



Retail Pocket Guide

*Imaging Module Series
Servo Subwoofer Series*

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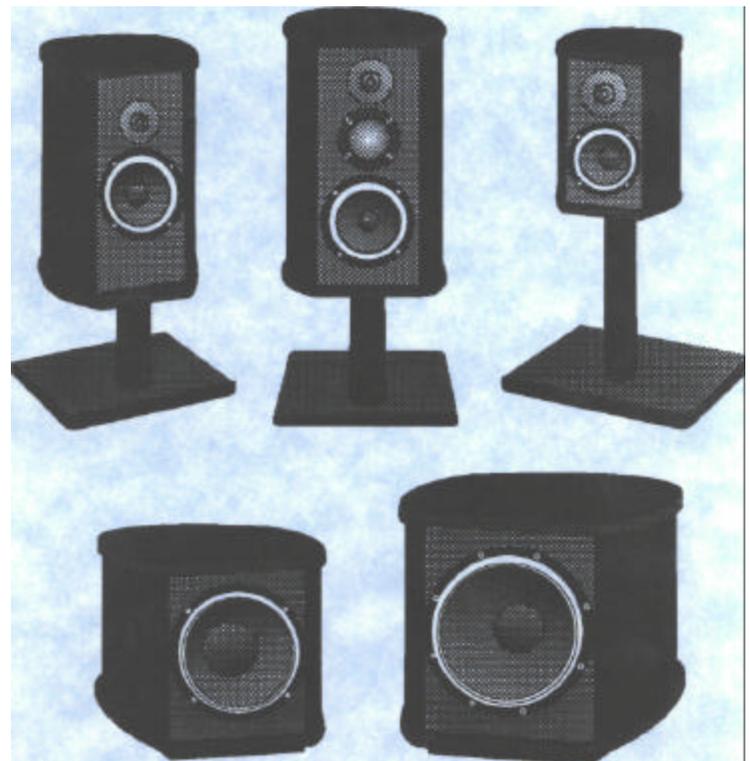




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The genesis of Genesis

Arnie Nudell, twenty year veteran and founder of Infinity Systems has always been considered a visionary in the field of high-end loudspeaker design. The Infinity products he engineered were always on the leading edge of technology, and were regarded by prominent audio reviewers to be the best loudspeakers in the world.

Arnie continues in his quest to perfect the technology of sound reproduction, bringing forth the next evolutionary step in loudspeaker design under the Genesis banner.

Paul McGowan, eighteen year veteran and founder of PS Audio is responsible for some of the most innovative and intelligent designs to arrive on the audio electronics scene. Paul now brings to Genesis his engineering and management expertise, as well as his love of music.

Music is what Genesis Technologies is all about. It was their love of music that drove Arnie and Paul to create the transparent transducers which are their respective trademarks. Listening to music is an essential part of their daily regimen.

Each of the final tuning adjustments are decided after hours of extensive listening. Although computers are used to verify the linearity and time domain of Genesis products, only by listening can immeasurable subjective qualities be taken into account in designing a holographic audio experience.

Genesis is the next evolutionary step in loudspeaker design for the 90's. A novel enclosure configuration, exotic space age driver materials, and innovative crossover designs contribute to the majestic sound of "large box" speakers in a small footprint package.

State of the art speaker technology at an affordable price. By applying advanced design and manufacturing techniques, Genesis makes high-end performance refreshingly affordable.

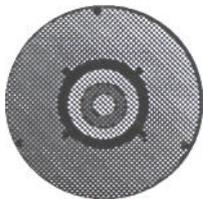
Imaging Module Series

General Features

Full Range Loudspeakers

Each of the Imaging Modules, the 8300, 8200, and 5200 are complete, full range speakers. Because of their relatively small enclosure sizes, they are also ideal for use with a Subwoofer. They act as full range loudspeakers, but are engineered as a perfect match to either of the two Genesis Subwoofers.

1" Circular Planar Ribbon Tweeter.



- Proprietary design features. This circular planar ribbon tweeter design is found in Genesis Imaging Modules and nowhere else in the world.

Incredibly lightweight membrane

(.0005" thin)

which is actually lower in mass than the air in front of it, creating the distinctive open sound of the Imaging modules.

Transient response.

The ultra-lightweight planar membrane yields exceptional transient response, which creates an unprecedented degree of inner detail and clarity.

Even dispersion

The circular ribbon evenly disperses sound over the entire front hemisphere-- horizontally, vertically, and all points in between. The result is a holographic image, complete with appropriate height cues and full outside imaging.

Planar construction

This design eliminates high frequency resonant peaks associated with most dome tweeter designs. Thus you hear a clear, open high end which is easy to listen to .

internally protected

The Genesis circular planar ribbon tweeter can handle enormous amounts of power, and is protected by two completely independent systems, making it almost impossible to damage.

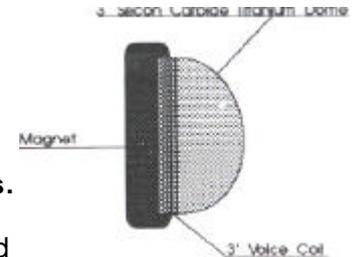
Level control

Genesis tweeters are user adjustable, which allows the Imaging Modules to sonically blend into any room. *This is a feature found on only the most finely engineered speaker products.*

3" Midrange

- Proprietary design features.

This midrange design is found in Genesis Imaging Modules and nowhere else in the world.



- 3" titanium/silicon carbide Dome

Unique in the industry, this amazingly rigid amalgam is one of the lightest and stiffest materials known to science. This materials design is engineered to eliminate breakup modes through the entire middle frequency range.

- 3" voice coil

Small voice coils are typical of domes this size. Not so with Genesis products. A full 3" voice coil means more uniform force is applied to the entire dome.

This translates into a more even dispersion of sound, and an increase in its power handling abilities, while retaining its coherent musical quality.

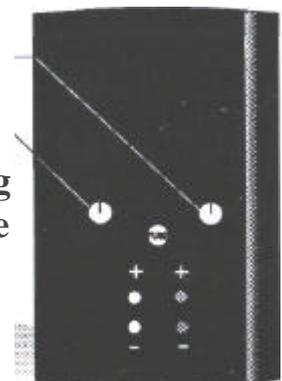
- Level control

Genesis midranges are user adjustable, which allows the Imaging Modules to sonically blend into any room. *This is a feature found on only the most finely engineered speaker products.*

Midrange Level Control

Tweeter Level Control

Back of Imaging Module



The Woofers



- Proprietary design features.

This woofer design is found in Genesis Imaging Modules and Subwoofers, and nowhere else in the world.

- Injection molded

Kevlar in a base of polypropylene

This design optimizes the qualities of each compound, combining the light weight and high tensile strength of Kevlar with the sound damping properties of polypropylene. An extraordinarily musical mid-bass response is the result of this composition of materials.

- Quick and **accurate** response to transients without added coloration or distortion are some of the defining characteristics of this diaphragm which produces quick and life-like bass.
- **5" and 8" woofers**
Genesis woofers create a bass response which is deep and powerful, but not boomy, resulting in bass which is true to the music..

The Crossover

- Proprietary design features.

This crossover design is found in Genesis Imaging Modules and nowhere else in the world.

- Computer-tested design

The Genesis crossover is computer tested to conform to our standards, but the final test is the subjective listening test. Only when all frequency ranges objectively *and* subjectively blend is the design task complete.

- Proprietary capacitor

Developed with Rel-Cap Inc., this polypropylene capacitor is used in the tweeter circuit of all Genesis Imaging Modules.

It delivers greater clarity in the higher frequency ranges than off-the-shelf film capacitors.



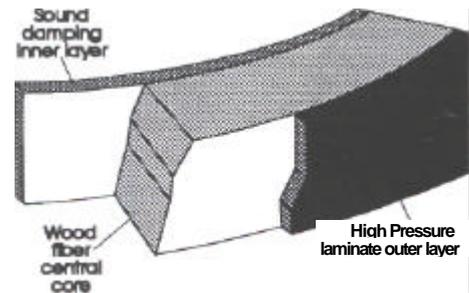
- LC tuning (Anti-resonance Circuit)

All Imaging Modules are equipped with an anti-resonance circuit made up of a sophisticated network of inductors and capacitors. This unique circuit not only cancels the speaker enclosure resonance normally associated with all sealed and ported designs, but also is engineered to extend bass response by nearly half an octave.

- Bass Extension (Fuse)

All Imaging Modules are equipped with a bass extension fuse. With the fuse in, you get a little more bass extension and 2.8 ohms of impedance at some frequencies. With the fuse out, you get very good bass extension and an assurance of a constant impedance of 4 ohms. Remove the fuse when using with Genesis Subwoofers for optimum crossover.

The Enclosure



Cylindrical enclosure This design takes advantage of the strongest known shape to ensure that it is immune to back pressure flexing. So strong is this structure that it is *actually superior to a 4" thick concrete rectangular enclosure of similar dimensions*. Thus, Genesis has created a virtually inert framework without typical "boxy" colorations,

Three layer construction

Made up of a central wood fiber core sandwiched between an inner damping layer and an outer high pressure laminate, these materials have resonant characteristics which offset one another for an extremely stiff, exceptionally strong combination which is virtually inert to vibration and resonances.

High gloss piano black finish

This piano black finish is a powerful, easy to clean protectant, and makes Genesis speakers beautiful pieces of furniture.

"The Foundation" Pedestal **Base**

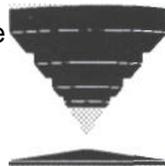
The Foundation series of pedestals are specifically designed to acoustically ground the Imaging Modules and provide the recommended angle of tilt (approximately 10 degrees).

- 3/4" thick black Italian granite base
This beautiful base furnishes a rock solid underpinning for the pedestal.
- Black sand filled steel column
Designed to acoustically ground the surface plate to the granite base for optimum isolation of the Imaging Modules.
- 10 degree tilt back
The black steel surface plate is tilted back ten degrees to temporarily align the Imaging Modules.



Custom cones

These stable underpinnings have the smallest possible area of contact with the floor to acoustically isolate the Imaging Modules.



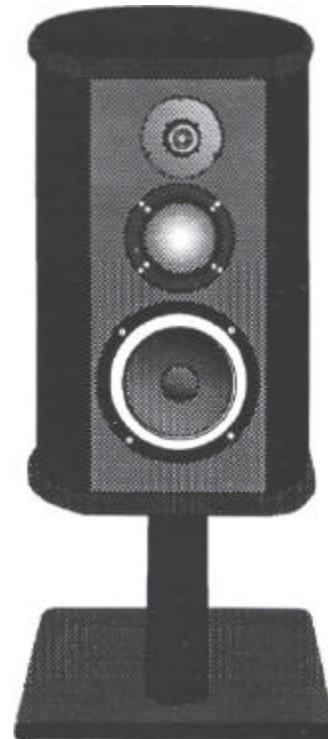
IM-8300

3-WAY IMAGING MODULE LOUDSPEAKER

- Full range speakers
- 8" Injection molded Kevlar/polypropylene woofer.
- Adjustable 3" titanium/silicon carbide midrange
- Adjustable 1" circular planar ribbon tweeter
- Computer optimized crossover network
- High gloss piano black cylindrical enclosure
- 4 custom heavy duty gold plated 5-way binding posts
- Ability to bi-amp and/or bi-wire
- LC tuned bass
- Internally wired with Monster Cable
- Optional Foundation pedestal

Specifications:

<u>Frequency response</u>	
Anechoic (± 2 dB)	44Hz-34kHz
In typical room (± 3 dB)	32Hz-34kHz
Crossover Frequencies	560Hz, 4.0kHz
Sensitivity (1m/1W)	87dB
Nominal Impedance	4.0 ohms
<u>Minimum impedance</u>	
With maximum bass extension	26 ohms
Without maximum bass extension	4.0 ohms
<u>Amplifier power specification</u>	
Minimum	100W
Maximum	400W
<u>Dimensions</u>	
Height	25" (63.2cm)
Maximum diameter	14" (35cm)
Weight (each)	75lbs. (34kg)



IM-8200

2-WAY IMAGING MODULE LOUDSPEAKER

- Full range speakers
- 8" Injection molded Kevlar/polypropylene woofer.
- Adjustable 1" circular planar ribbon tweeter
- Computer optimized crossover network
- High gloss piano black cylindrical enclosure
- 4 custom heavy duty gold plated 5-way binding posts
- Ability to bi-amp and/or bi-wire
- L_C tuned bass
- Internally wired with Monster Cable
- Optional Foundation pedestal

Specifications:

Frequency response

Anechoic (± 2 dB)	52Hz-34kHz
In typical room (± 3 dB) Crossover	40hz-34kHz
Frequencies Sensitivity (1m/1W)	3600hz
Nominal Impedance <u>Minimum</u>	86dB 4.0
<u>impedance</u>	ohms

With maximum bass extension	2.5 ohms
Without maximum bass extension	4.0 ohms

Amplifier power specification

Minimum	100W
Maximum	400W

Dimensions

Height	23" (58.1cm)
Maximum diameter	14" (35cm)
Weight (each)	60 lBS.



IM-5200

2-WAY IMAGING MODULE LOUDSPEAKER

- Full range speakers
- 5" Injection molded Kevlar/polypropylene woofer
- Adjustable 1" circular planar ribbon tweeter
- Computer optimized crossover network
- High gloss piano black cylindrical enclosure
- 2 custom heavy duty gold plated binding posts
- LC tuned bass
- Internally wired with Monster Cable
- Optional Foundation pedestal

Specifications:

Frequency response

Anechoic (± 2 dB)	77Hz-34kHz;
In typical room (± 3 dB)	60Hz-34kHz
Crossover Frequencies	3700Hz
Sensitivity (1m/1W)	85dB
Nominal Impedance	4.0 ohms

Minimum impedance

With maximum bass extension	2.6 ohms
Without maximum bass extension	4.0 ohms

Amplifier power specification

Minimum	60W
Maximum	200W

Dimensions

Height	13.5" (34.6cm)
Maximum diameter	11" (27.9cm)
Weight (pair)	80 lbs. (36.3kg)



Servo Subwoofer Series

General Features

The Drivers



- **Proprietary design features.**
This woofer design is found in Genesis Imaging Modules and Subwoofers, and nowhere else in the world.

- **Injection molded**

Kevlar in a base of polypropylene

This design optimizes the qualities of each compound, combining the light weight and high tensile strength of Kevlar with the sound damping properties of polypropylene. An extraordinarily musical bass response is the result of this composition of materials,

- **Quick and accurate response to transients** without added coloration or distortion are some of the defining characteristics of this diaphragm which produces quick and life-like bass,
- **10" and 12" woofers**
Genesis woofers create a bass response which is deep and powerful, but not boomy, resulting in bass which is true to the music.

The Amplifier

The amplifier mounts on the back of the Subwoofer or can be cabled to be located **anywhere** out of view.

- **High level inputs** are provided for use with an external amplifier or receiver.
- **Low level inputs** are also provided for use with a preamplifier.
- **A level Control pot** allows you to blend your Subwoofer with your front speakers.
- **A phase control pot which sweeps from 0 to 180 degrees** enables ease of placement and integration **with** your front **speakers**. **Proper** setting of this pot will eliminate **temporal distortion**.
- **150 and 275 watt power plants**
The Servo 10 and Servo 12 have 150 and 275 watts of **power** respectively. This **kind of power** ensures **that** your Subwoofer will **substantially** and dramatically satisfy your bass instincts.

The Crossover

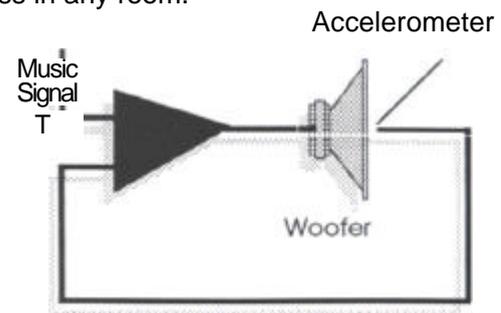
A continuously variable (40-160Hz) low-pass (high cut) filter with a 12dB per octave roll-off allows you to tune the smoothest possible transition from the frequencies handled by your speakers to those of your Genesis Subwoofers.

A three position high-pass (low cut) filter enables you to control how low the Subwoofer will go. Some recordings have low frequency anomalies, such as the sound of an air conditioner. The high-pass filter can be used to roll off these unwanted low frequency sounds.

The Servo System

An active accelerometer continuously measures the instantaneous acceleration of the cone and converts this information into an electrical signal which is then compared to the original input signal. Differences are always found, and the correction circuitry continuously corrects the differential between the two.

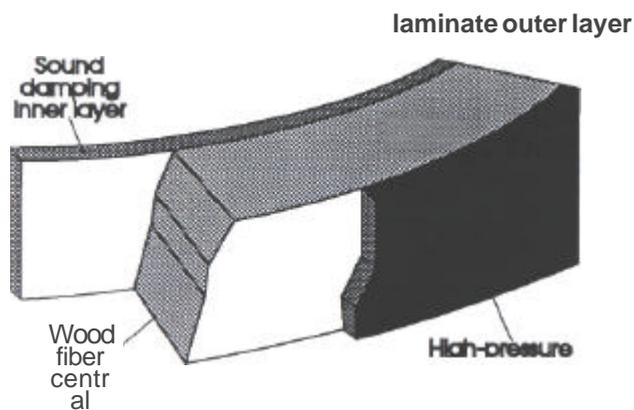
- Dynamic correction for the mass of the woofer's moving piston effectively renders it as zero mass. Because of this, the woofer is able to move as fast as the musical signal providing the most accurate bass response.
- **Servo bass systems have 10x less distortion** than non-servo designs. Thus, the Genesis Servo Subwoofers produce the cleanest, most natural bass in any room.



Feedback loop

sensor

The Enclosure



Cylindrical enclosure
 This design takes advantage of the strongest known shape to ensure that it is immune to back pressure Hexing, So strong is this structure that it is *actually superior to a 4" thick concrete rectangular enclosure of similar dimensions*. Thus, Genesis has created a virtually inert framework without typical "boxy" colorations.

Three layer construction

Made up of a central wood fiber core sandwiched between an inner damping layer and an outer high pressure laminate, these materials have resonant characteristics which offset one another for an extremely stiff, exceptionally strong combination which is virtually inert to vibration and resonances.

High gloss piano black finish

This piano black finish is a powerful, easy to clean protectant, and makes Genesis speakers beautiful pieces of furniture.

Servo 12

POWERED SERVO-CONTROLLED SUBWOOFER

- 12" Kevlar/polypropylene woofer
- 275-watt amplifier
- High and low level inputs
- High and low pass filters
- Level control
- Phase control
- Active accelerometer servo circuitry
- High gloss piano black cylindrical enclosure

Specifications:

<u>High level inputs</u>	
Impedance	100K into summing junction for low crosstalk between main channels.
Type	Balanced differential inputs. Minimum 50K isolation between channels
<u>Filters</u>	
High-pass (low cut)	22, 30, 40Hz (18dB/octave)
Low -pass (high cut)	40-160HZ continuously variable (12dB/octave)
Variable phase control	Continuously variable phase 0-180 degrees. Less than 4% THD at 3/4" p-p displacement, 22Hz
Acoustic distortion (near field)	Typical distortion under musical conditions less than 0.2%
Power amplifier power output	275 watts
Dimensions	19.5"(48.7cm) 20" (50.1 cm) 67 lbs (30.45kg)

Dimensions

Height
 Maximum
 Weight



Servo 10

POWERED SERVO-CONTROLLED SUBWOOFER

- 10" Kevlar/polypropylene woofer
- 150-watt amplifier
- High **and** low **level inputs**
- High **and** low **pass** filters
- Level control
- Phase control
- Active accelerometer servo circuitry
- High gloss piano black cylindrical enclosure

Specifications:

High level inputs

Impedance 100K into summing junction for low crosstalk between main channels.

Type Balanced differential inputs. Minimum 50K isolation between channels

Filters

High-pass (low cut) 32, 40, 50Hz (18dB/octave)

Low -pass (high cut) 40-160 Hz continuously variable (12dB/octave)

Variable phase control Continuously variable phase 0-180 degrees.

Acoustic distortion (near field) Less than 4% THD at 5/8" p-p displacement, 35Hz
Typical distortion under musical conditions less than 0.2%

Power amplifier power output 150 watts

Dimensions

Height 16.5" (41.2cm) 17"

Maximum diameter (42.6cm) 43 lbs

Weight (each) (1954kg)

NOTES

