

BASS NOTES

Paradigm[®]

A SUBWOOFER FOR EVERY TASTE AND EVERY SPACE

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Paradigm fundamentals for **PERFECT BASS**

**POWER.
PUNCH.
PACE.
PRICE.
PBK.**

IF IT'S WORTH BUILDING, IT'S WORTH BUILDING WELL

Our goal is to be best-in-class with every subwoofer we produce.

"There are other über-subs out there, and I haven't heard them all. But over the years I've been in this biz, a lot of subs have passed through my room, and I've been treated to home theater demos of all kinds all over the world. I've never heard a sub that approaches the performance of the SUB 2. This is 230 pounds of pure, pulverizing home theater excitement. Why would Paradigm design and build such a thing? Because they can."

– Shane Buettner, *Home Theater on the SUB 2*

Paradigm is one of the largest high-end audio companies in the world. We built the world's most *powerful* subwoofer! Our approach is cutting-edge. Our amplifier designs include comprehensive heat-dissipation systems, sophisticated anti-clipping circuitry, advanced output stages and Power Factor Correction which allows the maximum amount of power to be drawn from the wall. Our Digital Signal Processing designs use sophisticated mathematical algorithms to ensure that even when our subs are playing at high output, performance remains clean and musical. Woofers are state-of-the-art with highest quality component parts. We offer unique vibration-cancelling designs. Our selection rivals manufacturers who produce nothing but subwoofers and we have models to suit every every application, taste and budget.

Even when a perfectly designed subwoofer is perfectly positioned, problems of the room — dimensions, dead spots, architectural details, even furniture — can negatively effect performance. Our Perfect Bass Kit (PBK) room correction system resolves such problems quickly, easily and scientifically (*details on page 1*).

The majority of our subwoofers are manufactured in our Toronto, Canada facility, but Paradigm's reach is global. Our products are sold on six continents and we have fans in every corner of the world. If you've never heard a Paradigm subwoofer play, you're in for a treat. For more information visit paradigm.com.

“Audibly **BETTER BASS** through science.”

– Chris Martens, *AVguide.com* on PBK



Even when a subwoofer is perfectly placed, the room can have a dramatic negative impact on bass performance. Room dimensions, dead spots, archways, even furniture placement can turn a room into an additional instrument, playing alongside musicians or movie scores with unwanted contributions of coloration and resonance. Bass can sound bloated or boomy with poor definition. The answer? PBK!

PBK is unlike any other room correction system: Our state-of-the-art ‘bass perfecting’ system analyzes the sub’s response in the room, then sets equalization parameters to attain optimal sound. The frequency response of each PBK microphone is measured and the data is used to create the microphone’s calibration file included on the PBK software disk.

PBK applies Super-Efficient Infinite Impulse Response (IIR) Filters in addition to Custom Filter Topology: This minimizes delay and reduces processing gain noise. This combined approach of limiting the width of IIR filters and applying custom topology means that any sound artifacts that may have resulted from the filtering process are so small as to be completely inaudible.

PBK allows for Multiple Microphone Measurements: Most room equalization methods work from a single point source, taking one measurement at the primary listening position. PBK provides for multiple points, we suggest a minimum of five, but up to ten positions can be measured. Multiple measurements ensure far more balanced and accurate outcome.

Unlike many “Room EQ” systems, PBK applies Correction to Peaks (modes) and Dips (anti-modes): Tackling both allows us to achieve a more accurate and natural room response. To limit demand on the amplifier and maximize signal-to-noise ratio, PBK applies appropriate limits to its corrections.

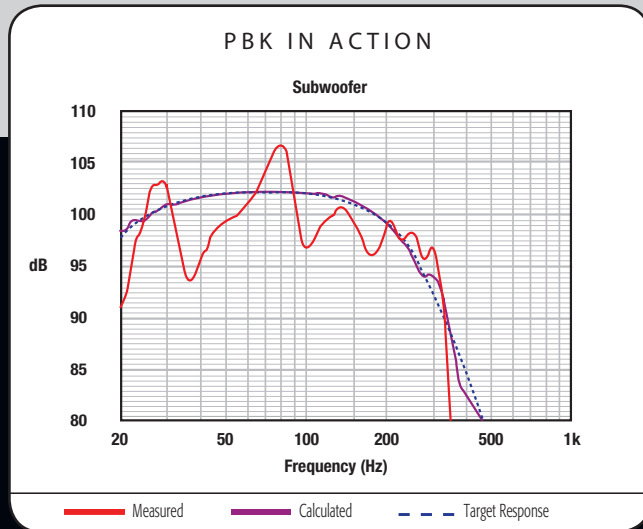
PBK is Ultra-Accurate: Your PC’s 64-bit floating-point processor does the work of calculating the correction curves, this greatly minimizes the rounding errors of a less sophisticated calculator.

Easy-to-Use: We’ve made it a snap for you to attain Perfect Bass in any room! All you need is a PC running Windows XP or Vista or a Mac running Boot Camp, two USB ports and the kit. We even included USB cables: one for the microphone and one for the subwoofer.

WORD ON THE STREET ABOUT PBK?

"Setting it up is a pretty straightforward affair ... connect your computer to the sub and microphone via USB cables (all included), load the software and follow the instructions ... the results were pretty impressive ... well worth the price, especially if your room is acoustically messy."

– Sean Killebrew, *Home Theater Review*



PBK is a derivative of Anthem's Room Correction (ARC) system, based on research conducted by the National Research Council (NRC). The NRC's goal was to identify the correct in-room target response for a loudspeaker and then develop a way to achieve that same response in any room. Using proprietary processing, PBK measures your sub's in-room frequency response then computes the response needed to yield optimal performance in your room. You can use PBK with up to four Paradigm subs at once.

HOW DOES PBK DO WHAT IT DOES?

The process begins when your computer signals the sub to play the test signal. The signal is picked up by the individually calibrated microphone. The system then puts the sub through a frequency sweep to highlight problem areas and decide on adjustments. It asks you to position the mic in at least five different locations. Configurations are saved on the connected PC. Optimized solutions are calculated, then uploaded to the subwoofer and the room corrections are put in place. A true scientific solution!



Shown: PBK in a 7.1 setup with primary listening position marked

AS GOOD AS IT GETS

SIGNATURE SUB 2

One of the best subs, if not the **BEST ON THE PLANET.**

The most difficult task in designing SUB 2 was not just to have it play lower AND louder than any other subwoofer. It was to do it in a size that wouldn't dominate the average living room. From a cabinet diameter of just 21", SUB 2 plumbs the depths to 7 Hz with bloodcurdling output: 112 dB at 10 Hz! A glass of water placed on top of the cabinet while SUB 2 is playing at full-on output elicits barely a ripple, thanks to our unique Vibration Cancelling Design architecture.

With six cutting-edge drivers, transient information is conveyed with pristine clarity and perfect precision, eerily accurate and detailed. Dynamics come through with mind-blowing speed and a power so shattering it must be heard to be believed. *SoundStage!* calls it a: **"tremendously ambitious effort that redefines what should be expected of a powered subwoofer."**



INPUT FACILITIES:

Line-Level Input – RCA
Line-Level Input – Balanced XLR

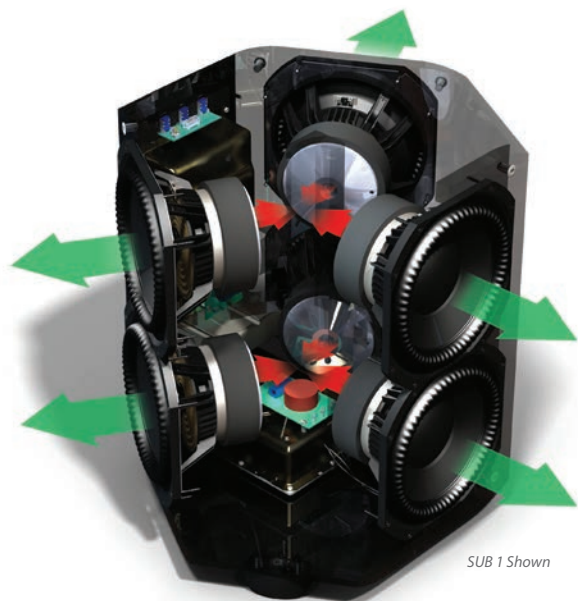
CONTROL FACILITIES:

Auto On/Off
Trigger On/Off
Subwoofer Cut-Off with Bypass Option
(Continuously variable 35 Hz – 150 Hz)
Subwoofer Level Control
Sub/Sat Phase Alignment
(Continuously variable 0° – 180°)
PBK Interface/USB Port



PBK™

Paradigm Perfect Bass Kit™ Included.
Digital Room Correction system.
Full details on page 1.



SUB 1 Shown

Vibration Cancelling Design Architecture:

Six identical, state-of-the-art balanced drivers are radially aligned inside the cabinet. As opposing forces of equal magnitude, the vibration-reaction forces (see picture above) cancel each other out. See a video of our Vibration Cancelling architecture in action on Paradigm's YouTube channel.

For more comprehensive details on SUB 2 drivers, including a discussion on component parts, visit paradigm.com.

Technical Specs

Design

Hexagonal cabinet with six multiple high-excursion drivers radially aligned. Vibration-Cancelling Design architecture. Built-in Ultra-Class-D™ power amplifier with Power Factor Correction. Sealed enclosure. USB port for PBK equalization.

Amplifier: High-Current, Discrete Output

9,000 watts Dynamic Peak / 4,500 watts RMS Sustained, connected to a 240-volt outlet. (See note on Universal Input Power at right.)

Amplifier Features

Auto-On / Off, Trigger-On / Off, soft clipping, electrical shorting protection, thermal protection.

Bass Drivers

Six 254-mm (10 in) RCR™ mineral-filled co-polymer polypropylene cones, FEA-optimized overmolded thermoplastic foam surrounds, 76-mm (3 in) long-

excursion ten-layer voice coils, high-temperature composite Nomex® formers, dual spiders, 25.2-lb (10.5 kg) ferrite magnet / motor structure, massive center heatsink and oversize pole piece, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*

7 Hz (DIN)

Line-Level Input

RCA (S/E) Left and Right or Sub-Out / LFE or Balanced XLR. From Sub-Out / LFE-Out of preamp / processor or other line-level source.

Line-Level Input Sensitivity

100 mV mono

Line-Level Input Impedance

RCA: 10k ohms; XLR: 20k ohms

The SUB 2's Kilomax Amp Delivers A Truly Monster Power Factor!

We call it Kilomax because when connected to a 240-volt line, SUB 2 delivers a monster 4,500 watts of RMS continuous power and a Frankenstein 9,000 watts of peak power.

Comprehensive Heat Dissipation System: A robust aluminum circuit board is overlaid with insulated metal substrates. Aluminum promotes efficient cooling while the metal substrates increase power density, minimize thermal impedance and conduct heat. Metal substrates also increase the board's durability. Military-spec circuit boards typically require large heatsinks. In this one, however, the aluminum and metal combination allow for a much smaller heatsink.

Power Factor Correction (PFC): Typically found only in the pro audio industry, PFC shapes the line current so that it is sinusoidal and continuous in time. This allows maximum power (95%) to be drawn from the wall and with far less noise. A unit *without* PFC draws only 60 to 70% of available power since the line current is switched on and off by the input rectifier at twice the frequency. Current flows at the peak of the line voltage, effectively choking the line.

No Transformer: For maximum power the output stage is Direct-Connected™ to the power line.

Advanced Output Stage: Our proprietary Class-D output stage increases both switching speed and switching efficiency, steering circulating currents to ultra-fast diodes (ten times faster than conventional Class-D designs).

AC Voltage (See note on Universal Input Power at right)

120v (at 3,000 watts) – 50/60 Hz;
240v (at 4,500 watts) – 50/60 Hz

Height, Width, Depth (dimensions include non-removable grilles and feet)

62.2 cm x 60.4 cm x 57.8 cm
24-1/2 in x 23-3/4 in x 22-3/8 in

Cabinet Diameter (Hexagonal)

60.4 cm / 23-3/4 in

Weight (unpacked)

106 kg / 230 lb each

Finishes

Hand-polished wood veneer:
Cherry, Piano Black, Black Ash

Accessory Included

Paradigm Perfect Bass Kit (PBK)

Opto-Coupled Inputs: Better isolation and lower noise!

Short-Circuit Protection: Reacts within 10 μs!

Paradigm's Digital Signal Processing (DSP): Sophisticated mathematical algorithms shape response, ensuring clean, clear, musical bass even when SUB 2 is playing at very high output. (See graph on back cover.)

5/8" (16 mm) Rigid Aluminum Amplifier Panel: Provides heat-sinking, mechanical rigidity and a lower noise ratio.



Universal Input Power

SUB 2's Universal Input Power feature allows the subwoofer to operate connected to any line voltage between 108 volts and 265 volts. To achieve maximum output, connect the sub to a 240-volt line. (See your Paradigm Dealer for additional information.)

For additional details on this subwoofer, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

AS GOOD AS IT GETS
SIGNATURE SUB 1

“Baby brother it may be, but it still packs
PLENTY OF PUNCH.”

“Fabulous, near-limitless power and depth. Objet d’art styling. I have no hesitation in recommending SUB 1 to anyone hunting for a top-flight woofer. Especially if they like a bit of style to go with their substance,” says Tech Radar’s Adam Rayner.

SUB 1’s dual Ultra-Class-D™ amplifiers deliver 3,400 watts Dynamic Peak Power and 1,700 watts (850 watts per amp) RMS Sustained Power. Six cutting-edge drivers! Massive air movement, massive output, vibration-free! Just like its big brother, SUB 1 is a mover, not a shaker. A glass of water placed on top of the cabinet while SUB 1 is playing at full-on output elicits barely a ripple, courtesy of the Vibration Cancelling Design (see over).



INPUT FACILITIES:

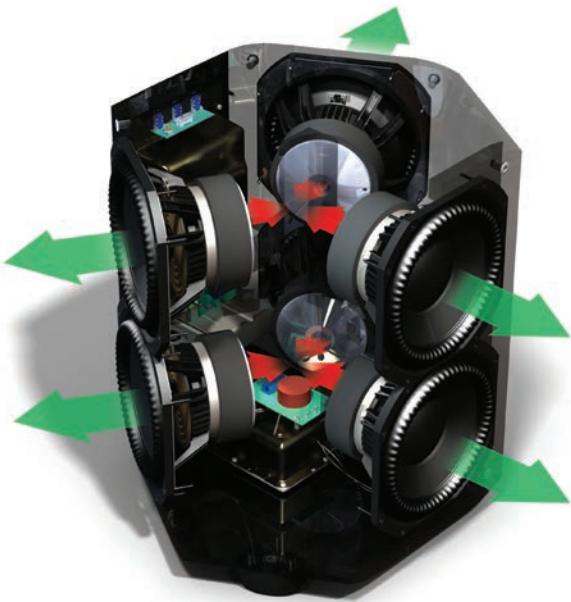
- Low-Level Input – RCA.
- Low-Level Input – Balanced XLR.

CONTROL FACILITIES:

- Auto On/Off
- Trigger On/Off
- Subwoofer Cut-Off with Bypass Option
(Continuously variable 35 Hz – 150 Hz)
- Subwoofer Level Control
- Phase Alignment
(Continuously variable 0° – 180°)
- PBK Interface/USB Port



PBK™
Paradigm Perfect Bass Kit™ Included.
Digital Room Correction system.
Full details on page 1.



Vibration Cancelling Design Architecture:

As in big brother SUB 2, SUB 1's six identical, state-of-the-art balanced drivers are radially aligned inside the cabinet. As opposing forces of equal magnitude, the vibration-reaction forces (see picture above) cancel each other out.

See the video of our Vibration Cancelling architecture in action on Paradigm's YouTube channel. For more details, visit paradigm.com.

BIG POWER. Compact Package.

Two cutting-edge Ultra-Class-D™ amplifiers.

Switching Power Supplies: More than 90% efficiency! Optimized to simultaneously control all six bass drivers. Prodigious total output: 3,400 watts Dynamic Peak Power; 1,700 watts (850 watts each amp) RMS Sustained.

More Power from a Compact Package: Our low-noise, ultra-high-power compact transformer (0.4 lb / 0.18 kg) is ideal for SUB 1's compact cabinet. Unlike the large, heavier transformers in a linear power supply, its ETD-core was developed specifically for applications that deliver very high power from a compact form factor. Highest quality MOSFET transistors, noise-suppression networks and an advanced control circuit result in tremendous current with ultra-quiet operation.

Full-Bridge-Design Output Stage: Operating from split power supply rails, it ensures exceptionally low distortion. High-quality output filter inductors with super efficient toroidal cores, the four high-quality MOSFET transistors on each amp (each carrying 65 amps of continuous current) and a noise suppression network. Not only does this design increase the speed of switching, it also increases switching efficiency.

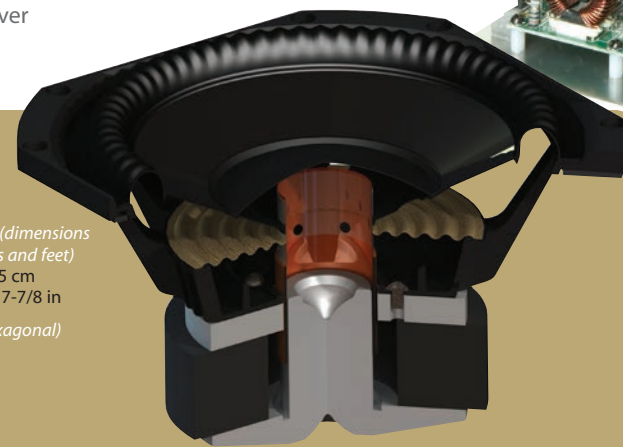
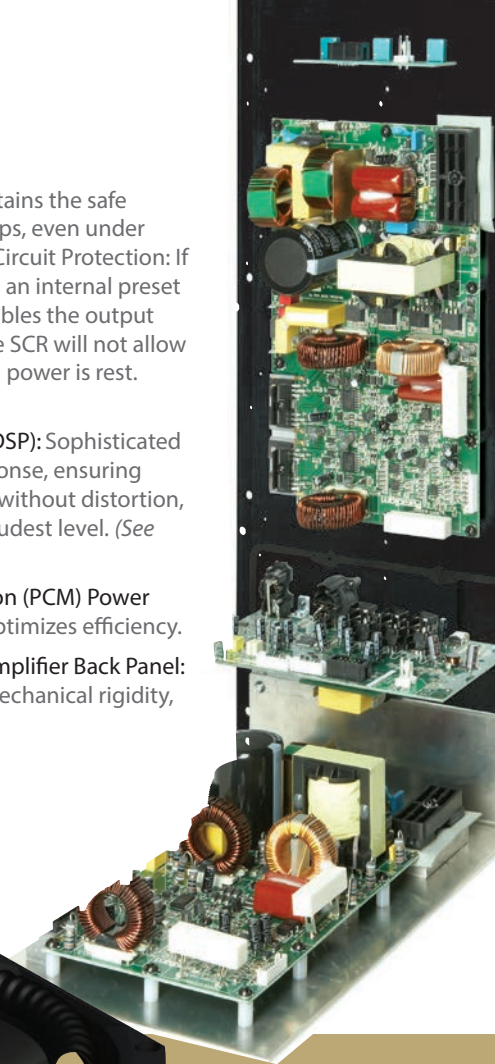
Precision Components and Dual-Sided Military Spec Glass/Epoxy Circuit Boards = reference quality performance with an enviable degree of reliability over the life of the amplifier.

Proprietary Temperature Sensor: Maintains the safe operating temperature of the dual amps, even under extreme conditions. **Advanced Short-Circuit Protection:** If current through the MOSFETs exceeds an internal preset limit, a Silicon Controlled Rectifier disables the output stage. Essentially a latching device, the SCR will not allow the output stage to be reenabled until power is rest. Reaction time is typically within 10 μs.

Paradigm's Digital Signal Processing (DSP): Sophisticated mathematical algorithms "shape" response, ensuring accurate, consistent and musical bass without distortion, even when the sub is playing at the loudest level. (See graph on back cover).

Novel Adaptive Pulse Width Modulation (PCM) Power Processor: Minimizes distortion and optimizes efficiency.

5/8" (16 mm) Ultra-Rigid Aluminum Amplifier Back Panel: Delivers revolutionary heat-sinking, mechanical rigidity, improved isolation and lower noise.



Technical Specs

Design

Hexagonal cabinet with six multiple high-excursion drivers radially aligned. Vibration-Cancelling Design architecture. Built-in Ultra-Class-D™ power amplifier with Power Factor Correction. Sealed enclosure. USB port for PBK equalization.

Amplifier: High-Current Discrete-Output
3,400 watts Dynamic Peak / 1,700 watts RMS Sustained

Amplifier Features

Auto-On / Off, Trigger-On / Off, soft clipping, electrical shorting protection, thermal protection.

Bass Drivers

Six 203-mm (8 in) mineral-filled co-polymer polypropylene cones, overmolded FEA-optimized NLC™ surrounds, 38-mm (1-1/2 in)

long-excursion four-layer voice coils, high-temperature composite Nomex® formers, advanced spiders, 9.2-lb (4.16 kg) hard ferrite magnet / motor structure, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*
12 Hz (DIN)

Line-Level Input

RCA (S/E) Left and Right or Sub-Out / LFE or Balanced XLR. From Sub-Out / LFE-Out of preamp / processor or other line-level source

Line-Level Input Sensitivity
100 mV mono

Line-Level Input Impedance
RCA: 10k ohms, XLR: 20k ohms

Height, Width, Depth (dimensions include removable grilles and feet)

51.6 cm x 50.5 cm x 45.5 cm
20-1/4 in x 19-7/8 in x 17-7/8 in

Cabinet Diameter (Hexagonal)
50.5 cm / 19-7/8 in

Weight (unpacked)
49.4 kg / 109 lb each

Finishes

Hand-polished wood veneer:
Cherry, Piano Black, Black Ash

Accessory Included
Paradigm Perfect Bass Kit™

For additional details on this subwoofer, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

ROCKIN' THE HIGH-END
SUB 12 & SUB 15

Price-to-Performance Ratio
**KNOCKS THE
COMPETITION FLAT!**

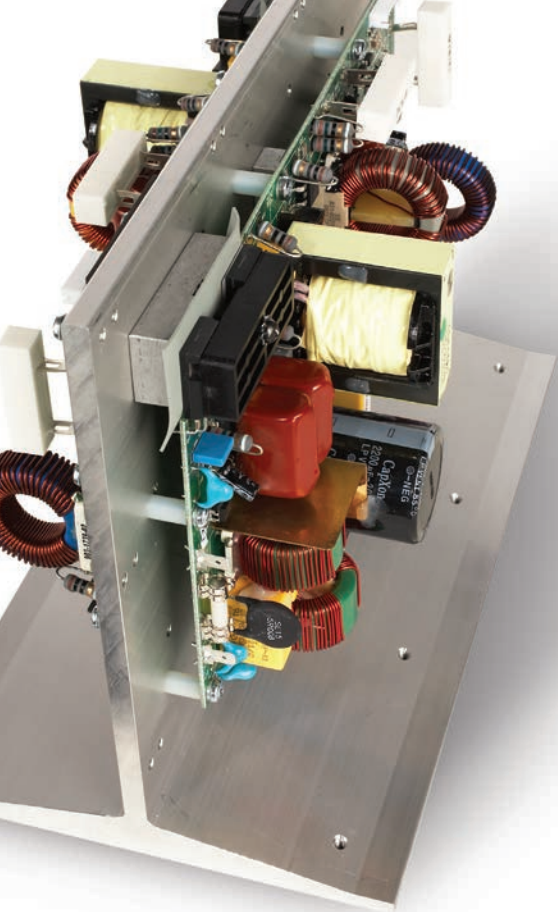


In the audio world, high-end gear has a reputation for being outrageously priced, but don't kid yourself, even the priciest gear can deliver sub par performance. The Price to Performance ratio of a product is particularly sacrosanct to Paradigm, so important that it's been recognized by the industry — Paradigm is the only brand to be voted **#1 Best Price/Value*** twenty-two times. Bottom Line? With SUB 12 and SUB 15, you get a Price to Performance ratio that is out of this world.

More power from a compact form factor without a hint of output or extension sacrificed to keep cabinet size compatible with today's living spaces. A unique dual amplifier/driver configuration allows the subs to play lower, louder and cleaner than any other subs in their price range. A sophisticated switching power supply, a transformer chosen for its ability to promote room-shaking output from a small envelope, a full-bridge output stage for minimal distortion even at high volume levels, reference-quality component parts. It's all here, wrapped in a beautifully finished cabinet. Despite all of this, dollar for dollar, these high-end reference subwoofers still cost less than the competition.



Front: SUB 12
Rear: SUB 15



Small form factor. BIG power.

Dual Ultra-Class-D™ Amplifiers with Switching Power Supplies: More than 90% efficiency! Prodigious output: 3,400 watts of peak power; 1,700 watts (850 watts each amp) of sustained power. The switch-mode power supply benefits from high-quality MOSFET transistors, noise-suppression networks and advanced control circuit. The result is tremendous current with ultra-quiet operation.

Small Package: The low-noise, high-power transformer (0.4 lb / 0.18 kg) boasts an ETD-core developed for applications that require high power from a compact envelope.

Full-Bridge Output Stage: Operates from split power supply rails ensuring extremely low distortion. High-quality output filter inductors feature toroidal cores. The MOSFET transistors carry 65 amps of continuous current. Not only does this design increase the speed of switching, it increases switching efficiency.

Precision Components and Dual-Sided Military Spec (FR-4 rated) Glass/Epoxy Circuit Boards: 'Reference' quality performance and long-term reliability.

Advanced Temperature Sensors: Reliable even under extreme operating conditions.

Advanced Short-Circuit Protection: If current through the MOSFETs exceeds a preset limit, the Silicon Controlled Rectifier disables the output stage. Essentially a latching device, it will not allow the output stage to be re-enabled until power is reset. Reaction time is typically within 10 micro seconds.

Novel Adaptive PWM (Pulse Width Modulation) Power Processor: Minimizes distortion and optimizes efficiency. While conventional Class-D designs have very low power supply rejection, Paradigm's design inherently rejects variations in the power supply.

Digital Signal Processing (DSP): Sophisticated mathematical algorithms 'shape' frequency response, ensuring clean, clear, musical bass without distortion, even when the subs are playing at very high output. *(See graph on back cover.)*

*Inside Track annual independent nationwide survey of consumer electronics specialist retailers and custom installers.



INPUT FACILITIES:

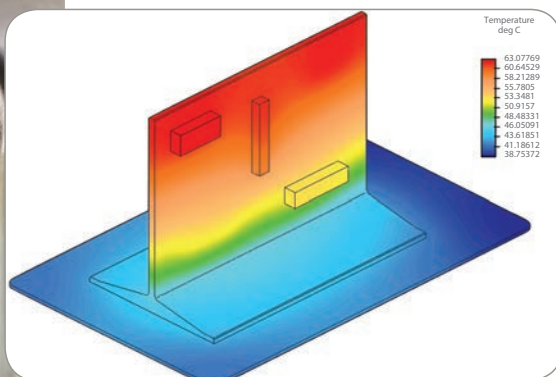
Line-Level Input – RCA.
Line-Level Input – Balanced XLR.

CONTROL FACILITIES:

Auto On/Off.
Trigger On/Off.
Subwoofer Cut-Off with Bypass Option.
(Continuously variable 35 Hz – 150 Hz)
Subwoofer Level Control.
Phase Alignment.
(Continuously variable 0° – 180°)
USB Port/PBK Interface.



Cross-Cut Tunnel Bracing: Resonance reduction is extreme. Cabinets are a veneered medium density fibreboard (MDF) including a sturdy 1" (25 mm) solid front baffle. The thickness of the interior bracing and cross-cuts were optimized using Finite Element Analysis). Visit paradigm.com for more info.



Fully sealed preamplifier section

Optimizing the Design

Less heat, more power, no noise! It's one thing to house two 850-watt Ultra-Class-D™ amplifiers in a single cabinet, it's quite another to ensure that all of that power is harnessed for efficient delivery, without a hailstorm of unwanted sonic side effects. Our sophisticated R&D facilities held the answer.

In-house, we enjoy a number of highly advanced tools for component design. One of these is Finite Element Analysis (FEA), an invaluable process when monitoring a design for heat dissipation or performing material stress analyses. Using FEA, the 'T-shape' center aluminum extrusion to which each amplifier is attached was optimized to obtain exceptional heat dissipation (see diagram on left). An FEA modal frequency analysis ensured the entire assembly was free of unwanted resonances and vibrations. Even the correct size and thickness (3.2 mm) of the amp panel was calculated to obtain the optimal heat-dissipation-to-size ratio. Finally, a fully sealed preamp board cover (inset bottom left) eliminated the possibility of air leaks.

At left: Close-up of the high-grade 7-mm thick 'T-extrusion'. For more information on FEA, see our 'All About Sound' brochure in the 'Product Support' section of the website at paradigm.com.

Technical Specs SUB 12 & SUB 15

Design

Single high-excursion driver, sealed enclosures, patented built-in Ultra-Class-D™ power amplifiers, USB port for PBK equalization.

Amplifier: High-Current, Discrete Output

3,400 watts Dynamic Peak / 1,700 watts RMS.

Amplifier Features

Auto-On / Off, Trigger-On / Off, soft clipping, electrical shorting protection, thermal protection.

Bass Driver

SUB 12: 305-mm (12 in) driver

SUB 15: 380-mm (15 in) driver

RCR™ mineral-filled co-polymer polypropylene cones with RCR™ resonance-control ribbing; FEA-optimized multi-layer polyurethane-composite elliptical surrounds, 76-mm (3 in) dual-aluminum high-temperature multi-layer voice coils wound on high-temperature Kapton™ formers; dual oversize Nomex™ spiders; large aluminum shorting rings; 35 lb (15.8 kg) ceramic (hard ferrite) magnet structures; AVS™ die-cast heatsink chassis.

Low-Frequency Extension*

SUB 12: 16 Hz (DIN)

SUB 15: 12 Hz (DIN)

Subwoofer Cut-Off Frequency

Variable 35 Hz – 150 Hz; Bypass Option

Sub / Sat Phase Alignment

Variable 0° – 180°

Line-Level Input

RCA (S/E) Left and Right or Sub-Out / LFE or Balanced XLR. From Sub-Out / LFE-Out of preamp/processor or other line-level source

Line-Level Input Sensitivity

100 mV mono

Line-Level Input Impedance

RCA: 10k ohms; XLR: 20k ohms

Height, Width, Depth (height includes removable grilles and feet)

SUB 12: 44.3 cm x 40.7 cm x 54.6 cm

17-7/16 in x 16 in x 21-1/2 in

SUB 15: 49.5 cm x 49.5 cm x 55.9 cm

19-1/2 in x 19-1/2 in x 22 in

Weight (unpacked)

SUB 12: 39.9 kg / 88 lb each

SUB 15: 46.7 kg / 103 lb each

Finishes:

Cherry, Rosenut, Piano Black, Black Ash

Accessory (sold separately)

Paradigm Perfect Bass Kit™ (PBK)



For additional details on these subwoofers, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.



Two-part low-profile "i-beam" cone construction. 1/2" split voice coil construction. Oppositely wound turns on coils eliminate motor non-linearity.

ROCKIN' THE HIGH-END
REFERENCE SEISMIC 110

The alpha dog of cool.
BASS OFF THE LEASH!

"Despite its adorable good looks, Seismic 110 boasts one bodacious bark and just as big a bite," says Dennis Burger, of *Home Entertainment*.¹ No off the shelf parts! Components and amp work together to ensure absurdly high power and an extraordinary level of stability. A superb collaboration between industrials, mechanics, electronics and acoustics. Seismic 110 is top dog of compact industrial design subwoofers. Plays down to 18 Hz: "an unbelievably deep voice for such a petite frame."² The switching power supply offers more than 90% efficiency and a split voice coil promotes 2" of cone travel with vanishing low levels of distortion. To ensure EMI and shock protection the amp is mounted to the amp plate and a preamp cover eliminates air leaks that dilute amp power. Finally, Paradigm's Digital Signal Processing ensures that no matter how rowdy the pup plays, sound remains clear, clean and musical.

INPUT FACILITIES:

- Line-Level: RCA
- Line-Level: Balanced XLR

CONTROL FACILITIES:

- Auto On/Off
- Trigger On/Off
- Subwoofer Level
- Subwoofer Cut-Off Frequency with Bypass
(Continuously variable 35 Hz to 150 Hz)
- Sub/Sat Phase Alignment
(Continuously variable 0° to 180°)
- PBK/USB Port Interface

PBK
READY

Optional Paradigm Perfect Bass Kit™
Digital Room Correction system.
Full details on page 1.



Technical Specs

Design
Single high-excursion driver, acoustic suspension cabinet, patented built-in Ultra-Class-D™ amplifier, USB port for PBK equalization.

Amplifier: High-Current, Discrete Output
1,700 watts Dynamic Peak / 850 watts RMS Sustained

Amplifier Design Features
Auto-On/Off, Trigger-On/Off, soft clipping, thermal monitoring, electrical shorting protection

Bass Driver
254-mm (10 in) high-excursion mineral-filled co-polymer polypropylene cone with RCR™ resonance-control ribs on surround, inverted overmolded Santoprene® corrugated surround, split voice coil design (60-mm / 2-1/2 in coil lengths; coils rated to 450° F / 232° C), Apical™ formers, dual Nomex™ spiders, 12-mm / 1/2 in thick top plates, ferrite/ceramic magnet structure, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*
18 Hz (DIN)

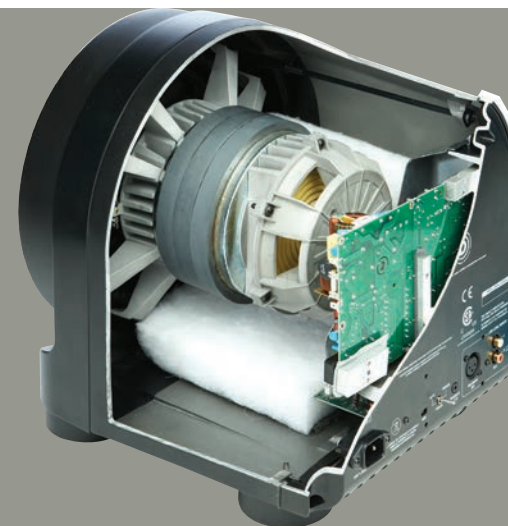
Line-Level Inputs
RCA (S/E) Left and Right or Sub-Out / LFE or Balanced XLR. From Sub-Out / LFE-Out of receiver / processor or other line-level source.

Height, Width, Depth (including feet)
34.3 cm x 29.8 cm x 32.0 cm
13-1/2 in x 11-3/4 in x 12-9/16 in

Weight (unpacked)
37 lb / 16.8 kg

Accessory (sold separately)
Paradigm Perfect Bass Kit™ (PBK)

Finish
Satin Black



For comprehensive details on this subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

ROCKIN' THE HIGH-END
REFERENCE MILLENNIA SUB

Flexible. Energized. Deep.
LOW-FREQUENCY YOGA.



More positioning options than a swami teaching yoga in an ashram (see left). Bass that will rock your soul to the core.

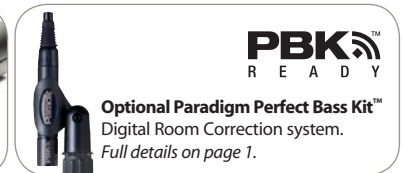
Dual woofers fire in opposite directions cancelling sound-compromising vibrations. Just shy of an inch of cone travel. Monocoque cone design: the outer skin of the cone bears the brunt of motion stress, reducing any opportunity for sound compromising distortion. The braced, overmolded dustcap design contributes to superb frequency response! Ultra-Class-D amplifier ... yep, it's there! Proprietary Digital Signal Processing in the amp — no matter how loud the sub plays, sound remains clean, clear and musical!

INPUT FACILITIES:

Line-Level / LFE
 Wireless Ready

CONTROL FACILITIES:

Auto On/Off
 Subwoofer Level
 Subwoofer Cut-Off Frequency
(Continuously variable 50 Hz to 150 Hz);
 Bypass Option
 Sub/Sat Phase Alignment
(Continuously variable 0° to 180°)
 PBK Interface / USB Port



Technical Specs

Design
 Vibration-cancelling, dual bipolar drivers, monocoque cone design, acoustic suspension cabinet. Wireless option with wireless PT-1 transmitter (sold separately). USB port for PBK equalization.

Amplifier: High-Current, Discrete Output
 900 watts Dynamic Peak / 300 watts RMS Sustained

Amplifier Design Features
 Auto-On/Off, soft clipping, thermal monitoring

Bass Driver
 Two 355-mm x 76-mm (14 in x 3 in) high-excursion reinforced bipolar co-polymer polypropylene cones, unique monocoque cone design, overmolded, corrugated Santoprene® surround, multi-layer high-temperature aluminum voice coil (rated to 450° F / 232° C), Apical™ former, Nomex® spider, 10 lb / 4.5 kg ferrite/ceramic magnet, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*
 21 Hz (DIN)

Line-Level / LFE Inputs
 Two RCA (L/R-Mono) for L/R

Height, Width, Depth
(horizontal, including feet):
 13.7 cm x 46.5 cm x 35.5 cm
 5-1/2 in x 18-3/8 in x 14 in
(vertical, including stand; stand width is 17.9 cm / 7 in):
 38.3 cm x 12.5 cm x 46.5 cm
 15 in x 4-7/8 in x 18-3/8 in
On the wall, including bracket:
 35.6 cm x 46.5 cm x 15.0 cm
 14 in x 18-3/8 in x 5-7/8 in

Weight (unpacked, not including feet, stand and on-wall bracket)
 24 lb / 10.9 kg

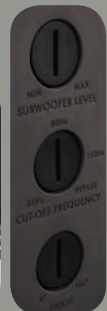
Weight (unpacked, including stand and hardware)
 24.5 lb / 11.2 kg

Accessories (sold separately)
 Wireless PT-1 Transmitter
 Paradigm Perfect Bass Kit™ (PBK)

Finish
 Satin Black, Satin White



Unique shape of 5-mm thick die-cast aluminum cabinet allows us room to tuck in all of the crazy state-of-the-art techy stuff you love!



For comprehensive details on this subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

AFFORDABLE AUDIOPHILE
PARADIGM SE SUB

Reference & Classic Collections combine!
A SPECIAL EDITION.



Tight, musical delivery with superb extension and richly detailed low-frequency nuances. Heightened movie drama. Enhance the suspense! Movie special effects will take your breath away when you hear them through the compact SE SUB.

SE = Special Edition. This is a one-of-a-kind offering that includes a well-priced mix of aesthetics and competitive performance. Award-winning technology from our Classic Collection and high-end Reference Collection ... the best of both loudspeaker worlds with a heavy emphasis on down-to-earth affordability. High quality components, a high-end cabinet with a high quality gloss finish at this price? It's virtually unheard of in any other brand!

INPUT FACILITIES:
 Line-Level / LFE

CONTROL FACILITIES:

- Auto On/Off
- Subwoofer Level
- Subwoofer Cut-Off Frequency
(Continuously variable 35 Hz to 150 Hz);
- Bypass Option
- Sub/Sat Phase Alignment
(Continuously variable 0° to 180°)
- PBK/USB Port Interface

Technical Specs

Design
 Single high-excursion driver with configurable driver — down or front firing, sealed enclosure, patented built-in Ultra-Class-D amplifier, USB port for PBK equalization.

Amplifier: High-Current, Discrete Output
 900 watts Dynamic Peak / 300 watts RMS Sustained

Amplifier Design Features
 Auto-On/Off, soft clipping

Bass Driver
 254-mm (10 in) driver. CAP™ carbon aramid-fiber polypropylene cone, multi-layer copper-clad high-temperature 33-mm (1-3/8 in) 4-layer aluminum voice coil, Nomex® spider, ferrite/ceramic magnet structure, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*
 24 Hz (DIN)

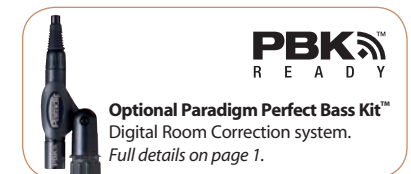
Line-Level Input
 RCA (L/R-Mono) for L/R Line-Out or Sub-Out / LFE-Out of receiver, processor or other line-level source

Height, Width, Depth *(height includes feet)*
 29.1 cm x 27.9 cm x 27.9 cm
 11-1/2 in x 11 in x 11 in

Weight *(unpacked)*
 19.3 lb / 8.7 kg each

Accessory *(sold separately)*
 Paradigm Perfect Bass Kit™ (PBK)

Finish
 Black Gloss



For additional details on this subwoofer, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

PARADIGM MONITOR SERIES 7 SUBWOOFERS

Deep space bass GOES WIRELESS!

Living room, family room, bedroom, condo or dorm, there's a Monitor subwoofer for every space. The unique NLC™ non-limiting corrugated surrounds on woofers help move huge volumes of air for bass so loud, so deep and so realistic, the cat will be running for cover. Digital Signal Processing ensures clean, clear musical performance without distortion, even at very high output. At less than a cubic foot, Monitor SUB 8 is our smallest subwoofer. We've shown it here sitting next to a Blu-ray disc (*see below*) to give you an idea of its relative size. But don't be fooled! SUB 8 is a hardworking little powerhouse, despite its diminutive demeanor, it packs one heck of a punch.

Neat freaks! Pay attention! If you don't want unsightly wires hangin' around the room, go wireless with Paradigm's optional PT-1 Wireless Transmitter (*sold separately*).

INPUT FACILITIES:

Line-Level / LFE
Wireless Ready

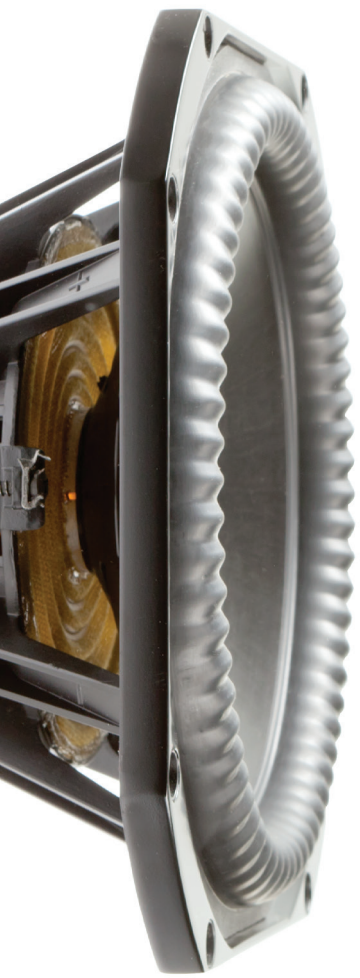
CONTROL FACILITIES:

Auto On/Off
Subwoofer Level
Subwoofer Cut-Off Frequency
(Continuously variable 50 Hz to 150 Hz);
Bypass Option
Sub/Sat Phase Alignment
(Continuously variable 0° to 180°)
PBK Interface / USB Port

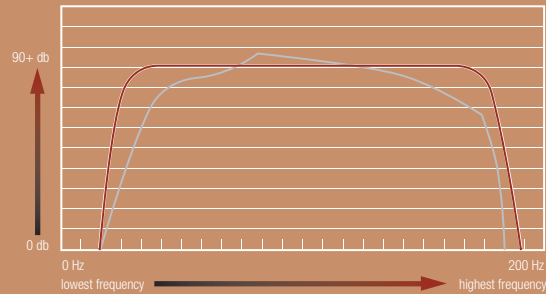
Monitor SUB 8



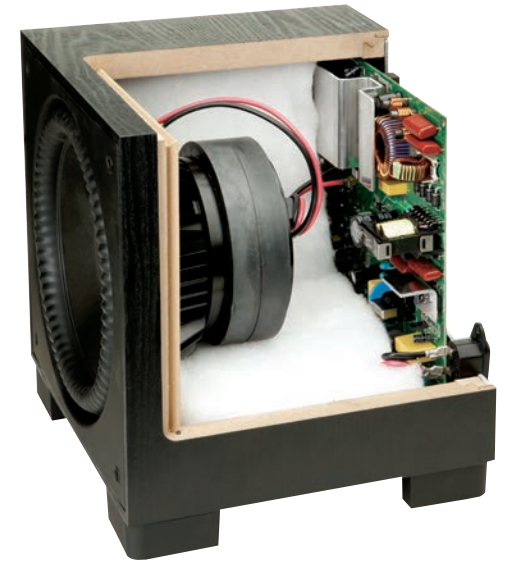
Front: Monitor SUB 12
Back (right): Monitor SUB 10
Back (left): Monitor SUB 8



Paradigm's Proprietary Digital Signal Processing (DSP)



Sophisticated algorithms 'shape' frequency response, ensuring accurate, consistent and musical bass performance without audible distortion, even when the subs are playing at loud levels.



Acoustically Inert MDF Enclosures eliminate unwanted panel resonances and vibrations for clean, tight, extremely accurate bass performance.



Optional PT-1 Wireless Transmitter (see page 21)

Optional Paradigm Perfect Bass Kit™
Digital Room Correction system.
Full details on page 1.

Technical Specs

Design

Single-driver, acoustic suspension, built-in Ultra-Class-D™ amplifier. Wireless option requires PT-1 transmitter (sold separately), USB port for PBK equalization, removable grilles.

Amplifier: High-Current, Discrete Output

900 watts Dynamic Peak / 300 watts RMS Sustained

Amplifier Design Features

Auto-On/Off, soft clipping, thermal protection

Bass Driver

MONITOR SUB 12: 305-mm (12 in) driver
MONITOR SUB 10: 254-mm (10 in) driver
MONITOR SUB 8: 210-mm (8 in) driver

Mineral-filled co-polymer polypropylene cones, patented NLC™ non-limiting corrugated Santoprene™ surrounds, multi-layer copper-clad high-temperature aluminum voice coils, Nomex™ spiders, ferrite/ceramic magnet structures, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*

SUB 12: 16 Hz (DIN)
SUB 10: 17 Hz (DIN)
SUB 8: 19 Hz (DIN)

Line-Level / LFE Inputs

Two RCA (L/R-Mono) for L/R

Height, Width, Depth (height includes feet; depth includes grille)

MONITOR SUB 12:
38.5 cm x 33.0 cm x 36.8 cm
15-1/8 in x 13 in x 14-1/2 in

MONITOR SUB 10:
33.0 cm x 28.3 cm x 32.4 cm
13 in x 11-1/8 in x 12-3/4 in

MONITOR SUB 8:
27.2 cm x 26.2 cm x 28.3 cm
10-11/16 in x 10-5/16 in x 11-1/8 in

Weight (unpacked)

MONITOR SUB 12: 41 lb / 18.6 kg each
MONITOR SUB 10: 30 lb / 13.6 kg each
MONITOR SUB 8: 25 lb / 9.1 kg each

Accessories (sold separately)

Wireless PT-1 Transmitter
Paradigm Perfect Bass Kit™ (PBK)

Finish

Black Ash



For additional details on these subwoofers, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

AFFORDABLE AUDIOPHILE
PARADIGM ULTRACUBE SUBWOOFERS

Compact. Musical. Down-Firing.
DENIZENS OF THE DEEP



Front: UltraCube 12
 Back: UltraCube 10

Musical finesse with SPL levels that rival full-size subs! When it comes to compact subwoofer design UltraCubes break new ground. From advanced Class-D amps to high-power drivers, everything is optimized for power, impact and extraordinary refinement at this price level.

Digital Signal Processing ensures clean, clear musical performance without distortion even at high output. Dual passive radiator design enhances bass performance.

Even when a sub is perfectly placed, room dimensions, dead spots, even furniture can have a negative impact on bass quality, but don't worry. Put your UltraCube where it looks best and in minutes, Paradigm's Perfect Bass Kit (sold separately) will dial in perfect bass.

INPUT FACILITIES:

Line-Level / LFE

CONTROL FACILITIES:

- Auto On/Off
- Subwoofer Level
- Subwoofer Cut-Off Frequency
(Continuously variable 40 Hz to 150 Hz);
- Sub/Sat Phase Alignment
(Continuously variable 0° to 180°)
- PBK Interface / USB Port

**PBK™
 R E A D Y**

Optional Paradigm Perfect Bass Kit™
 Digital Room Correction system.
Full details on page 1.

Technical Specs *(all models, unless specified)*

Design
 Single high-excursion down-firing driver, dual passive radiators, built-in advanced Paradigm Class-D™ amplifier with Digital Signal Processing, USB port for PBK equalization.

Amplifier: High-Current, Discrete Output
 1,950 watts Dynamic Peak / 650 watts RMS Sustained

Amplifier Design Features
 Auto-On/Off, soft clipping, thermal and electrical shorting protection

Bass Driver
ULTRACUBE 12: 305-mm (12 in) driver
ULTRACUBE 10: 254-mm (10 in) driver
 RCR™ resonance-control ribbing, mineral-filled co-polymer polypropylene cones, multi-layer high-temperature aluminum voice coils, dual Nomex™ spiders, ferrite/ceramic magnet structures, AVS™ die-cast heatsink chassis.

ULTRACUBE 12: 19 Hz (DIN)
ULTRACUBE 10: 22 Hz (DIN)

Line-Level / LFE Inputs
 RCA (L/R-Mono) for L/R

Height, Width, Depth *(heights include feet)*
ULTRACUBE 12: 38.1 cm x 35.6 cm x 35.6 cm
 15 in x 14 in x 14 in

ULTRACUBE 10: 32.8 cm x 29.1 cm x 29.1 cm
 12-15/16 in x 11-1/2 in x 11-1/2 in

Weight *(unpacked)*
ULTRACUBE 12: 36 lb / 16.3 kg each
ULTRACUBE 10: 29 lb / 13.3 kg each

Accessory *(sold separately)*
 Paradigm Perfect Bass Kit™ (PBK)

Finish
 Black Ash



Acoustically Inert MDF Enclosures eliminate unwanted panel resonances and vibrations for clean, tight, extremely accurate bass performance.



For comprehensive details on each subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

AFFORDABLE AUDIOPHILE
PARADIGM DSP SUBWOOFERS

Sometimes, nothing else will do but ...
A REALLY BIG SUB.



Front: DSP-3200
Back: DSP-3100

Not everyone wants a subwoofer on display, in fact, not everyone even has space for a big sub in the room. But sometimes, somebody somewhere craves a big sub. They don't want to compromise, they want big! DSP subwoofers are designed with that in mind. Having said that, front-firing and front ported, they're not so big that they can't play hide and seek (see below right where our DSP-3200, with driver and ports firing forward, is hidden in a cabinet).

DSP subwoofers also feature Digital Signal Processing: Even when the subs are playing at loud levels, our sophisticated mathematical algorithms shape frequency response to ensure not a hint of distortion shows up. Bass is clean, clear and musical.

With our DSP subs, there's nothing to lose and everything to gain (pardon the pun!).

Technical Specs *(all models, unless specified)*

Design

Single high-excursion bass-reflex driver, dual low-turbulence front ports, built-in advanced Class-D™ amplifier with Digital Signal Processing, USB port for PBK equalization. Removable SVS™ slotted ventilation system grilles.

Amplifier: High-Current, Discrete Output

DSP-3200: 900 watts Dynamic Peak / 300 watts RMS Sustained
DSP-3100: 600 watts Dynamic Peak / 200 watts RMS Sustained

Amplifier Design Features

Auto-On/Off, soft clipping

Bass Driver

DSP-3200: 305-mm (12 in) driver
DSP-3100: 254-mm (10 in) driver

CAP™ carbon-aramid fiber co-polymer polypropylene cones, multi-layer high-temperature 50-mm (2 in) 4-layer bifilar aluminum voice coils, dual Nomex® spiders, ferrite/ceramic magnet structures, AVS™ die-cast heatsink chassis.

Low-Frequency Extension*

DSP-3200: 19 Hz (DIN)
DSP-3100: 22 Hz (DIN)

Line-Level / LFE Inputs

Two RCA (L/R-Mono) for L/R

Height, Width, Depth *(height includes feet; depth includes grille)*

DSP-3200: 46.4 cm x 35.6 cm x 49.5 cm
18-1/4 in x 14 in x 19-1/2 in

DSP-3100: 41.3 cm x 31.1 cm x 42.5 cm
16-1/4 in x 12-1/4 in x 16-3/4 in

Weight *(unpacked)*

DSP-3200: 54 lb / 24.5 kg each
DSP-3100: 40 lb / 18.2 kg each

Accessory *(sold separately)*

Paradigm Perfect Bass Kit™ (PBK)

Finish

Black Ash



Discrete Installation

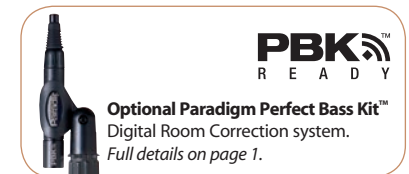
A big sub can still play hide and seek. SVS™ slot-ventilation system ensures efficient heat dissipation.

INPUT FACILITIES:

Line-Level / LFE

CONTROL FACILITIES:

- Auto On/Off
- Subwoofer Level
- Subwoofer Cut-Off Frequency
(Continuously variable 35 Hz to 150 Hz)
- Bypass Option
- Sub/Sat Phase Alignment Switch (0° or 180°)
- PBK Interface / USB Port



Optional Paradigm Perfect Bass Kit™
Digital Room Correction system.
Full details on page 1.



For comprehensive details on each subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.



Front: PDR-W100
Back: PDR-80

AFFORDABLE AUDIOPHILE
PARADIGM PDR SUBWOOFERS

Budget-price. High-performance.
EXTRAORDINARY VALUE!

Superb definition and deep bass impact. The PDR's high-performance designs use built-in amplifiers with high-current output and high-excursion drivers to deliver bass performance that is truly extraordinary for the price — deep, clean and clear with loads of impact. The lifestyle look simply add to the reasons why they're the best-selling budget subs.

LOOK MA. NO WIRES!

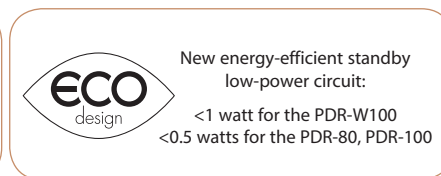
For those annoyed by cable clutter or unsightly wiring, PDR-W100 is a **wireless** option that comes with a wireless transmitter (details, below right).

INPUT FACILITIES:

Line-Level / LFE
Wireless Option with PDR-W100

CONTROL FACILITIES:

Subwoofer Level
Subwoofer Cut-Off Frequency
(Continuously variable 35 Hz to 150 Hz);
Bypass Option
Sub/Sat Phase Alignment Switch (0° or 180°)



Technical Specs (all models, unless specified)

Design

Single driver, bass reflex, built-in Paradigm amplifier, rear low-turbulence ports, removable grilles. Wireless option available with PDR-W100 with wireless transmitter included.

Amplifier: High-Current, Discrete Output

PDR-100: 360 watts Dynamic Peak / 120 watts RMS Sustained
PDR-W100: 360 watts Dynamic Peak / 120 watts RMS Sustained
PDR-80: 300 watts Dynamic Peak / 100 watts RMS Sustained

Amplifier Design Features

Auto-On/Off, standby, soft clipping

Bass Driver

PDR-100: 254-mm (10 in) driver
PDR-W100: 254-mm (10 in) driver
PDR-80: 210-mm (8 in) driver

Reinforced polymer composite cones. High-temperature aluminum voice coils, Nomex spiders, ceramic/ferrite magnet structures.

Low-Frequency Extension*

PDR-100: 29 Hz (DIN)
PDR-W100: 29 Hz (DIN)
PDR-80: 32 Hz (DIN)

Line-Level / LFE Inputs

Two RCA (L/R-Mono) for L/R

Height, Width, Depth (height includes feet; depth includes grille)

PDR 100: 39.4 cm x 33.3 cm x 38.7 cm
15-1/2 in x 13-1/8 in x 15-1/4 in
PDR-W100: 39.4 cm x 33.3 cm x 38.7 cm
15-1/2 in x 13-1/8 in x 15-1/4 in
PDR 80: 35.6 cm x 30.5 cm x 36.2 cm
14 in x 12 in x 14-3/8 in

Weight (unpacked)

PDR 100: 29 lb / 13.2 kg each
PDR-W100: 29 lb / 13.2 kg each
PDR 80: 24 lb / 10.9 kg each

Wireless Transmitter

Included with PDR-W100 only.

Finish

Black Ash



GO WIRELESS! PDR-W100

- Comes with wireless transmitter
- 50' / 15m range.
- Digital self-sensing signal adjusts for best wireless connection.
- Monitors integrity of data stream.

For comprehensive details on this subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

AFFORDABLE AUDIOPHILE
PARADIGM CINEMA SUB

Blockbuster bass from a mini **MUSIC & MOVIE MOGUL**



Can be positioned gloss side up

Cinema: For when size and sound matter. While it's true that there are tiny satellite speakers aided by small subwoofers that can be 'hidden' in many living spaces, when it comes to audiophile sound, these systems rarely deliver. Cinema Sub is a sub with a difference ...

Cinema Sub delivers a blockbuster music and home theater performance that brings movies to life and makes music sound 'live'. As Dennis Burger, of *Residential Systems* says in his review of the Cinema system, "... incredibly dynamic, the sort of dynamics you just don't expect at this size and price."

INPUT FACILITIES:
 Line-Level / LFE

CONTROL FACILITIES:
 Auto On/Off
 Subwoofer Cut-Off Frequency
(Continuously variable 35 Hz to 150 Hz);
 Bypass option
 Sub/Sat Phase Alignment Switch (0° or 180°)



High-Power Discrete Output Amplifier:
 300 watts Dynamic Peak power. Dual-ported design helps deliver even, articulate bass without boom or overhang.

Technical Specs

Design
 Single driver, bass reflex, low-turbulence port, built-in amplifier.

Amplifier: High-Current, Discrete Output
 300 watts Dynamic Peak / 100 watts RMS Sustained

Amplifier Design Features
 Auto-On/Off, Standby, Soft Clipping

Bass Driver
 210-mm (8 in) driver with reinforced polymer composite cone, 38-mm (1-1/2") high-temperature copper-clad aluminum-wire voice coil, Nomex® spider, ferrite/ceramic magnet structure.

Low-Frequency Extension*
 32 Hz (DIN)

Line-Level / LFE Inputs
 Two RCA (L/R-Mono) for L/R lineout or Sub-Out / LFE-Out of receiver / processor or other line-level source.

Height, Width, Depth *(height includes feet)*
 34.2 cm x 32.2 cm x 32.2 cm /
 13-7/16 in x 12-11/16 in x 12-11/16 in

Weight *(unpacked)*
 21.4 lb / 9.7 kg each

Finish
 Black Gloss

For comprehensive details on this subwoofer including an overview, downloads and product reviews visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

CUSTOM



ROCKIN' THE HIGH-END REFERENCE RVC-12SQ SUBWOOFER

Rock your world, not your walls. NO FLOOR SPACE REQUIRED!

Can be spec'd for multiple dwelling unit applications.

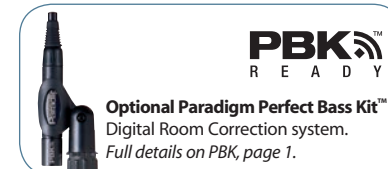
Conventional in-wall subs excite wall vibrations through a reactive force opposite to that created by movement of the voice coil. In the RVC-12SQ's unique vibration-cancelling design, twin 14" x 4" state-of-the-art drivers fire in-phase, but in opposite directions (see left).

The RVC-12SQ's one-piece die-cast chassis and immovable MDF mounting system are designed to withstand every decibel of sound generated by this high-output design. Like a dog off the leash, the RVC-12SQ is free to dig deeper for breathtaking levels of clean, articulate, soul-stirring bass.

The unit's impedance matching switch allows it to be used with both our X-300 and our X-850 power amplifiers.



Powered by X-850 or X-300 Power Amps
(sold separately), details page 22.



**PBKTM
R E A D Y**
Optional Paradigm Perfect Bass KitTM
Digital Room Correction system.
Full details on PBK, page 1.

Technical Specs

Design

Vibration-cancelling in-wall, dual high-excursion drivers, die-cast chassis with immovable MDF mounting frame.

REQUIRED! Matching X Series Amplifier:

X-850 Amplifier powers 1 or 2 RVC-12SQ subwoofers.

X-300 Amplifier powers 1 RVC-12SQ subwoofer.

(X Series amplifiers sold separately.)

Bass Drivers

Two 355-mm x 102-mm (14 in x 4 in) side-mounted mineral-filled co-polymer polypropylene cones. Pleated LCSTM linear corrugated surround with long-travel suspension, multi-layer high-temperature copper-clad voice coil, anodized aluminum former, dual Nomex[®] cloth spiders, ceramic/ferrite magnet structure. One-piece high-pressure ultra-rigid die-cast chassis.

Low-Frequency Extension*

17 Hz (DIN)

External Dimensions (H x W):

45.1 cm x 34.9 cm
17-3/4 in x 13-3/4 in

Weight (unpacked)

14.3 lb / 6.5 kg

Accessories (sold separately)

BX-12SQ Backbox;
Paradigm Perfect Bass KitTM (PBK)
to be used with amplifier.

Finish

White, Paintable



Optional BX-12SQ Backbox designed to maximize output through low-noise precision ports. In-wall performance is notched up when the box is used. Mounts into a 2 x 4" bay.

For additional details on this subwoofer, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

CUSTOM



Front: PCS-80R
Back: PCS-82SQ

AFFORDABLE AUDIOPHILE PARADIGM PCS SERIES SUBWOOFERS

A dynamic duo of deep bass. A MINIMALIST AESTHETIC

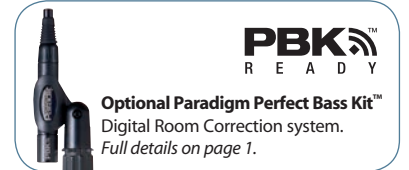
Can be spec'd for multiple dwelling
unit applications.

Designed with all the attention to detail and the same high-quality component parts as our freestanding Paradigm subwoofers!

A minimum of two PCS subwoofers must be used in each system. Using two or more subwoofers randomize standing waves in the room so that bass is distributed uniformly. It also ensures minimal distortion at high output levels. For the full story on using multiple subwoofers, turn to the last page of the catalogue.



X-300 Power Amplifier. Powers two, three or four PCS subwoofers (details on page 22).



Optional Paradigm Perfect Bass Kit™
Digital Room Correction system.
Full details on page 1.



Optional BX-10R and BX-82SQ Backboxes
fireproof backboxes (sold separately)

Technical Specs

Design

PCS-80R: Single high-excursion driver, combination die-cast and GRIP™ glass-reinforced injection-molded polymer chassis/mounting bracket.

PCS-82SQ: Dual high-excursion drivers, GRIP™ glass-reinforced injection-molded polymer chassis/mounting bracket.

REQUIRED! Matching X 300 Amplifier:

Powers up to four PCS-80R or two PCS-82SQ subwoofers. (X Series amplifier sold separately.)

Bass Drivers

PCS-80R: 305-mm (8 in) driver

PCS-82SQ: Two 305-mm (8 in) drivers

CFP™ carbon-fibre polypropylene cones, high-temperature copper-clad voice coils wound on polyamide formers, low-profile, overmolded TPR™ thermoplastic rubber surrounds, ceramic/ferrite magnet structures.

Chassis and Mounting Brackets

PCS-80R: Rigid combination of die-cast aluminum and high-strength GRIP™ glass-reinforced injection-molded chassis and mounting bracket. Easy 1,2,3 installation.

PCS-82SQ: High-strength GRIP™ glass-reinforced injection-molded chassis and mounting bracket. Easy 1,2,3 installation.

Low-Frequency Extension*

PCS-80R: 19 Hz (DIN)

PCS-82SQ: 19 Hz (DIN)

Product Dimensions (D or HxW):

PCS-80R: 29.6 cm / 11-10/16 in

PCS-82SQ: 42.5 cm x 23.5 cm / 16-3/4 in x 9-1/4 in

Weight (unpacked)

PCS-80R: 2.6 kg / 5.2 lb

PCS-82SQ: 4 kg / 8.8 lb

Accessories (sold separately)

PCS-80R: PB-10R preconstruction bracket with retrofit;
BX-10R Backbox

PCS-82SQ: PB-8x16 preconstruction bracket with retrofit;
BX-82SQ Backbox

Finish

White, paintable.

For additional details on these subwoofers, including an overview, downloads and industry product reviews, please visit paradigm.com.

*DIN 45 500. Indicates -3 dB in a typical listening room.

ACCESSORIES

WIRELESS TRANSMITTER

PT-1



Our PT-1 wireless subwoofer transmitter is a 2.4 GHz digital design that automatically adjusts for best wireless connection while constantly monitoring the integrity of the data stream. It features a fast auto-reconnect. PT-1 can be used with up to four Paradigm subwoofers and offers a Zone 2 option allowing you to control a second subwoofer in a second room of your home.

This transmitter has a maximum unobstructed range of 50' (15 m).

INPUT FACILITIES:
Low-Level Input – RCA



Selectable 3-position latency switch adjusts the delay between the PT-1's audio signal and the subwoofer receiver's RF output, optimizing the integrity of the wireless transmission and minimizing distortion.



Which Paradigm Subwoofers is PT-1 compatible with?
Monitor SUB 8, Monitor SUB 10, Monitor SUB 12 and Millenia Sub.
This transmitter is not designed for use with any other brand of subwoofer.

ACCESSORIES

X-SERIES AMPLIFIERS



Shown: X-850

Technical Specs

Design

Ultra-Class-D™ power amplifier, proprietary EQ software to configure amp for specific application, USB port/PBK interface for programming and optional PBK digital room correction system

Amplifier: High-Current, Discrete Output

X-300: 900 watts Dynamic Peak / 300 watts RMS

X-850: 2,550 watts Dynamic Peak / 850 watts RMS

Amplifier Features

X-300: Auto-On/Off, soft clipping, electrical shorting protection, thermal protection.

X-850: Auto-On/Off, Trigger On/Off, soft clipping electrical shorting protection, thermal protection.

Subwoofer Cut-Off Frequency

Variable 35 Hz – 200 Hz; Bypass Option

Sub/Sat Phase Alignment

Variable 0° – 180°

Line-Level Input

X-300: RCA. From Sub-Out/LFE-Out of receiver, processor or other line-level source.

X-850: RCA or Balanced XLR. From Sub-Out/LFE-Out of receiver, processor or other line-level source

Speaker-Level Outputs

X-300: SUB 1/2; SUB 3/4

X-850: SUB 1/2

Height, Width, Depth

8.9 cm x 43.2 cm x 37.5 cm: 2 rack units
3-1/2 in x 17 in x 14-3/4 in: 2 rack units
(Includes rack ears for mounting in 19" rack)

Weight (unpacked)

X-300: 6.1 kg / 13.5 lb each

X-850: 7.4 kg / 16.3 lb each

Finish

Black

INPUT FACILITIES:

Single-Ended RCA Inputs
Sub-In Right (Mono) Input
Balanced XLR Input (*X-850 model only*)
USB Port/PBK Interface (*see previous page*)

CONTROL FACILITIES:

Auto On/Off
Subwoofer Level
Subwoofer Cut-Off Frequency
(*continuously variable 35 Hz – 200 Hz in X-850; 35 Hz – 150 Hz in X-300*) with Bypass Option
Sub/Sat Phase Alignment
(*continuously variable 0° to 180°*)

X-850: 2,550 watts Dynamic Peak Power / 850 watts RMS Continuous Sustained. Powers one or two Paradigm Reference custom subwoofers.

X-300: 900 watts Dynamic Peak Power / 300 watts RMS Continuous Sustained. Powers one Reference or two, three or four Paradigm custom subwoofers.



Easy-to-Adjust Front-Panel Controls. Glass cover attaches magnetically once controls are set.

One sub, two subs, **FOUR SUBS, MORE SUBS.**

Are more subs more fun? Indeed they are! But more subs is about more than just more fun. Bass performance is dramatically effected by the room itself. Bass frequencies are long, they can stretch *far* beyond the average listening room. As they travel, it doesn't take long before they hit a wall (or a ceiling, or a floor!). Because they're heavy, they travel slowly which means they bump into each other often as they roll around. Uneven bass performance results. In some areas of the room bass will be boomy, in other areas you won't hear bass at all. Yes, using two subwoofers, strategically placed (*see diagrams*) creates more bass waves, but that's a good thing. Position the subs to fire in *opposite* directions, when waves meet they will simply cancel each other out! In a nutshell, using multiple subs (preferably two or multiples of two) randomizes the standing waves in the room and evens out frequency response. And yes! For movies in particular, using more subs really *is* more fun!

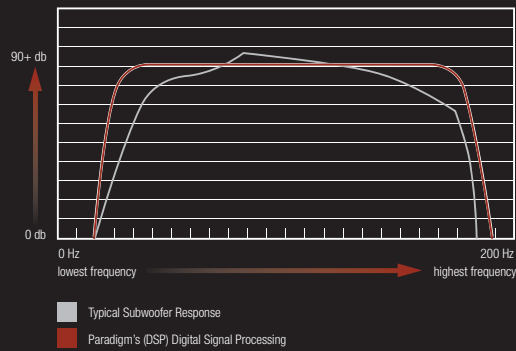


TIP! The one-of-a-kind **Paradigm Perfect Bass Kit** can help you get the absolute best, blockbuster bass in absolutely any room. See page 1 for more details.

Paradigm[®]

A SUBWOOFER FOR EVERY TASTE AND EVERY SPACE

PARADIGM'S PROPRIETARY DIGITAL
SIGNAL PROCESSING (DSP)



Sophisticated algorithms 'shape' frequency response ensuring accurate, clean, consistent musical bass performance without audible distortion, even when the subwoofers are playing at their loudest level.

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