

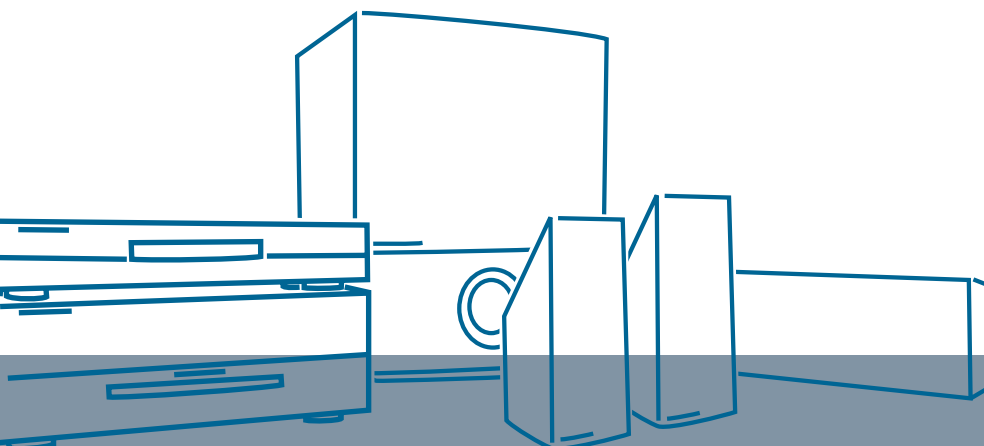
## Harman Kardon Allows Your Music to Follow You Anywhere At Home.

It all began with the simple speaker A/B switch. After all, if you could have speakers in one room, why not extend the sound to another room, or perhaps even to the backyard? It was a great idea, but one with limited flexibility because it didn't allow for using a different source, or for controlling the volume, in a second location. At the other end of the spectrum, complex multizone/multiroom systems have been developed to provide complete "whole house" audio, but are often expensive and complex to install.

Looking for the best way to deliver audio throughout the home, Harman Kardon realized that there was no single method that worked in all situations. As a result, Harman Kardon created an array of options that allows customers to select the solution that suits them best. Whether the home calls for a large-scale system covering many rooms or a single set of speakers in another location, or whether the customer is installing the system on his or her own or having someone else do it, Harman Kardon delivers sound with the quality you expect, at a range of price and power options.

In considering the ways in which sound is distributed throughout a home, it is important to first understand some of the terms used to describe installation technologies and components.

- The "**main room**" is the prime listening area in the home, and it's almost always the place where the equipment providing source playback, control and amplification is located. In today's digital entertainment world, the playback in this room is usually multichannel, though it may be stereo as well: sources may be digital or analog.
- A "**zone**" is an area that receives the same source, which is typically, but not always, different from the program material that is being played in the main room. A zone may be one room or many, and while the source is the same in all rooms, the volume level may be different, depending on the system used.
- A "**room**" is a subdivision of a zone that has the capability of setting a different volume level than another room in the zone. A zone may have one room, or it may have many. For example, if the zone is a pair of outdoor speakers on the patio, the zone and the room are the same, with the same source and volume control. However, if the zone is a master suite, the bedroom may be one room and the bath or dressing area another. All rooms receive the same source, but some may have different volume levels. Indeed, not all rooms in a zone need to be active at the same time.



## Harman Kardon offers a variety of ways to extend listening pleasure from the main room to additional areas in a home.

### ■ Built-in Second Zone Control and a Standard Zone II Remote

All Harman Kardon seven-channel receivers (DPR 1001, AVR 7200, AVR 525 and AVR 325) have second-zone capability that allows you to choose a separate source for listening in a zone and rooms throughout the house. Any analog source may be sent to the separate zone, regardless of which input is in use in the main room, and the digital source playing in the main room may also be sent to the second zone. The source may be selected, and the volume controlled, using the on-screen control system in the main room. And, when an optional IR sensor is installed in any room in the second zone, commands can be sent from the Zone II remote to control the volume and source for the zone. The audio feed is always available at the "MR" preamp outputs on the rear of the receiver.

### ■ Configurable Rear-Channel Amplifiers

All Harman Kardon receivers with seven amplifier channels may be operated in two modes. When seven speakers are installed in the main room, the onboard amplifiers power all channels without the need for any external amps. However, in some cases, space, interior design or budgetary considerations make it impractical to use the surround back channels available in the Dolby Digital EX,<sup>™</sup> DTS-ES<sup>®</sup> and Logic 7<sup>®</sup>/7.1 modes. In those instances, rather than let the amplifier circuitry go to waste, Harman Kardon lets you reassign the two "spare" amplifiers that would normally be used for the back surround channels to power the speakers in your second zone. A simple setting in the "Advanced" menu does the trick and, once the setting is made, the source selected for the second zone is routed through the powerful amplifier in your receiver, directly to the remote zone speakers with fully independent volume control. This is the "ultimate A/B switch," and it lets you add sound in a second room for just the cost of the speakers.

### ■ Harman Kardon External Power Amplifiers and KP 1 Keypad

When a whole-house audio system calls for more than room, Harman Kardon powers the way with our PA series amplifiers. The PA 2000 and PA 4000 each provide multiple 45-watt-per-channel stereo pairs – two for the PA 2000 and four for the PA 4000. Both amplifiers are bridgeable for even higher power and, as you would expect from Harman Kardon, both amplifiers feature our renowned high-current, ultrawide-bandwidth design so that they handle even the most inefficient power-hungry "rock" speakers with ease.

Both amplifiers feature parallel pass-through jacks for the input so that multiple amps may be cascaded from the same input for large-scale installations, and the PA 4000 features dual-input jacks so that it may be used in two-zone applications. When either amp is used, volume may be controlled using the receiver's multiroom system, or you may trim the output level using the rear-panel controls on the amplifier to ensure levels do not exceed a certain point.

For the most sophisticated systems, the PA 4000 is designed to work in conjunction with the KP 1 keypad so that each room in a zone may be set to a different volume level. The KP 1 also makes provisions for an optional infrared sensor so that the commands from a receiver's Zone II remote may be easily channeled back to not only the receiver for source selection, but to any compatible Harman Kardon source components connected via the IR link for transport and playback control.

### ■ A-BUS Ready<sup>®</sup> Connectivity and the AB 1 Module

When a remote room needs amplification to power a pair of speakers, but the receiver's amplifier is used for 7.1 operation, A-BUS provides an easy way to power the second zone without the use of an external amplifier. Simply connect the A-BUS Ready jacks on an AVR 7200, AVR 525 or AVR 325 to our AB 1 module using standard Category 5 UTP wire, mount the module in a standard wall box or plaster ring, and connect the speakers to the module, and the room is filled with sound! The single Cat. 5 wire carries the signal selected by the Zone II remote using the module's built-in IR sensor, along with power for the module's built-in amplifier. With A-BUS, no additional power cords or amplifiers are required, and volume may be controlled using the controls on the module or with the remote. For simple, inexpensive, easy-to-install remote-room audio, a Harman Kardon A-BUS Ready receiver and the AB 1 module are the perfect combination.

**When it comes to multizone/multiroom whole-house audio,  
no one offers more options than Harman Kardon!**

**For more information visit [www.harmankardon.com](http://www.harmankardon.com).**