



PARADIGM® REFERENCE

Signature Series

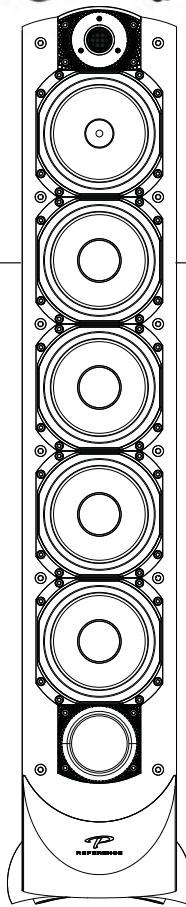


REFERENCE



Hear it. Feel it. *See it through the mind's eye*





Signature ... everything the artist intended.

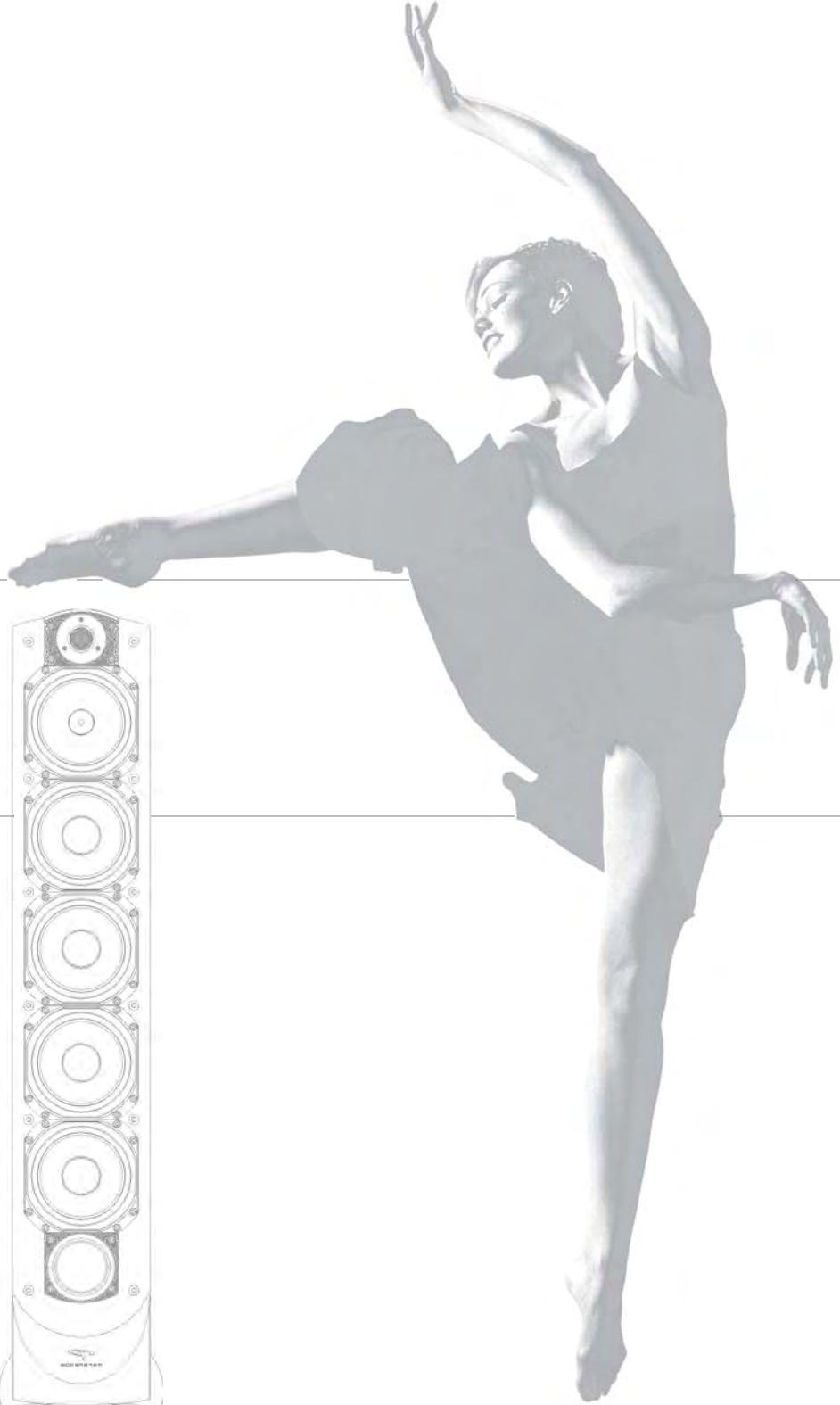
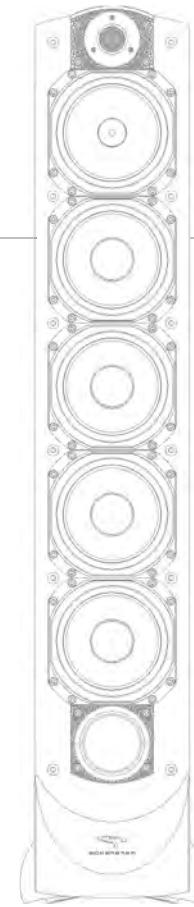


Paradigm



Surfing ... everything the artist intended

paradigm





Signature. Love to listen.

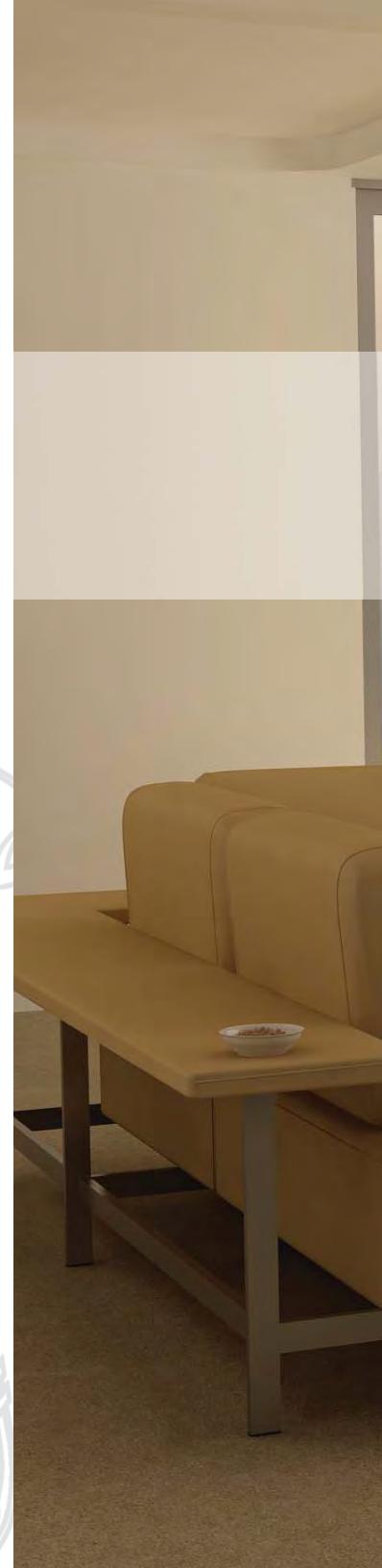
The finest speakers in the world are a medium for the music, an open window on the original performance. They take us from the mundane to the magical, beyond the ordinary to the extraordinary. They are a reflection of character. Not the sonic character of the speaker, since speakers claiming to be the finest must be devoid of acoustic personality. Rather, the finest speakers deliver an intimate unfolding of the songwriter's mood, the composer's message, the director's vision.

For music or home theater there is no more sonically coherent choice than Paradigm® Reference Signature speakers. They allow us to feel the music, hear the magic, and see, through the mind's eye, into the very heart of the performance.



www.paradigm.com

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“...flawless...utterly pure...completely transparent...beautifully articulated...magnificent...”

*Doug Schneider, SoundStage!**





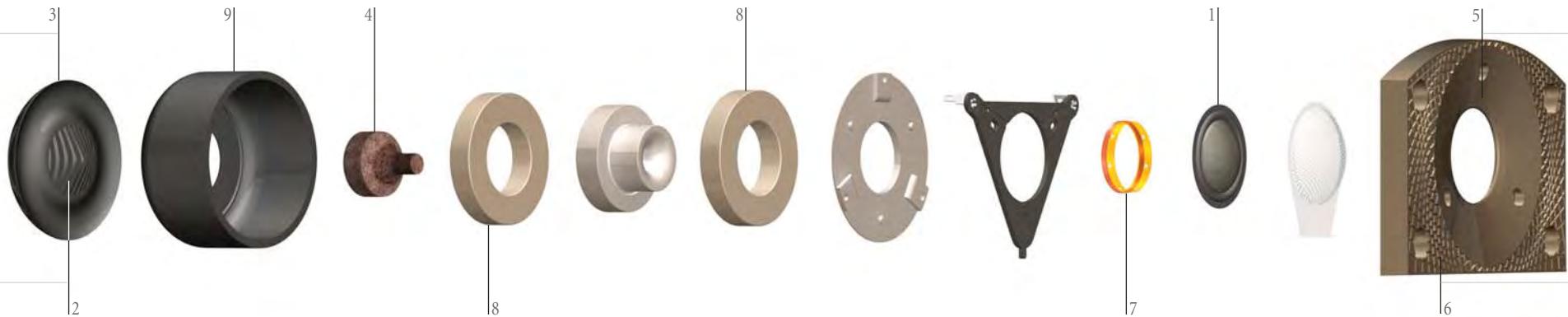
P-Be™ dome. Pure beryllium was chosen for its exceptional mechanical properties

In designing the latest Signature high-frequency drivers our objective was clear—to push the boundaries of sound reproduction yet again, moving significantly beyond what we had accomplished in the original series.

Since a tweeter's role is that of a flawless piston, constantly in motion reproducing thousands of cycles per second, choice of dome material remained critical. After much testing, re-testing, listening and learning, our designers settled on pure beryllium. Although a far more expensive material than typically found in high-end tweeter domes, beryllium was chosen for its exceptional mechanical properties: lighter than aluminum, with unmatched rigidity.

What has emerged is an even more detailed, incredibly true and transparent high-frequency presentation. Power response is immediate, with lightning speed and instantaneous reproduction of transient information. Integrity of the upper harmonics is completely intact and the tweeter's uncanny accuracy and high-frequency articulation remain a decided advantage in this era of extended bandwidth formats.

Until Signature, even the most innovative tweeter technology was found wanting when it came to eliminating the smallest of internal resonances. By contrast, Signature tweeters continue to yield an audiophile's dream—clear, uncolored, completely uncompromised high-frequency response.



Paradigm® Reference *Signature* High-Frequency Drive Units

1 | P-Be™ Pure-Beryllium Tweeter Domes:

Pure beryllium was chosen for its exceptional mechanical properties: lighter than aluminum with unmatched rigidity. Power response is instantaneous and extraordinarily uniform. The elevated dome promotes optimal off-axis dispersion.

2 | ARB™ Aperiodic Resonance Breakup Fins:

Die-cast aluminum fins in rear damping chamber capture and quickly disperse residual internal resonances, rendering them inert.

3 | Unique Exterior Heatsink Fins:

Heat dissipation fins on exterior of chamber promote superior power handling.

4 | Proprietary High-Loss Felted Acoustic Dampers:

Provide critical damping of internal resonances.

5 | Die-Cast Aluminum WaveGuide™ Coupling:

Fosters controlled, uniform dispersion as well as accurate phase response throughout a large listening window.

6 | High-Pressure Die-Cast Aluminum Heatsink Chassis:

Exceptionally rigid, eliminating mechanical flexing and ringing while also providing a heatsink for superior power handling.

7 | High-Temperature Copper-Clad Aluminum-Wire Voice Coils:

A rigid low-mass design wound on an Apical™ former promotes much higher power handling, ultra-low distortion and long-term reliability.

8 | Dual Super-Neodymium Magnet Structures:

Dwarfs all other neodymium magnet structures found in high-end tweeters, supplying superior sensitivity, ultra-low distortion and far greater power handling. The intense energy created in the magnetic gap (20,000 gauss) allows for overfilling of ferro-fluid effecting superior heat transfer. The tweeter virtually “idles” under normal operating conditions.

Computer-Optimized Magnet/Motor Assemblies:

Magnets and motor components are computer-optimized for ultimate performance (see design results, page 11).

9 | Integrated Heavy-Walled Shielding Cup

is critically contoured to eliminate stray magnetic fields from the neodymium superstructure. The cup also acts as a thermal conduit for the rear heatsink.





“... *big, bold and beautiful* ... every bit as powerful and dynamic as they look. ”

*Chris Lewis, Home Theater**



Uniform midrange performance has always been the foundation for great sound. This is because the human ear is most sensitive to midrange and lower treble frequencies. In developing Signature drivers, the challenge for Paradigm engineers was to generate supremely accurate and highly predictable frequency response from these very high-output designs.

The infusion of cobalt into the pure aluminum brings increased rigidity as well as improved damping to the lightweight character of the pure-aluminum cone. However, behind the cone lies an extraordinary feat of engineering, one that incorporates a host of advanced design features. Perhaps the most innovative being the rear chamber of the midrange driver.

Tooled to critical tolerances, the chamber's exterior is an ultra-efficient heatsink—large, strategically positioned cooling fins rapidly transfer heat away from the hard-working motor. It is the interior of the chamber, however, where the true magic of Paradigm engineering is revealed. In much the same way a listening room with similar wall and floor dimensions can negatively affect sonic performance, a *symmetrical* chamber behind a driver encourages standing waves, coloring the sound we hear. The Signature midrange chamber boasts our proprietary dual ATC™ Asymmetrical Tapered Channels. Their purpose is not only to provide optimal and predictable internal volume, they also break up and disperse cone standing waves before they can stray, or bounce back into the cone, causing sonic mischief.

The result is extraordinary midrange performance—smooth, natural, accurate and beautifully balanced, with astounding detail, unprecedented clarity and an authenticity that competes with any speaker, regardless of price.



Dual ATC™ Asymmetrical Tapered Channels breakup and disperse cone standing waves before they can cause sonic mischief

Paradigm® Reference *Signature* Midrange & Bass/Midrange Drive Units

1 | Co-PAI™ Cobalt-Infused Anodized Pure-Aluminum Midrange and Bass/Midrange Cones:

Combine high stiffness-to-mass with superior internal damping for an even greater degree of accuracy. The result is smooth, uncolored frequency response and exceptional freedom from unwanted resonances and distortion.

2 | Dual ATC™ Asymmetrical Tapered Channels (Midrange driver only):

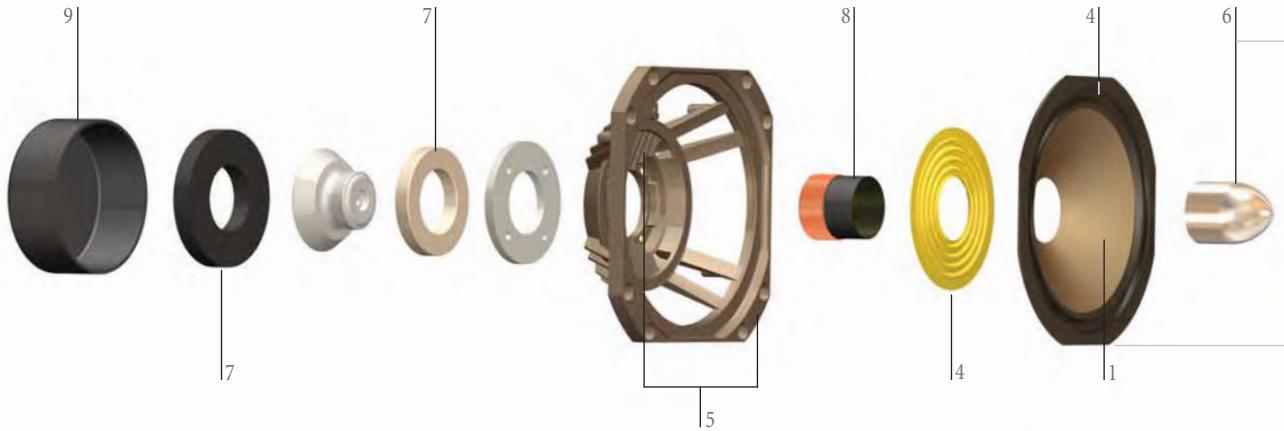
Dual function, precision die-cast aluminum chamber with dual tapered channels provides optimal internal volume. The asymmetrical design dissipates the back wave from the cone. The center of the chamber is direct-coupled to the magnet structure providing an efficient thermal escape path for heat generated by the voice coil.

3 | Proprietary High-Loss Felted Acoustic Dampers:

Provide critical damping of internal resonances.

4 | Advanced Nomex® Suspensions and Butyl-Rubber Surrounds:

Foster linear cone excursion, minimizing compliance-induced distortion. High hysteresis and progressive damping eliminate “edge-hole” distortion which occurs when the cone’s suspension begins to resonate uncontrollably.



Paradigm® Reference *Signature* Bass Drive Units (not shown)

Mineral-Filled Polypropylene Bass Cones:

Superior stiffness-to-mass ratio with critical internal damping. Precision engineered for higher sensitivity, higher power handling and ultra-low levels of distortion.

Massive Optimized Magnet/Motor Assemblies with Focused-Field Geometry:

Breakthrough design/technology allows the use of massive ceramic/ferrite-composite magnet/motor structures (3.6 kg / 8 lb each in the S8!) yielding extremely high output, remarkably low distortion and excellent power handling.

5 | High-Pressure Die-Cast Aluminum Heatsink Chassis with AVS™ Cooling:

Exceptionally rigid design eliminates mechanical flexing and ringing. AVS™ Airflow Ventilation System cooling boosts power handling and ensures ultra-low distortion and exceptional reliability. Chassis are CNC-machined to ensure a precision fit.

6 | Anodized Solid-Aluminum Phase Plugs:

Promote smooth, extended frequency response and ultra-efficient heat dissipation. Critically shaped to ensure wide, uniform off-axis dispersion.

7 | Computer-Optimized Super-Neodymium Magnet Structures (Midrange driver only):

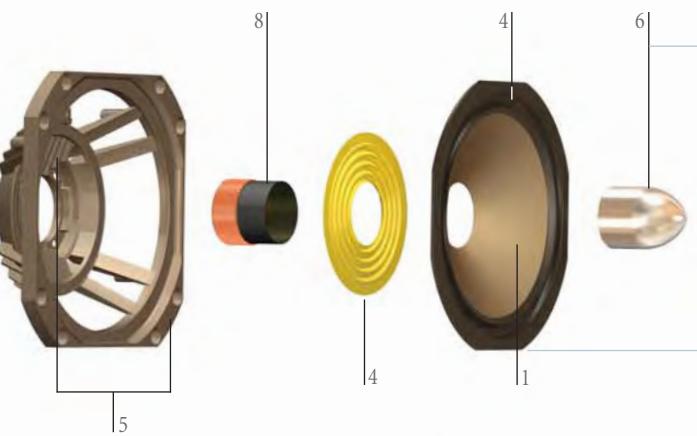
Provide 50% more energy in the magnetic gap, saturating the pole piece and virtually eliminating inductive distortion (see design results, page 11).

8 | Lightweight Copper-Wire Voice Coils:

High-temperature rigid low-mass design wound on ventilated Kapton® former ensures superb accuracy and reliability.

9 | Heavy-Walled Shielding Cup

is mounted on the magnet system to help eliminate stray magnetic fields.



High-Pressure Die-Cast Aluminum Chassis with AVS™ Cooling:

Rigid design eliminates mechanical flexing and ringing. Heatsink chassis and AVS™ Airflow Ventilation System cooling boost power handling while also ensuring ultra-low distortion and greater reliability. Chassis are CNC-machined to ensure precision fit.

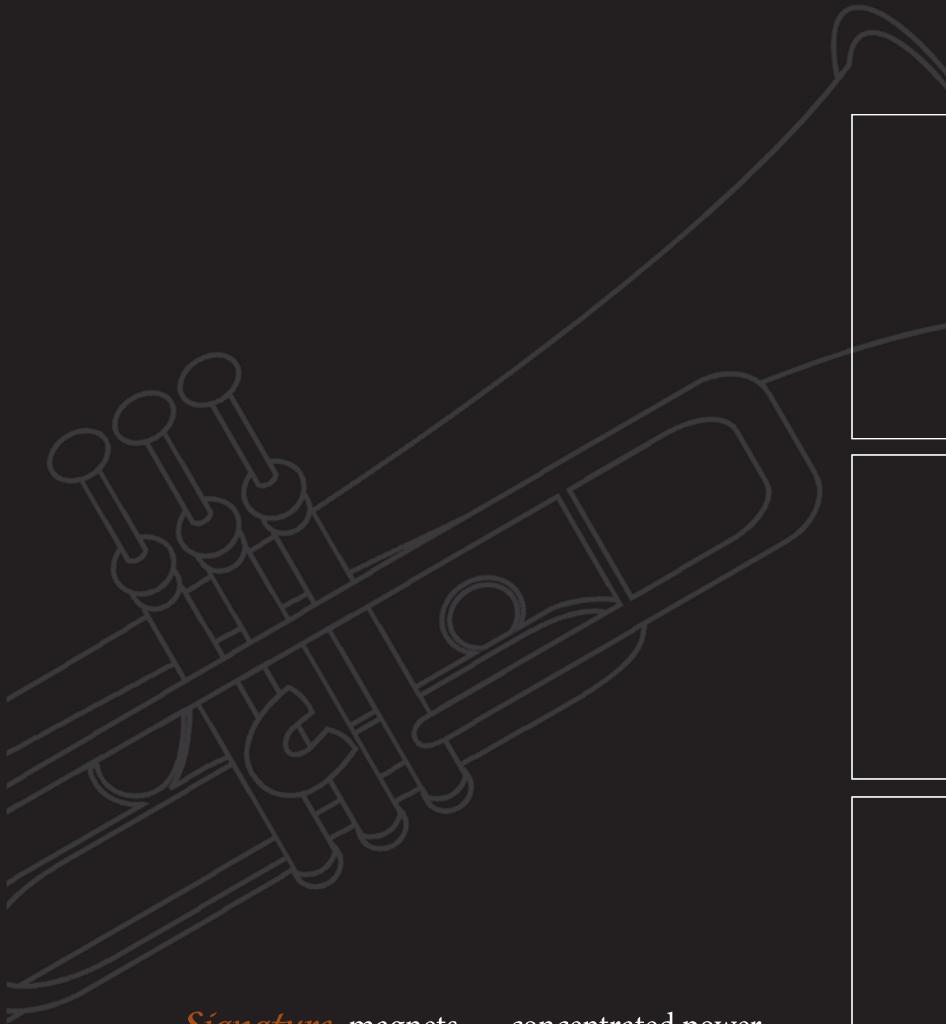
Lightweight Long-Travel Aluminum- or Copper-Wire Voice Coils:

High-temperature rigid low-mass voice coils wound on ventilated Kapton® or Apical™ formers guarantee superb accuracy and exceptional reliability.



“...superb...exemplary ... outstanding performance in every conceivable parameter.

*Chris Montreuil, Secrets of Home Theater and High Fidelity**



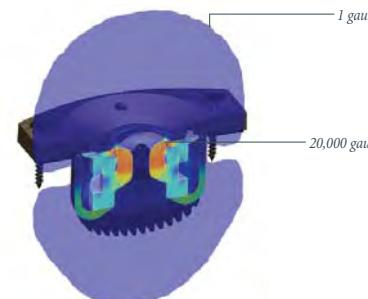
Signature magnets ... concentrated power

Using Finite Element Analysis (FEA), a highly advanced tool for component design, Paradigm engineers spent months enacting numerous “what if?” scenarios, experimenting with various designs and materials in order to optimize the magnet structures of Signature drivers. Our goal was to develop magnet structures that would generate unusually high energy in the magnetic gap.

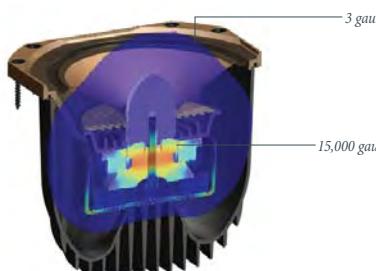
The end results of our in-depth analysis and experimentation are spectacular. Design results (far right) show how Signature drivers produce an incredibly powerful magnetic field, yielding extraordinary energy in the magnetic gap. Consequently, Signature drivers boast outstanding transient- and phase-response characteristics as well as superb power handling and output linearity.



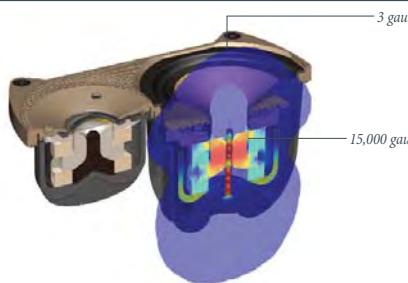
Using FEA, Paradigm engineers optimized the magnet structures of all Signature drivers, resulting in outstanding transient and phase response with superb power handling and output linearity.



**High-Frequency Driver:
Magnet Structure Design**
Magnetic energy at the voice coil is an extraordinarily powerful 20,000 gauss.



**7" Midrange Driver:
Magnet Structure Design**
Magnetic energy at the voice coil is exceptionally powerful at 15,000 gauss.



Unified Driver Assembly: High-Frequency and 4" Midrange Drivers – Magnet Structure Design of 4" Midrange
Magnetic energy at the voice coil is exceptionally powerful at 15,000 gauss.



“ ... great speakers ... *superb*



”

... beautiful to behold.

*Fred Manteghian, Ultimate AV **



Precision Crossover Networks

In typical Paradigm fashion, Signature drivers are designed with ideal frequency- and phase-response characteristics, allowing for minimalist crossover networks. Nonetheless, Signature's crossover still represented a significant design choice on the part of Paradigm engineers—particularly in light of our commitment to very high system output.

To ensure the highest precision signal transfer to the drivers, Signature internal wiring is costly S-OFC™ Silverplated Oxygen-Free Copper cable, spiraled to reduce inductive distortion, maintaining the overall integrity of the audio signal. Only the finest quality parts and materials are used in Signature crossovers—hand-selected close-tolerance air-core inductors, high-power ceramic resistors and superior polypropylene capacitors.

What results is a precise, profoundly seamless reproduction of the original performance, across the entire frequency spectrum.

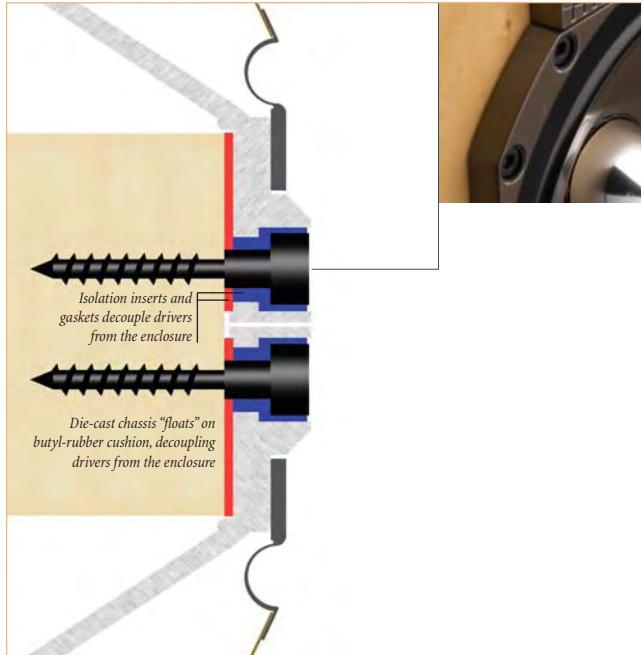


IMS/SHOCK-MOUNT™

It's the attention to (or more correctly, the *obsession with*) details that separates the very best high-end speaker designs from the rest. Take, as an example, our IMS/SHOCK-MOUNT™ butyl-rubber driver fastening system. Developed in response to the nemesis of all speaker designers—cabinet resonances and vibrations—our Isolation Mounting System (IMS) is simply another step on the road to audio perfection. Critically placed isolation inserts and gaskets actually decouple drivers from the speaker enclosure itself. This "baffleless" technology reduces driver/enclosure interactions and their associated enclosure resonances to inaudible levels. In Signature speakers the problem of enclosure resonances is not simply reduced, it is essentially eliminated.

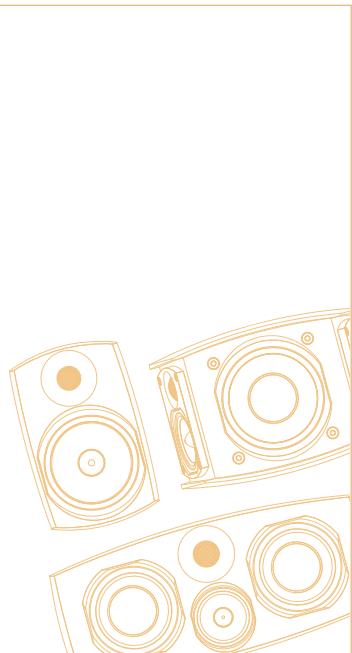
The "fully integrated" approach

The beauty of both IMS/SHOCK-MOUNT™ technology and the design of our more compact Signature models (see page 15) lies not only in their functional simplicity. Both approaches to design represent the high-end thinking that exists behind all Paradigm® Reference products. A thinking that insists that a fully integrated design—one in which all parts are designed to work together as a whole—is simply better *by design*.



Gorgeous Paradigm® Speaker Stands

A speaker collection of Signature's caliber deserves the best in stands, both sonically and aesthetically. Paradigm® stands, supremely elegant and incredibly solid, complement the Signature Series speakers while also ensuring complete stability. See photos on specifications pages in the back of this catalog. For more details on these stands, see your Dealer.



Signature Ultra-Compact Lifestyle Models

How do you achieve the performance caliber of Paradigm® Reference Signature in such ultra-compact models as the Signature S1, C1 and ADP1? The answer? Enclosure design and implementation must play a critical role.

All parts (baffle, rear and shell) on these compact cabinets are die-cast aluminum. The die-cast design also functions as an effective heatsink. Bass/midrange (S1) and bass driver (ADP1) baffles and chassis are physically integrated allowing space for a powerful 6-inch (155 mm) driver. Cabinet interiors reveal heavy-wall construction and extensive internal bracing. Constrained Layer Damping (CLD), a technique used extensively and with great success across aviation and naval platforms, is used in conjunction with a sophisticated Permacote® Linacoustic® to completely subdue stray residual vibrational energy within the cabinets. The end result? All the high-end performance of a much larger Signature Series speaker in a significantly smaller package.



“... *spellbinding performance* ... a class act, through and through.”

*Martin Bell, FFWD **

In the speaker design process it is essential that sound from the left and right front speakers blend as perfectly as possible with that of the center channel. Not only are these three front speakers the heart of a music system, they are also key players in a home theater. Front speakers reproduce off-screen dialog, sound effects and much of the music, while the center channel delivers on-screen dialog, sound effects and music. Perhaps more than any other speakers in a music or home theater system, this trio must be designed and engineered to integrate seamlessly. Consequently, Signature center channels enjoy the same state-of-the-art technology that is used with such success in Signature front speakers; modified, of course, to suit the center channel's distinct role.

Achieving optimal sound from our center channels required a physically integrated approach—as you can see (opposite page), both tweeter and midrange driver are contained within a low-profile one-piece die-cast aluminum faceplate. In concert with innovative Signature technology, this unique configuration produces an exceptionally uniform frequency response across a wide listening area. It also provides the same precision and accuracy as that of Signature left and right speakers, thereby ensuring extreme timbre matching.



Extreme Timbre Matching

The final frontier in achieving seamless multichannel music and home theater performance is timbre matching—the identical sonic signature passing smoothly from speaker to speaker. Timbre matching has a profound and fundamental impact on the sound we hear. For true state-of-the-art multichannel performance, sound must flow from speaker to speaker with “dead-on” accuracy.

Timbre matching center-channel and rear/surround speakers with front speakers is perhaps the ultimate challenge for a speaker designer. How do you make sound from a horizontal center channel blend seamlessly with that from vertically configured front speakers? The mere differences in horizontal and vertical orientation will cause changes in timbre. And to compound the challenge, with their large reverberant soundfield, Paradigm’s ADP™ surround/rear speakers have an altogether different driver orientation—one which enables them to accurately disperse sound towards the front and the back of the room.

Building on Signature’s countless advanced design features, Paradigm engineers set to work measuring, listening, testing and re-testing yet again. Their goal was to achieve vastly superior timbre matching. Two critical components lie behind our success—the precision and accuracy of our remarkable unified drive assembly and the sophisticated crossover design itself.

The result is unique to Paradigm® Reference Signature—Extreme Timbre Matching. Properly set up in a good, neutral listening room, the fundamental timbre of each Signature speaker is not just closely matched—it is virtually identical.



Extreme Timbre Matching ensures a seamless sonic match with all other speakers in the system.



Technical Specifications



S1

Design
2-driver, 2-way, ultra-compact
bookshelf / stand-mounted,
shown on GS-30 stand*



S2

Design
2-driver, 2-way,
bookshelf / stand-mounted,
shown on J-29 stand*



S4

Design
3-driver, 2-1/2-way,
bookshelf / stand-mounted,
shown on J-23 stand*



S6

Design
4-driver, 3-way,
floorstanding



S8

Design
6-driver, 3-way,
floorstanding

S1

Crossover
3rd-order electro-acoustic at 2.1 kHz

High-Frequency Driver
25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super-neodymium magnets; die-cast enclosure / integrated heatsink chassis

Bass / Midrange Driver
155-mm (6 in) Co-PAL™ cone; anodized solid-aluminum phase plug; 38-mm (1-1/2 in) dual-layer voice coil; ceramic / ferrite magnets; integrated AVS™ baffle / die-cast heatsink chassis

Low-Frequency Extension*
58 Hz (DIN)

Frequency Response
On-Axis:
±2 dB from 72 Hz – 45 kHz

30° Off-Axis:
±2 dB from 72 Hz – 20 kHz

Sensitivity – Room / Anechoic
87 dB / 84 dB

Suitable Amplifier Power Range
15 – 175 watts

Maximum Input Power†
100 watts

Impedance
Compatible with 8 ohms

Internal Volume
7.5 L / 0.26 cu ft

Height, Width, Depth
27.0 cm x 17.0 cm x 22.0 cm
10-1/2 in x 6-3/4 in x 8-3/4 in

Weight
11.6 kg / 25 lb per pair

Available Finishes
Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand
GS-30

S2

Crossover
3rd-order electro-acoustic at 1.9 kHz

High-Frequency Driver
25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super-neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass / Midrange Driver
178-mm (7 in) Co-PAL™ cone; anodized solid-aluminum phase plug; 38-mm (1-1/2 in) dual-layer voice coil; ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*
38 Hz (DIN)

Frequency Response
On-Axis:
±2 dB from 52 Hz – 45 kHz

30° Off-Axis:
±2 dB from 52 Hz – 20 kHz

Sensitivity – Room / Anechoic
91 dB / 88 dB

Suitable Amplifier Power Range
15 – 225 watts

Maximum Input Power†
140 watts

Impedance
Compatible with 8 ohms

Internal Volume
13.7 L / 0.48 cu ft

Height, Width, Depth
38.1 cm x 21.0 cm x 35.6 cm
15 in x 8-1/4 in x 14 in

Weight
25.4 kg / 56 lb per pair

Available Finishes
Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand
J-29

S4

Crossovers
3rd-order electro-acoustic at 1.9 kHz;
2nd-order electro-acoustic at 400 Hz
(bass driver)

High-Frequency Driver
25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super-neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass / Midrange Driver
178-mm (7 in) Co-PAL™ cone; anodized solid-aluminum phase plug; 38-mm (1-1/2 in) dual-layer voice coil; ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*
35 Hz (DIN)

Frequency Response
On-Axis:
±2 dB from 56 Hz – 45 kHz

30° Off-Axis:
±2 dB from 56 Hz – 20 kHz

Sensitivity – Room / Anechoic
91 dB / 88 dB

Suitable Amplifier Power Range
15 – 325 watts

Maximum Input Power†
180 watts

Impedance
Compatible with 8 ohms

Internal Volume
21.4 L / 0.75 cu ft

Height, Width, Depth
55.9 cm x 21.0 cm x 35.6 cm
22 in x 8-1/4 in x 14 in

Weight
39 kg / 86 lb per pair

Available Finishes
Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand
J-23

S6

Crossovers
3rd-order electro-acoustic at 1.9 kHz;
2nd-order electro-acoustic at 350 Hz

High-Frequency Driver
25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super-neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Driver
178-mm (7 in) Co-PAL™ cone; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plug; 38-mm (1-1/2 in) dual-layer voice coil; dual super-neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Drivers
Two 178-mm (7 in) mineral-filled polypropylene cones; 38-mm (1-1/2 in) dual-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*
28 Hz (DIN)

Frequency Response
On-Axis:
±2 dB from 50 Hz – 45 kHz

30° Off-Axis:
±2 dB from 50 Hz – 20 kHz

Sensitivity – Room / Anechoic
91 dB / 88 dB

Suitable Amplifier Power Range
15 – 400 watts

Maximum Input Power†
200 watts

Impedance
Compatible with 8 ohms

Internal Volume
47.1 L / 1.66 cu ft

Height, Width, Depth
111.0 cm x 21.0 cm x 34.5 cm
43-3/4 in x 8-1/4 in x 13-1/2 in

Weight
63.6 kg / 140 lb per pair

Available Finishes
Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand
n/a

S8

Crossovers
3rd-order electro-acoustic at 1.9 kHz;
2nd-order electro-acoustic at 250 Hz

High-Frequency Driver
25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super-neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Driver
178-mm (7 in) Co-PAL™ cone; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plug; 38-mm (1-1/2 in) dual-layer voice coil; dual super-neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Drivers
Four 178-mm (7 in) mineral-filled polypropylene cones; 38-mm (1-1/2 in) four-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*
26 Hz (DIN)

Frequency Response
On-Axis:
±2 dB from 42 Hz – 45 kHz

30° Off-Axis:
±2 dB from 42 Hz – 20 kHz

Sensitivity – Room / Anechoic
92 dB / 89 dB

Suitable Amplifier Power Range
15 – 500 watts

Maximum Input Power†
250 watts

Impedance
Compatible with 8 ohms

Internal Volume
74.9 L / 2.6 cu ft

Height, Width, Depth
123.2 cm x 21.0 cm x 52.1 cm
48-1/2 in x 8-1/2 in x 20-1/2 in

Weight
90.7 kg / 200 lb per pair

Available Finishes
Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand
n/a



C1 Design
4-driver, 3-way, ultra-compact center channel



C3 Design
4-driver, 3-way, center channel



C5 Design
6-driver, 3-1/2-way, center channel

C1

Crossovers

3rd-order electro-acoustic at 2.3 kHz;
2nd-order electro-acoustic at 550 Hz

High-Frequency Driver

25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super neodymium magnets; die-cast enclosure / integrated heatsink chassis

Midrange Driver

85-mm (3-1/2 in) Co-PAL™ cone; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plug; 25-mm (1 in) dual-layer voice coil; dual super neodymium magnets; AVS™ die-cast heatsink chassis

Bass Drivers

Two 127-mm (5 in) mineral-filled polypropylene cones; 38-mm (1-1/2 in) dual-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis

Low-Frequency Extension*

60 Hz (DIN)

Frequency Response

On-Axis:

±2 dB from 73 Hz – 45 kHz

30° Off-Axis:

±2 dB from 73 Hz – 20 kHz

Sensitivity – Room / Anechoic

88 dB / 85 dB

Suitable Amplifier Power Range

15 – 225 watts

Maximum Input Power†

140 watts

Impedance

Compatible with 8 ohms

Internal Volume

8.1 L / 0.29 cu ft

Height, Width, Depth

18.0 cm x 43.0 cm x 22.5 cm
7 in x 17 in x 9 in

Weight

10.5 kg / 25 lb each

Finishes

Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand

n/a

C3

Crossovers

3rd-order electro-acoustic at 1.9 kHz;
2nd-order electro-acoustic at 250 Hz

High-Frequency Driver

25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Driver

102-mm (4 in) Co-PAL™ cone; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plug; 25-mm (1 in) dual-layer voice coil; dual super neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Drivers

Two 178-mm (7 in) mineral-filled polypropylene cones; 38-mm (1-1/2 in) dual-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*

32 Hz (DIN)

Frequency Response

On-Axis:

±2 dB from 55 Hz – 45 kHz

30° Off-Axis:

±2 dB from 55 Hz – 20 kHz

Sensitivity – Room / Anechoic

91 dB / 88 dB

Suitable Amplifier Power Range

15 – 325 watts

Maximum Input Power†

180 watts

Impedance

Compatible with 8 ohms

Internal Volume

23.9 L / 0.84 cu ft

Height, Width, Depth

24.1 cm x 67.3 cm x 33.0 cm
9-1/2 in x 26-1/2 in x 13 in

Weight

20.4 kg / 45 lb each

Finishes

Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand

J-18C

C5

Crossovers

3rd-order electro-acoustic at 2.0 kHz;
2nd-order electro-acoustic at 450 Hz;
2nd-order electro-acoustic at 350 Hz (outer bass drivers)

High-Frequency Driver

25-mm (1 in) P-Be™ dome; ferro-fluid damped / cooled; rear damping chamber with ARB™ fins and integrated heatsink; dual super neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Driver

102-mm (4 in) Co-PAL™ cone; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plug; 25-mm (1 in) dual-layer voice coil; dual super neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass / Midrange Drivers

Two 178-mm (7 in) Co-PAL™ cones; anodized solid-aluminum phase plugs; 38-mm (1-1/2 in) dual-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Drivers

Two 178-mm (7 in) mineral-filled polypropylene cones; 38-mm (1-1/2 in) dual-layer voice coils; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*

25 Hz (DIN)

Frequency Response

On-Axis:

±2 dB from 50 Hz – 45 kHz

30° Off-Axis:

±2 dB from 50 Hz – 20 kHz

Sensitivity – Room / Anechoic

92 dB / 89 dB

Suitable Amplifier Power Range

15 – 500 watts

Maximum Input Power†

250 watts

Impedance

Compatible with 8 ohms

Internal Volume

48.7 L / 1.7 cu ft

Height, Width, Depth

24.1 cm x 95.3 cm x 44.4 cm
9-1/2 in x 37-1/2 in x 17-1/2 in

Weight

36.7 kg / 81 lb each

Finishes

Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand

J-18C



ADP1

Design

5-driver, 3-way, ultra-compact surround/rear, on-wall; optimized reverberant soundfield



ADP3

Design

5-driver, 3-way surround/rear, optimized reverberant soundfield

ADP1

Crossovers

3rd-order electro-acoustic at 1.9 kHz;
2nd-order electro-acoustic at 300 Hz

High-Frequency Drivers

Two 25-mm (1 in) P-Be™ domes; ferro-fluid damped / cooled; rear damping chambers with ARB™ fins and integrated heatsinks; dual super neodymium magnets; die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Drivers

Two 85-mm (3-1/2 in) Co-PAL™ cones; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plugs; 25-mm (1 in) dual-layer voice coils; dual super neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Driver

155-mm (6 in) mineral-filled polypropylene cone; 38-mm (1-1/2 in) four-layer voice coil; massive ceramic / ferrite magnets; integrated AVS™ baffle / die-cast heatsink chassis;

Low-Frequency Extension*

70 Hz (DIN)

Frequency Response

±2 dB from 99 Hz - 45 kHz
(optimized reverberant soundfield)

Sensitivity – Room / Anechoic

88 dB / 85 dB

Suitable Amplifier Power Range

15 - 225 watts

Maximum Input Power†

140 watts

Impedance

Compatible with 8 ohms

Internal Volume

5.6 L / 0.2 cu ft

Height, Width, Depth

19.0 cm x 30.5 cm x 15.5 cm
7-1/2 in x 12 in x 6 in

Weight

14.0 kg / 31 lb per pair

Available Finishes

Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand

GS-30

ADP3

Crossovers

3rd-order electro-acoustic at 1.8 kHz;
2nd-order electro-acoustic at 250 Hz

High-Frequency Drivers

Two 25-mm (1 in) P-Be™ domes; ferro-fluid damped / cooled; rear damping chambers with ARB™ fins and integrated heatsink; dual super neodymium magnets die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Midrange Drivers

Two 102-mm (4 in) Co-PAL™ cones; ferro-fluid damped / cooled; ATC™ chambers; anodized solid-aluminum phase plugs; 25-mm (1 in) dual-layer voice coils; dual super neodymium magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Bass Driver

210-mm (8 in) mineral-filled polypropylene cone; 38-mm (1-1/2 in) four-layer voice coil; massive ceramic / ferrite magnets; AVS™ die-cast heatsink chassis; IMS/SHOCK-MOUNT™

Low-Frequency Extension*

60 Hz (DIN)

Frequency Response

±2 dB from 82 Hz - 45 kHz
(optimized reverberant soundfield)

Sensitivity – Room / Anechoic

89 dB / 86 dB

Suitable Amplifier Power Range

15 - 250 watts

Maximum Input Power†

180 watts

Impedance

Compatible with 8 ohms

Internal Volume

9.1 L / 0.33 cu ft

Height, Width, Depth

33.7 cm x 35.9 cm x 19.1 cm
13-1/4 in x 14-1/8 in x 7-1/2 in

Weight

23.6 kg / 52 lb per pair

Available Finishes

Cherry, Natural Birdseye Maple, Piano Black

Matching Paradigm® Speaker Stand

n/a



The Last Word in Elegance

Anti-Diffraction Grille Assemblies:

All Paradigm® Reference Signature Series speakers are meant to be played with their grille assemblies in place. Elegant, softly sculpted grille assemblies fit flush with the drivers, their curved outer edges designed to eliminate the sound reflections that otherwise occur at the front outer edges of the enclosure. These reflections, called edge diffraction, interfere with the primary sound output coming from a driver.

High-Velocity Low-Noise Die-Cast Aluminum Ports:

Bass efficiency and minimum turbulence distortion result in exceptionally clean and articulate bass response.

Premium Finishes:

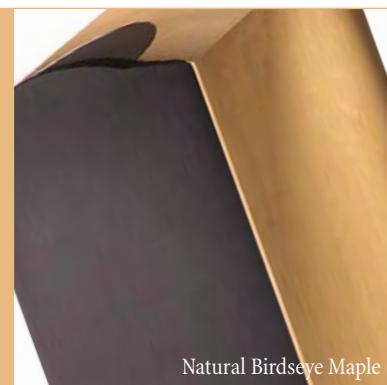
Signature Series enclosures are enhanced by a choice of three stunning wood veneer finishes—Cherry, Natural Birdseye Maple and Piano Black.

Elegant Outrigger Feet and Floorstanding Spikes:

Elegant die-cast aluminum outrigger feet are included on Signature floorstanding and selected center-channel models, providing added stability, not to mention a truly elegant finishing touch. Optional spikes, used in conjunction with outrigger feet, are also included with floorstanding models.

Paradigm's commitment to sonic accuracy led us to create research and development facilities that are among the most sophisticated and comprehensive in the world. These facilities allow us almost endless experimentation—an enviable advantage, since genuine improvement in speakers is an ongoing experimental process.

With rave reviews from around the world and nearly 300 product awards over the past decade, Paradigm® is an international leader in speaker design. Our products are chosen by even the most critical listeners. We have remained true to our original philosophy—to design speaker systems that are fundamentally accurate, speakers that transparently reproduce all of the sound in the original source recording. Nothing more, nothing less.



Signature Series from Paradigm® Reference: A higher level of transparency.



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Paradigm Electronics Inc.

In the U.S.: MPO Box 2410, Niagara Falls NY 14302
T: (905) 632-0180

In Canada: 205 Annagem Blvd., Mississauga ON L5T 2V1
T: (905) 564-1994

Catalog photography by Jason Hartog Photography; Roy Timm, Wavelength. SIGCAT 2.0. Printed in Canada.

www.paraдинg.com

For distribution information outside the U.S. and Canada contact:

Paradigm Export Division

T: (905) 564-1994 F: (905) 564-8726