2+ to achieve remarkable low frequency reproduction. The specially customized 4” low resonance woofer is paired with a 1/2” liquid cooled dome tweeter capable of creating an exceptionally wide polar dispersion pattern for brilliant high frequency production. The PN2+ is perfect for the audio enthusiast on a budget or for tight spaces. They also make excellent rear channel speakers for surround sound systems. Compact size, compact price, full bodied performance.

PN5+

The PN5+ is capable of delivering potent low frequency reproduction while maintaining a balanced musical sound throughout its entire range, all within an enclosure 1/6 of a cubic foot! By carefully combining our specially developed 5½” bass-midrange polypropylene cone driver with our ultra low mass, 3/4” polycarbonate dome, formerless fluid filled tweeter, we have realized the full potential of the ultra compact format. The secret of the PN5+’s great bass is our patented elliptical Diaduct™ port tube, strategically positioned on the rear of the cabinet. The PN5+ is recognized throughout the industry as having no equal in its price range. (See section on product reviews.) Experience the pleasure of a full bodied musical experience from the magic of a small box.
The vented loudspeaker re-invented...

The Best Compact Loudspeakers
Pinnacle is highly dedicated to creating affordable speakers of astonishing depth and clarity from boxes of very compact size. This commitment means having to explore new ways of coaxing more sound out of less space. The result of our efforts is Diaduct™, our patented diagonal ducted port system. Finally, a breakthrough. Our patent confirms it. Pinnacle has the better speaker system. You enjoy the results.

Patented Diaduct™
For the past 30 years speaker manufacturers have been impeded by primarily working with the inherent limitations of the standard vented (baoo reflex) and acoustic suspension designs. Finally there is a breakthrough. Rich Rothenberg, President and Chief Engineer of Pinnacle Speakers, has developed a revolutionary new venting technique. The Diaduct™ (Diagonal Duct) vent is a practical method of overcoming the major dilemma facing designers of compact speakers: How to achieve ducted port dimensions ample enough to yield convincing bass performance.

The Concept
Deep bass response requires a wide port opening for adequate air flow through the duct tube. This premise is similar to having many lanes on a highway to allow passage of more cars. However, to increase port width, the length of its duct tube must also be increased to maintain proper box tuning ratios.

PN6+
Compact and rugged, the PN6+ relies on our custom designed 6½" polypropylene cone woofer and 1½" magnetic fluid filled dome tweeter, to reproduce all music with authority and detail. Easily outperforming many larger and more costly speakers, the PN6+ presents a practical solution to a common dilemma: How to attain full spectrum sound reproduction from limited space and at a minimal expense. The exceptional capabilities of the drive units are bolstered by our patented bass enhancing Diaduct™ enclosure. A precision, phase coherent crossover blends the drivers smoothly to ensure crisp, wide angle response. With the PN6+ you can now enjoy a wider range of musical reproduction than you thought possible from such a compact speaker.

PN 50
The model PN 50 sets a new standard for versatility and value in compact loudspeakers. It is a superb full range reproduction, excellent for use as the main speakers in a system where shelf space is limited. The PN 50 is magnetically shielded so it can be placed horizontally atop a TV monitor for use as a premium quality center channel speaker in multi-way audio/video systems. When placed the PN 50 becomes a mini tower requiring minimal shelf space. It can also be situated right next to the TV monitor if desired. Spaced further apart, the PN 50 delivers outstanding stereo imaging and sound staging. This is made possible by way of our new aluminum dome plastic disd tweeter. The slightly contoured front plate maximizes dispersion for wide angle sound without beaming. To complement the PN 6+ a lineup of matching accessories were developed a magnetically shielded version of the 5½" woofer used in our famous Model PN6+. It is known especially for its almost uncanny low frequency output from a sub-compact enclosure. Together, with our patented Diaduct venting system for maximum bass and a precision crossover network for optimum response, the PN 50 universal produce unparalleled sounds for a most modest price.

The Old Problem
A small cabinet or balanced proportions doesn't have a front to back dimension sufficient to accommodate a long duct tube. Typically, compact speakers could only use narrow port openings with short duct tubes, and suffered from deficient bass. Until now.

The New Solution
The Diaduct™ port tube follows a long diagonal path inside the cabinet. This technique enables the tube to achieve length enough to accommodate a wide port opening without suffering the air flow problems inherent to curved or bent tubes. To further facilitate transfer of bass energy both into and out of the tube, both ends feature an elliptical mouth opening. The result is unprecedented, powerful, deep bass from a compact enclosure. Our patented Diaduct™ system produces the bass of a larger speaker... without the larger speaker.

The Diaduct™ is patented in the United States as U.S. Patent #4785908, and patent protection is pending elsewhere.

THE DIADUCT™ EXTRA WIDE PORT OPENING PROVIDES FOR INCREASED BASS OUTPUT
Better by design...

The superior bass delivery of Pinnacle's patented Diaduct™ enclosures is complemented by the highest caliber drivers and crossovers. Every part is selected with precise mathematical consideration to all other parts and the ultimate design goals. Pinnacle chooses only those components which represent the frontier of acoustic technology. Only then can we present Pinnacle to you with our utmost confidence. Only then can we be assured that Pinnacle is best in its class. After all, every Pinnacle speaker is backed by our exclusive 7 year limited warranty and has been since 1976.

Better Bass
Pinnacle woofers are especially designed from the ground up. Mineral filled polypropylene cones are employed to ensure high stiffness to mass ratio. Pressurized into optimal geometric tapers for their particular functions, our cone bodies feature superior acceleration and stress resistance. So you always experience accurate, gripping bass reproduction. Attack of bass drums is quick and our powerful motor structures ensure maximum cone control thus minimizing "hangover" distortion. When coupled to our patented Diaduct™ enclosures, Pinnacle woofers produce unsurpassed bass.

Better Highs
We knew our Diaduct™ breakthrough required us to address midrange and treble reproduction with equal fervor. Our high powered magnetic liquid cooled tweeters readily combine with specially developed crossover that maximize midrange output. With Pinnacle speakers you will experience such convincing vocal performances that the artists seem to be present in your listening room. For example, the high frequency driver in our PN8+ model boasts a tuned double internal cavity to lower fundamental resonance and extend response an octave below conventional 25mm dome units. Since the ample excursion of the high loss polyamide diaphragm can easily accommodate a full bodied vocal thrust, we employ special braided voice coil leads for superior strain relief. The result is unprecedented high power handling to compliment the most natural and authoritative midrange reproduction. This kind of attention to detail is what enables Pinnacle high frequency performance to surpass all expectations.

PN 60
Model PN 60 is the perfect choice for the music lover constrained by both limited space and budget. Powerful and efficient, the PN 60 is a natural sounding, musical speaker. Its many strengths include a newly developed 6½" woofer. It features a narrow rubber surround to maximize the cone's radiating surface for extra output. This carefully damped surround and specially treated cone suppress spurious resonances for outstanding clarity. Dual patented Diaduct bass ports maximize the bass capabilities of the system. We matched our new aluminum parabolic dome tweeter to the woofer with a phase coherent second order network. This enables the use of a low 2 KHz crossover which provides for superior imaging at all frequencies. With the PN 60 you enjoy unexpectedly high performance at a most modest cost.
Back to bass-ics™

PN SUB+

For people who appreciate an extra measure of deep bass, the PN SUB+ is the perfect complement to a pair of fine minispeakers such as our PN2+ and PN5+ models. The PN SUB+ adds a rock solid bottom end to music to create a three-piece speaker system of incredible depth and power. Since bass frequencies are non-directional, the PN SUB+ can be conveniently situated anywhere in the listening room with great results.

Patented Diaduct Port Design

The PN SUB+ features our exclusive patented Diaduct™ (Diagonal Duct) port tuning system for great bass (see section on the vented loudspeaker re-invented). In a compact enclosure of sensible proportions our Diaduct™ tuning system enables the PN SUB+ to accommodate sufficiently wide bass ports that can be discreetly concealed on the bottom of the cabinet. This strategic bass loading technique further maximizes efficiency by utilizing the floor as an acoustic springboard to augment coupling to the woofers. What you experience is great bass that exceeds your expectations.

The PN SUB+ Crossover

We developed a very special crossover network constructed of premium grade high and low pass filters. Our choice of first order slopes ensures the smoothest possible transition to the satellites with outstanding phase characteristics. You experience a lifelike, spacious soundfield, rich with impact and definition. The low 120 Hz crossover point provides a kind of electrical strain relief by permitting each driver to reproduce only those parts of the frequency spectrum that it does best. The result is reduced midrange distortion and markedly improved power handling for both the PN SUB+ module and its satellites.

Convenient Satellite Level Switch

The PN SUB+ comes equipped with a special heavy duty satellite level switch. You can set the satellites for normal or reduced volume level by simply depressing a rocker switch conveniently located on the PN SUB+’s terminal plate. Reducing the satellites' level makes the bass subjectively louder (about 3dB) for extra bass enhancement. This feature provides great flexibility for matching the PN SUB+ to satellites of differing efficiency levels. Also, it enables equalization for bass heavy or bass shy recordings.

True Stereo Subwoofer

The PN SUB+ is a true stereo subwoofer since two separate ultra heavy duty 6½" woofers are employed. This approximates the bass radiating power of a 10" woofer. Digitally processed recordings often feature distinctly different bass information on each channel. Separate woofers help reveal more subtleties and ambience with less distortion because each cone is being required to reproduce only half the bass information.
Unsurpassed value...

**Stereo Review**

"At lower levels the sound character of the PN5+ system was amazingly close to that of our reference speakers which cost nearly twenty times as much... Quite remarkable...!"

Julian Hirsch, January 1988

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**The New York Times**

"Pinnacle Loudspeakers has achieved wonders with its patented version of a bass reflex enclosure."

Hans Fantel, October 21, 1990

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**HIGH FIDELITY**

"...the PN6+ is a must hear model for your audition list."

Robert Lang, November 1989

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**stereophile**

"The larger PN8+ ($400/pair) was shockingly good for the money..."

Peter Mitchell, April 1990

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**Inc.**

"Good speakers for less than $200 are hard to find. The Pinnacle PN5+... boasts true high fidelity sound in small cabinets."

Cary Lu, September 1990

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**Stereo Review**

"Hear the PN8+...especially if you are looking for an exceptional value in a speaker."

Julian Hirsch, July 1990
Patented compact loudspeakers...

Pinnacle engineering maintains a continuing product research and development program which may lead to the introduction of new materials, design refinements and other similar expressions of our continuous product improvement philosophy. Therefore, any current Pinnacle product may be slightly different from its published description but will always meet or exceed the original design criteria unless otherwise stated. Pinnacle Loudspeakers carry a 7 year transferrable parts and labor limited warranty.

Pinnacle speakers are designed and manufactured in the U.S.A.

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>PN2+</th>
<th>PN5+</th>
<th>PN6+</th>
<th>PN50</th>
<th>PN60</th>
<th>PN70</th>
<th>PN8+</th>
<th>PN SUB+</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Type:</td>
<td>4th Order Rear</td>
<td>4th Order Rear</td>
<td>4th Order Rear</td>
<td>4th Order Vented with</td>
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<td>Vented with</td>
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<td>Patented Diact Port Tuning</td>
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<td>Patented Diact Port Tuning</td>
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<td>Component Drivers:</td>
<td>4” Cone Woofer</td>
<td>5/” Mineral Filled Polypropylene Cone Woofer</td>
<td>6/” Mineral Filled Polypropylene Cone Woofer</td>
<td>6/” Mineral Filled Polypropylene Cone Woofer</td>
<td>6/” treated cellulose fiber cone w/rubber surrounds +</td>
<td>6/” treated cellulose fiber cone w/rubber surrounds +</td>
<td>8/” Mineral Filled Polypropylene Cone Woofer</td>
<td>6/” Subwoofer</td>
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<td></td>
<td>1/” Poly carbonate</td>
<td>1/” Poly carbonate</td>
<td>1/” Poly carbonate</td>
<td>1/” Magnetic Oil</td>
<td>1/” Metal diaphragm dome tweeter w/ferrofluid cooling &amp; parabolic dish faceplate for optimum imaging</td>
<td>1/” Metal diaphragm dome tweeter w/ferrofluid cooling &amp; parabolic dish faceplate for optimum imaging</td>
<td>1/” Magnetic Oil</td>
<td>1/” Poly carbonate</td>
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<td>Crossover Frequency:</td>
<td>5 kHz</td>
<td>5 kHz</td>
<td>4.5 kHz</td>
<td>2.5 kHz</td>
<td>2.5 kHz</td>
<td>1.4 kHz (low) / 7 kHz (high)</td>
<td>2.2 kHz</td>
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<td>Overall Response:</td>
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<td>50-21 kHz</td>
<td>40-21 kHz</td>
<td>45-21 kHz</td>
<td>40-21 kHz</td>
<td>38-21 kHz</td>
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<td>36-150 KHz</td>
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<td>Recommended Amplifier Power:</td>
<td>5-100 Watts RMS / 10-100 Watts RMS</td>
<td>10-100 Watts RMS / 10-125 Watts RMS</td>
<td>10-100 Watts RMS / 10-125 Watts RMS</td>
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<td>10-200 Watts RMS / 20-250 Watts RMS</td>
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<td>Impedance:</td>
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<td>6 Ohms</td>
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<td>8 Ohms</td>
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<td>6 Ohms</td>
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<td>SPL (At 1 Watt, 1 KHz, 1 Meter):</td>
<td>86 db</td>
<td>86 db</td>
<td>88 db</td>
<td>87 db</td>
<td>91 db</td>
<td>93 db</td>
<td>92 db</td>
<td>88 db</td>
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<tr>
<td>Dimensions [with grille]:</td>
<td>9” x 61/2” x 61/2”</td>
<td>11” x 61/2” x 61/2”</td>
<td>14” x 91/2” x 91/2”</td>
<td>14” x 71/2” x 71/2”</td>
<td>17” x 10” x 91/2”</td>
<td>19” x 10” x 91/2”</td>
<td>19” x 11” x 11”</td>
<td>13” x 19” x 11” (includes 2 feet)</td>
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<td>14 lbs. (per pair)</td>
<td>16 lbs. (per pair)</td>
<td>25 lbs. (per pair)</td>
<td>9 lbs. (each)</td>
<td>34 lbs. (per pair)</td>
<td>36 lbs. (per pair)</td>
<td>30 lbs. (each)</td>
<td>30 lbs. (each)</td>
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