

The Architectural Loudspeaker: *Preference*<sup>®</sup>

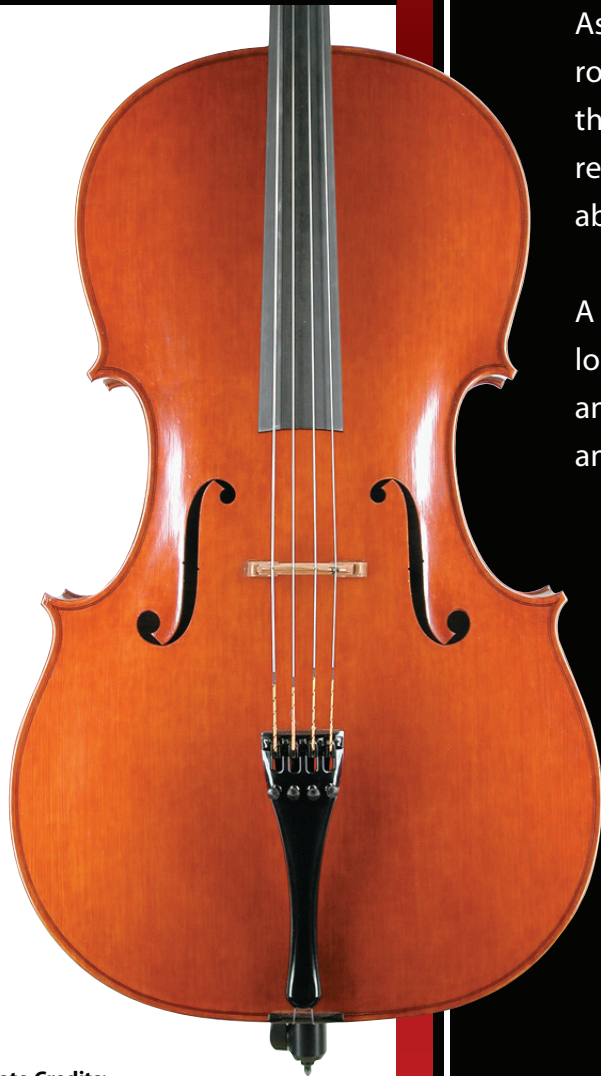


Certain fine  
loudspeakers in the  
audio industry become  
*benchmarks* of sound  
quality or *reference*  
standards by which  
authoritative industry  
experts judge  
all others.

## ***Preference***

architectural  
loudspeakers have  
withstood the test of time  
and become the new  
mark of excellence.

**You will find no greater value.**



### **Instrument Photo Credits:**

*Cello* - Brobst Violin Shop - [www.brobstviolins.com](http://www.brobstviolins.com)

*Piano* - Kawai America Corporation - [www.kawaius.com](http://www.kawaius.com)

*Tympani* - American Drum Manufacturing - [www.americandrum-w-light.com](http://www.americandrum-w-light.com)

# Today's ***Preference***<sup>®</sup> for Music and Home Theater

Every ***Preference*** model loudspeaker is "timbre-matched" ensuring sonic uniformity throughout the line. This means all models have been carefully engineered to have a family sound; this is also referred to as "voice matching".

As special effects from movie soundtracks move about the room, timbre-matching ensures a consistent tonal balance throughout the sound space. This creates that convincingly realistic three-dimensional spatial image, which completely absorbs the viewers into the cinematic experience.

A home theater system may now consist of various loudspeaker sizes and shapes as dictated by room décor and layout, all the while delivering a seamless, transparent and coherent sound space.







### KEVLAR® WOOFERS

Kevlar's strength helps the cone retain its shape at high energy levels and its low mass assures quick, accurate response. The cone's woven surface delivers smooth, uncolored mids. The kapton voice coil former and butyl rubber surround ensure these woofers will provide years of consistent, reliable performance.

### TETORON® SOFT DOME PIVOTING TWEETERS

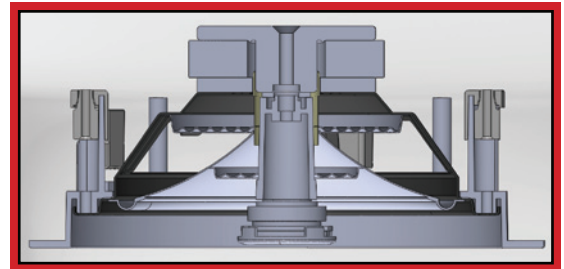
Tetoron soft dome tweeters deliver natural, uncolored high frequency audio evenly with wide dispersion. Ferro Fluid in the voice coil gap lubricates and cools, increasing power handling and improving transient response. The pivoting tweeter allows the already wide dispersion pattern to be aimed directly at the seating/listening area, delivering a seamless, transparent and coherent sound space.

### FAR-FORWARD DESIGN

Preference loudspeakers are designed to have the woofer mounted as close to the grille as possible, helping the woofer & tweeter avoid being "swallowed up" by the baffle mounting, and creating more open and airy sound for every seating location.

### FRONT-MOUNTED DRIVERS

Preference woofers are mounted from the front on ALL our round models, reducing the footprint by more than 1 inch, yielding one of the smallest footprints in the industry. Less real estate on the ceiling or wall means less obtrusive installations.



### 1 ANTI-VIBRATION MOTOR BOOT

Preference speakers are capable of a great deal of energy output in the lower frequency ranges. The custom-tooled motor boot on the woofer's magnet assembly helps damp extraneous energy and enables the Preference line to play loud, clean, and clear.

### 2 MULTI-ORDER CROSSOVER DESIGN

Preference speakers' multi-order crossover networks seamlessly blend the drivers and optimize off-axis performance. Customers don't stand under the ceiling speaker and listen to music, but constantly move around. Preference speakers reproduce music accurately over the widest area, creating great sound throughout the home.

### 3 POLYPROPYLENE CAPACITORS in the PREFERENCE CROSSOVERS

Preference speaker crossovers use polypropylene capacitors in all critical signal areas for the best musical performance. Large electrolytic capacitors are used for long life only where polypropylene is impractical.

### 4 GOLD-PLATED CONNECTORS with HIGH-FORCE SPRINGS

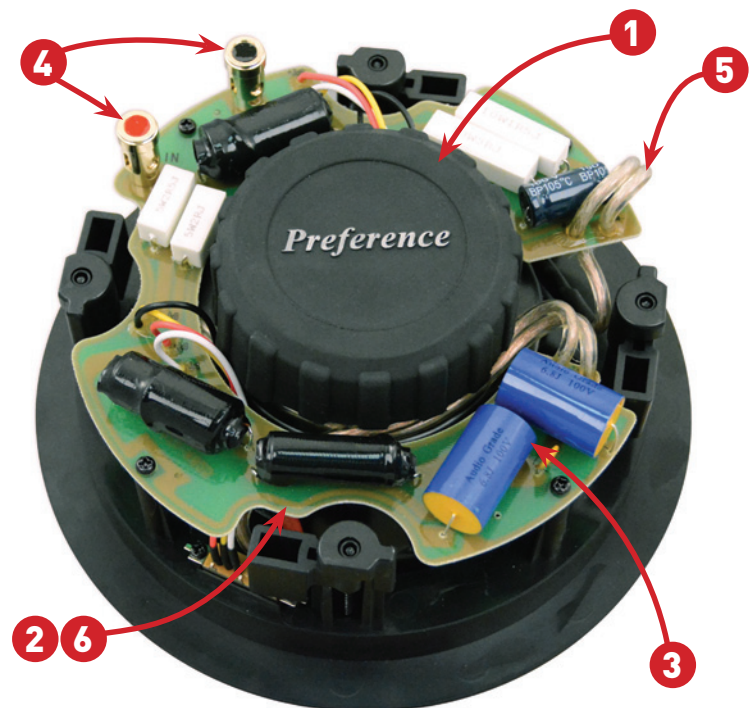
Preference speakers have gold-plated connectors with high-force springs exerting constant pressure for solid connections that tighten over time even the largest gauge wire.

### 5 LARGE GAUGE WIRE

And speaking of wire, Preference speakers are built with beefy, 14 gauge wire connections to reproduce as much musical detail as possible throughout the frequency range.

### 6 FR-4 FIBERGLASS PC BOARDS

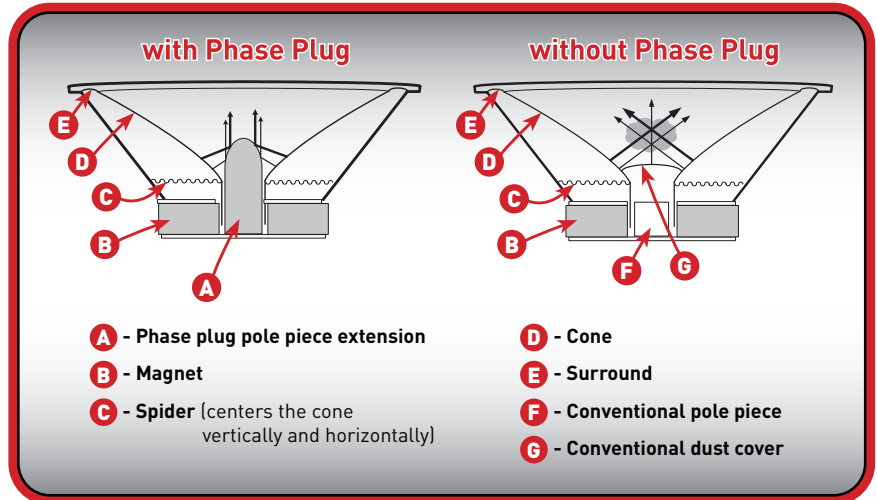
Preference speakers are built with durable, high-quality FR-4 fiberglass PC boards for the crossover platform to solidly support the crossover components and input terminals.



### PHASE PLUG TECHNOLOGY

In conventional speakers, the highest audio frequencies emanate from the area around the center of the cone while lower frequencies come from the area of the cone that is farther from the center. In fact, the distance from the center at which a sound wave will come off a loudspeaker cone is directly related to its frequency. This helps explain why larger cone loudspeakers are usually capable of producing more bass.

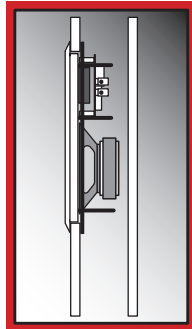
Due to the shape of conventional speaker cones, higher frequency sound waves tend to collide at a focal point, causing phase distortion and a loss in clarity. As a result, accuracy and transparency suffer. This also reduces the realism of the sound environments created by today's high fidelity digital audio and surround sound systems.



The phase plug pole piece extension improves driver performance and clarity by deflecting delicate midrange audio out into the sound space and minimizing distortion producing interference.

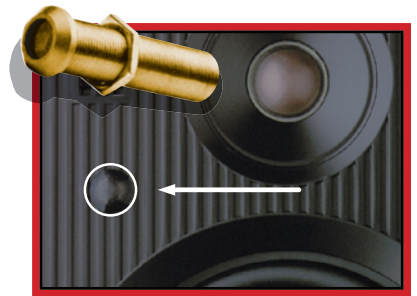
### CLAMP-RING MOUNTING

Our rectangular in-wall models utilize a clamp-ring mounting system which maximizes clamping surface. By distributing the clamping force over a larger surface area, the pressure on the sheet rock is reduced while the overall mounting strength is increased. The mounting ring comes pre-assembled to the loudspeaker frame dramatically reducing installation time.



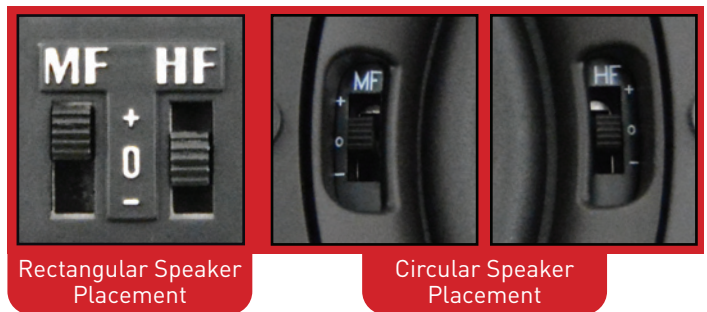
### IR RECEIVER KNOCKOUTS

The K-602, K-802 and K-5LCR rectangular in-wall loudspeakers feature a mounting provision for a remote control signal receiver behind the loudspeaker grille. This allows discrete integration with an infrared receiver/repeater system. These systems work with the standard IR remote controls to allow command of the entire system from any IR-equipped room in your house.



### HIGH-ACCURACY FREQUENCY CONTOUR SWITCHES

Numerous factors affect loudspeaker sonic performance, such as placement and proximity to corners. Midrange and high frequency equalizer controls on the front of the loudspeaker baffle allow the user to adjust the high and middle frequency response of each loudspeaker to compensate for differences in environment and placement. All Preference speakers (except Single-Point) come with tweeter and midrange switches to fine-tune high and mid frequency performance.



### CONSTANT COLOR BACKGROUND

Preference speakers are designed with "constant color background" and avoid flashy cones, glitzy tweeters & bling, producing a smooth consistent background that gives the grille a uniform look.



### EASY PAINTING

The perforated grilles are easy to paint with ordinary fast-dry spray paint. For a custom finish, color and sheen matched spray paints are available through Preference Audio and [myperfectcolor.com](http://myperfectcolor.com).





# Preference<sup>®</sup>

## P-500Xb

500W (Bridged) Class-D Stereo Amplifier



### Features:

- This high current amplifier delivers power and clarity in an efficient low-profile design with extraordinary flexibility. Designed by an international engineering team, the P-500Xb had just two goals in mind:
  - Support the highest levels of music reproduction performance
  - Create an outstanding amplifier with flexibility and power for building better-sounding systems
- The P-500Xb easily bridges two channels of amplification into a single, high-power channel, while the Performance-Calibrated Control Panel lets you dial-in the performance of your subwoofer(s), with precision:
  1. Subwoofer Input optimizes high / low frequency levels
  2. 30 Hz Boost for max low frequency output
  3. 10-50Hz Subsonic Filter controls bass extension
  4. 0-180 Phase Control precisely blends sub(s) with speakers
  5. 0 to -9dB Power Limiter prevents overpowering your subs
  6. 40-160Hz Xover (Low-Pass Filter) blends sub(s) and main speakers
- The P-500Xb has additional system management controls for even better performance:
  - 3 on/off modes: manual, voltage or signal
  - Separate Full-Range and Sub Inputs to isolate signals for maximum signal integrity
  - Less than 0.5W Standby Current Draw
  - LFE Switch to bypass the low pass filter
  - Switchable 115V or 230V operation
- The design team that created the P-500Xb are confident this sleek, 1 U high powerhouse will provide the power and musicality to bring your system to life, and the control flexibility to get the best performance from your speakers and room.

### Dimensions:

- 17.75" W x 2.2" H x 14.6" D  
(450W x 55H x 370D)mm

EFFICIENT CLASS D DESIGN

Powerful, Yet Runs Cool

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Rear Controls

## Specifications

Frequency Response: 4Hz – 30kHz

Crossover Frequency Variable: 40Hz – 160Hz (+ LFE mode)

Variable Bass EQ: 0 to 9dB boost @ 30Hz

Subsonic Filter: 10-50Hz

Phase Adjustment: 0 – 180 degrees (continuously variable)

Limiter: 0 to -9dB variable

Output Power: Stereo: 2X 90W @ 8 ohms, 2X 150W @ 4 ohms

Bridged: 1X 300W @ 8 ohms / PEAK 440W, 1X 500W @ 4 ohms / PEAK 700W

Performance-Calibrated Control Panel: Subwoofer Input, Low Frequency Boost, Subsonic Filter, Phase Control, Power Range & Crossover Frequency

Distortion (at 1/10 rated output power): <0.05%

AC Power Modes: Auto-Power (audio sense), 12V Trigger & Manual

Standby Power Switch with LED ring

5-way binding posts

Weight: 10.4lbs (4.7kg)

Shipping Dimensions: 21.5" W x 4.9" H x 17.1" D, (545W x 125H x 435D)mm

Shipping Weight: 13.3lbs (6kg)



Removable Rack Ears



The international team of home theater and custom installation experts that created the P-500Xb are confident this sleek, 1 U high amplifier will provide you with extraordinary power and clarity to bring your speakers to life, and the control flexibility to get the best performance out of your speakers and your room.

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## decorum series

NEW Frameless Design with Magnetically-Attached Grille

### K-W6LCRSd In-Wall 2-way LCRS with Rotating Cross-Axis Waveguide

#### Specifications:

- 6-1/2" Round **Frameless**
- Frequency Response: 45Hz - 21kHz  $\pm$  3 dB
- Power Handling: 60 watts nom. 120 max.
- Sensitivity: 87dB 1 watt / 1 meter
- Tweeter: 25mm Teton®
- Impedance: 8 ohms nominal

#### Features:

- Unique rotating waveguide for superlative image control
- Woven Kevlar® woofer with butyl rubber surround
- Industry leading superior retro-ring mounting system
- High-grade crossovers w/ polyswitch overdrive protection
- High temperature polyimide voice coils
- New linear high-excursion design
- Phase plug for high power handling
- Mounts vertically or horizontally
- Timbre-matched tuning
- Vibration-free grille



#### Dimensions:

- Overall Dimensions: 9" x 15-3/4"
- Cut-Out: 7-7/8" x 14-7/16" x 3-5/8" D

Optional Pre-Construction Bracket



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## decorum series

NEW Frameless Design with Magnetically-Attached Grille

### K-62d Single Point Stereo 6-1/2" 2-way In-Ceiling / Wall Loudspeaker

Frequency Response: 42Hz - 21kHz ± 3 dB

Power Handling: 50 watts nom. 100 max.

Sensitivity: 90dB 1 watt / 1 meter

Impedance: 8 ohms nominal

Tweeter: 3/4" Teton® soft dome tweeters

Cut-Out Dimensions: 7-1/4" dia. x 3-5/16" deep

Overall Dimensions: 8-7/16" diameter

*Sold and shipped individually*

### K-82d Single Point Stereo 8" 2-way In-Ceiling / Wall Loudspeaker

Frequency Response: 35Hz - 21kHz ± 3 dB

Power Handling: 60 watts nom. 120 max.

Sensitivity: 91dB 1 watt / 1 meter

Impedance: 8 ohms nominal

Tweeter: 3/4" Teton® soft dome tweeters

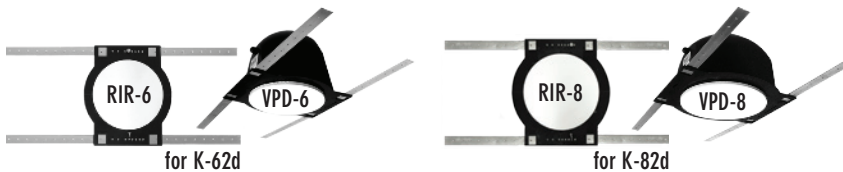
Cut-Out Dimensions: 8-5/8" dia. x 3-7/8" deep

Overall Dimensions: 9-7/8" diameter

*Sold and shipped individually*

#### Features:

- High-grade crossovers with polyswitch overdrive protection
- Magnetic, frameless, micro-perforated, vibration-free grille
- Woven Kevlar® woofers with butyl rubber surrounds
- Dual high temperature Polyimide voice coils



Optional Pre-Construction Brackets & Vapor Domes



#### Optional Square Frameless Grilles

MGS-6f for  
K-62d

MGS-8f for  
K-82d



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## decorum series

NEW Frameless Design with Magnetically-Attached Grille

Limited  
**LIFETIME**  
Warranty

### K-625d

6-1/2" 2-way In-Ceiling / Wall Loudspeaker

Frequency Response: 42Hz - 21kHz ± 3 dB

Power Handling: 50 watts nom. 100 max.

Sensitivity: 90dB 1 watt / 1 meter

Impedance: 8 ohms nominal

Tweeter: 1" Tetoron® soft dome pivoting tweeter

Cut-Out Dimensions: 7-1/4" dia. x 3-9/16" deep

Overall Dimensions: 8-7/16" diameter

*Sold and shipped in pairs*

### K-825d

8" 2-way In-Ceiling / Wall Loudspeaker

Frequency Response: 35Hz - 21kHz ± 3 dB

Power Handling: 60 watts nom. 120 max.

Sensitivity: 91dB 1 watt / 1 meter

Impedance: 8 ohms nominal

Tweeter: 1" Tetoron® soft dome pivoting tweeter

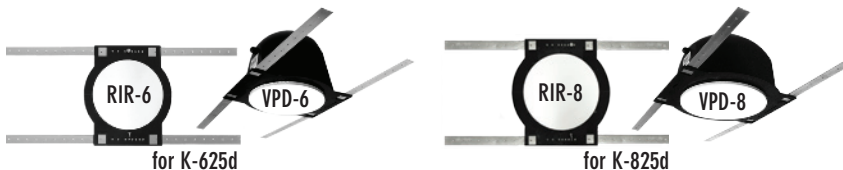
Cut-Out Dimensions: 8-5/8" dia. x 3-7/8" deep

Overall Dimensions: 9-7/8" dia.

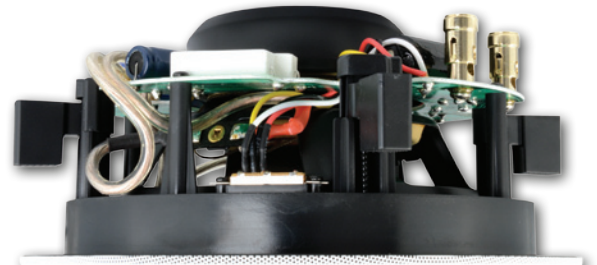
*Sold and shipped in pairs*

#### Features:

- Baffle mounted mid & high frequency EQ switches
- Woven Kevlar® woofers with butyl rubber surrounds
- Magnetic, frameless, micro-perforated, vibration-free grille
- High temperature Polyimide voice coils



Optional Pre-Construction Brackets & Vapor Domes



#### Optional Square Frameless Grilles

MGS-6f for  
K-625d

MGS-8f for  
K-825d



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## decorum series

NEW Frameless Design with Magnetically-Attached Grille

### K-8SWd In-Wall / Ceiling Subwoofer

#### Specifications:

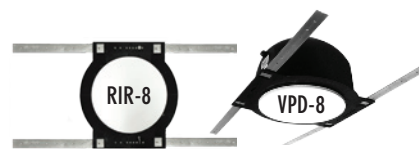
- 8" Round **Frameless**
- Same Size as our 8" In-Ceiling Frameless & 15° Frameless Loudspeakers
- Frequency Response: 30 Hz - 120Hz
- Power Handling: 100 watts nom. 150 max.
- Sensitivity: 86dB 1 watt / 1 meter
- Impedance: 4 ohms nominal

#### Features:

- Woven Kevlar<sup>®</sup> fiberglass composite cone
- Magnetic, micro-perforated, vibration-free grilles
- Gold-plated connectors with high force springs
- Integrated damping ring and butyl surround
- Load-balanced toggle mounting system
- Supplied with round and square grilles
- Sold and shipped individually

#### Dimensions:

- Overall Dimension: 9-7/8" diameter
- Cut-Out: 8-5/8" diameter x 3-7/8" deep



Optional Pre-Construction Bracket & Vapor Dome



For superior performance and sound we suggest connecting two or four K-8SWd subwoofers to one of our 500 Watt Class A/B Model 500 Amplifiers. Multiple woofers placed around the room offers more uniform bass reproduction.



Model 500

Square Frameless Grille Included



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## decorum series

NEW Frameless Design with Magnetically-Attached Grille

### K-6LCRSd In-Ceiling 15° Angled LCRS

#### Specifications:

- 6-1/2" Round **Frameless**
- Frequency Response: 45Hz - 21kHz ± 3 dB
- Power Handling: 60 watts nom. 120 max.
- Sensitivity: 88dB 1 watt / 1 meter
- Tweeter: 1" Tetoron<sup>®</sup> soft dome pivoting
- Impedance: 8 ohms nominal

#### Features:

- Woven Kevlar<sup>®</sup> woofers with butyl rubber surrounds
- Baffle mounted mid & high frequency acoustic compensation / EQ switches
- Magnetic, micro-perforated, vibration-free grille
- High temperature Polyimide voice coils
- High-excursion linear motor design
- Polyswitch overdrive protection
- Augmented dispersion design
- Sold and shipped individually
- Proven mounting system
- High-grade crossovers

#### Dimensions:

- Overall Dimension: 9-7/8" diameter
- Cut-Out: 8-5/8" diameter x 5" deep

Optional Pre-Construction  
Bracket & Vapor Dome



Optional Square Frameless Grille  
MGS-8f



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# Preference<sup>®</sup>



## decorum series

NEW Frameless Design with Magnetically-Attached Grille

### K-5LCRSd In-Wall 2-way LCRS

#### Specifications:

- 5-1/4" Rectangular **Frameless**
- Frequency Response: 45Hz - 21kHz  $\pm$  3 dB
- Power Handling: 50 watts nom. 100 max.
- Sensitivity: 90dB 1 watt / 1 meter
- Tweeter: 1" Teton<sup>®</sup> soft dome pivoting
- Impedance: 8 ohms nominal

#### Features:

- Woven Kevlar<sup>®</sup> woofers with butyl rubber surrounds
- Baffle mounted mid & high frequency acoustic compensation / EQ switches
- Industry leading superior clamp-ring mounting system
- High-grade crossovers with polyswitch overdrive protection
- High temperature Polyimide voice coils
- New linear high-excursion design
- Phase plug pole piece extensions
- Sold and shipped individually
- AIB ribbed baffle design
- Vibration-free grille
- IR knockouts



#### Dimensions:

- Overall Dimensions: 9" x 15-3/4"
- Cut-Out: 7-7/8" x 14-7/16" x 3-1/4" D

Optional Pre-Construction Bracket



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**SOLD OUT**



**K-5LCR**



**K-802**



**K-602**

## framed series



Every Preference model loudspeaker is "timbre-matched" ensuring sonic uniformity throughout the line. This means all models have been carefully engineered to have a family sound; this is also referred to as "voice matching". Certain fine loudspeakers in the audio industry become benchmarks of sound quality or reference standards by which authoritative industry experts judge all others.

### FEATURES

	K-5LCR	K-802	K-602	
Woven Kevlar® woofer with butyl rubber surround	Dual 5-1/4"	8"	6-1/2"	Woofer Size
Tetoron® soft dome pivoting tweeters	1"	1"	1"	Tweeter Size
Center / All Channel - LCRS	✓			
Phase plug pole piece extensions & IR Knockouts	✓	✓	✓	
High-grade crossovers	✓	✓	✓	
High temperature Polyimide voice coils & Magnetically Shielded	✓	✓	✓	
AIB ribbed baffle design	✓	✓	✓	
Industry Leading Superior Clamp-ring Mounting System	✓	✓	✓	
Baffle Mounted MF & HF EQ switches	✓	✓	✓	

### SPECIFICATIONS

Frequency Response	45 - 21K	35 - 21K	42 - 21K	Hz ± 3 dB
Power Handling	50 / 100	60 / 120	30 / 60	watts nom. / max.
Sensitivity	90	91	90	dB 1 watt / 1 meter
Impedance	8	8	8	ohms nominal
Sold and shipped in Pairs or Individually	individually	pairs	pairs	
Overall Dimensions	9" x 15-3/4"	10-1/2" x 14-1/2"	9-1/16" x 12-3/4"	W x H
Cut-Out Dimensions	7-7/8" x 14-7/16"	9" x 13"	8" x 11-3/4"	W x H
Loudspeaker Depth	3-1/2"	3-1/4"	3-1/4"	D

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# Preference<sup>®</sup>

## P-1200

300 Watt Powered Subwoofer



### Features:

- The P-1200 subwoofer was designed for exceptional performance and value. It features a 12" extra-long excursion woofer with high BL motor. The bass reflex enclosure with flared port ensures extended bass response and high acoustic efficiency.
- The woofer is driven with an integral 300W class A/B amplifier utilizing the patented BASH<sup>®</sup> technology for high electrical efficiency.
- The integral rear-mounted 300 watt amplifier includes level, phase (continuously variable 0-180°), and crossover control to contour the subwoofer's output to blend with virtually all loudspeakers and room environments.
- The integral low pass crossover network is continuously variable from 40Hz to 120Hz and can be bypassed if it is preferable to use an external crossover located in an outboard receiver or processor.
- The P-1200's integral amplifier incorporates a defeatable signal-sensing circuit that automatically powers up the amplifier when a signal is detected.
- A double-insulated isolated ground electrical supply prevents electrical ground loops and reduces the noise floor of the entire audio system.



### Dimensions:

- 15-3/8" W x 17-5/16" H x 14-3/4" D  
(390 W x 440 H x 375 D) mm  
(without feet)

12" EXTRA LONG-THROW Heavy Duty Driver  
Twin Port Design

## Preference<sup>®</sup>

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## 300 Watt RMS BASH® Amplifier

### Specifications

- Frequency Response: 25Hz – 300Hz (system response)
- Crossover Frequency: 40Hz – 120Hz (low-pass filter with bypass switch)
- Phase Adjustment: 0 – 180 degrees (continuously variable)
- Amplifier Output Power: 300 watts, with thermal and clipping limiters
- Audio Inputs: Summing stereo line level (RCA x2)
  - LFE (RCA shared with left input connector)
  - Speaker level (stereo 5-way binding post)
- Input Impedance: Line level – 20k ohms, unbalanced
  - Speaker level – 220 ohms
- Input Power: 120V 60Hz AC
- Input Power Connection: IEC 2-wire receptacle with integral fuse holder
- Power (Mains) Fuse: 3.15A 250V T3.15AL (5x20mm) style slow-blow
- Power Modes: Auto signal sensing and always on
- Auto Off Delay: ~10 minutes
- Weight: 43lbs (19.5kg)
- Shipping Dimensions: 21"W x 20"H x 20"D, (533W x 508H x 508D)mm
- Shipping Weight: 51lbs (23.2kg)



### Included Hardware



Spiked Feet (4)



Knurled Jam Nuts (4)



Rubber Feet (4)

The P-1200 is shipped with adjustable feet, (4 spiked and 4 rubber) with tool-less knurled jam nuts. These feet can be installed in the bottom of the enclosure in either a 3-point triangular pattern or a more traditional 4-point square pattern. The bottom of the enclosure has 5 threaded inserts arranged to accept either pattern.



Rev. G

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