

harman/kardon®

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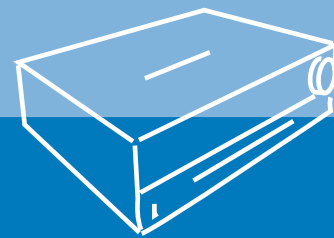
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H A Harman International Company

harman/kardon®
Power for the Digital Revolution.®

Let the Harman Kardon story unfold. We don't just make commodities. We create experiences. Because high-quality audio/video products are more than just boxes with knobs and buttons, this brochure is more than just a catalog of features and specifications; it's an expression of our uncompromising goals. And it's a declaration of our passion for music and cinema. We invite you to experience the unique combination of artistry and engineering that is Harman Kardon.



What's the point of whiz-bang technology if it's too complicated to use?

At Harman Kardon we believe that a home theater or music system's reason for being should be entertainment and enjoyment, not button-pushing and menu navigation.

Although we make some of the most feature-rich home entertainment products on the planet, we constantly strive to make sure they're easy to use. For every member of your family. Not just your techno-savvy kids.

We make elusive technology easy to grasp.

Our newest remote control is a good example. Instead of having to look up and input codes, you just tell it the brand of your TV, CD player, VCR, etc. Touch a button on the remote and a lighted display automatically tells you the function. It doesn't get much easier...which is the whole point.

So share the combination of passion and vision that sets Harman Kardon apart and we hope you will soon be the proud owner of one of our premium entertainment components.

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“We’re driven by a passion for music and cinema.”

“Technology can get you most of the way to good sound...but that last critical leap to state-of-the-art reality comes only from endless hours of critical listening — and a deep, almost fanatical love of all types of music and every sort of movie.

“Ever since I helped found Harman Kardon, we’ve been fanatical about maintaining a balance between pure engineering and what audio engineering’s true result should be — a more realistic entertainment experience. Each step forward — and I’m proud to say that Harman Kardon has led the industry in technological advances — has been measured with a simple question: ‘Does it take us closer to the musical truth?’

“You don’t get the answer to that question merely with laboratory tests and measurement devices. Yes, the best test device is the human ear. But Harman Kardon relies just as much on the human heart and soul. Only when music and cinema become passions in themselves can our engineers create technology that is audibly better than our competition’s.

“When you experience firsthand the electronics and speakers described in this brochure I am confident you will agree that owning a Harman Kardon product sets you apart from the crowd. It is a validation of your own desire to command the ‘best seat in the house’ no matter what kind of music or cinema you enjoy.”

— Dr. Sidney Harman, founder



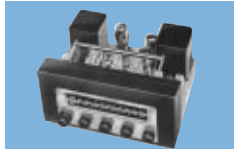
“You’ll know where we’re going when you see where we’ve been.”

1953



Auspicious beginnings. Harman Kardon produces its first product, an FM tuner.

1954



Our earliest “why-didn’t somebody-think-of-that-before” – Festival D1000, the world’s first high-fidelity receiver. A tuner and amplifier had never been combined before.

1958



Another first. Festival TA230 – the world’s first stereo receiver.

1959



The world’s first ultrawide-bandwidth tube amplifier. The Citation II remains a classic collectors’ item today.

1963



Harman Kardon’s Citation A and B are the first solid-state products with replaceable circuit boards for easy service.

1970



Harman Kardon introduces the CAD5, the world’s first cassette deck with Dolby® B-type noise reduction.

1980



Current events. We introduce the first high-current capability amplifier, the Citation XX.

1987



Advancing tuner technology is in our genes. A Harman Kardon FM tuner, Citation XXIII, is the first with active tracking.

1999



The need for speed. Our CDR 2 becomes the world’s first CD audio recorder with 4x dub speed.

1999



Art meets Science. Harman Kardon SoundSticks are the first branded computer speakers to win design awards.

2000



Our AVR 7000 is the first AV receiver with onboard Logic 7, VMAX and HDCD processing.

2001



No electrical engineering degree required, Part 1. Our patented EzSet remote lets you automatically calibrate your surround system.

2002



No electrical engineering degree required, Part 2. We introduce the world’s first receivers with fully color-coded rear-panel connections for easy setup.

2002



Harman Kardon debuts the industry’s first stand-alone AV receiver with a fully digital signal path from input to speaker outputs – the DPR 1001.

2002



Leading automakers – BMW, Land Rover, Mercedes-Benz, Mini Cooper and Saab – include Harman Kardon high-performance systems, featuring Logic 7.

2003



Harman Kardon celebrates its 50th anniversary.



The science of passion: current Harman Kardon technologies

Innovation is a combination of major technological breakthroughs and smaller, detail-level enhancements. To deliver the right combination of power, performance, flexibility and ease of use, Harman Kardon has always sought to strike a balance. We carefully weigh the development of key enhancements to the basic underpinnings of audio and video technology against the importance of making them accessible to both the advanced audiophile and the home theater novice.

More muscle for maximum punch: High-Current Capability
Watts per channel is an incomplete measure of amplifier power. In terms of dynamic range and impact, it's current that counts. HCC is an overall design approach encompassing everything from transformer design and capacitor size to discrete output circuitry and minimal use of negative feedback. This electronic equivalent of a high-torque, high-displacement racing engine results in audible benefits. You enjoy tighter bass, superb transient response and enhanced presence at any volume level.

A better approach to sound: Logic 7®
When the engineers at Harman Kardon set out to find ways to improve the playback of multi-channel sound, they came up with significant improvements that build upon recent advancements in digital technology and take them to the next level: Logic 7.® Originally developed for high-end processors and now featured in luxury automobiles, Logic 7 processing is now part of every AV receiver we offer. With Logic 7, proprietary digital algorithms are used to create a more cohesive and enveloping sound field from the tens of thousands of analog matrix soundtracks currently available. Logic 7 is not only capable of resolving either five or seven channels from a two-channel source; it increases the accuracy with which sounds are directed to the center and surround channels, for more precise reproduction of the original soundtrack.

When only two will do: VMAx®
Despite the marketplace focus on multichannel surround sound, there are still many situations where it is only possible to include two speakers in a room's environment – thus sacrificing the benefits of a 360° sonic presentation. Harman Kardon has solved that problem with its exclusive implementation of VMAx® technology in both multichannel receivers and stereo receivers. Using a series of complex calculations based on intensive research into the way sounds are heard and processed by the brain, VMAx creates a three-dimensional sound field using only conventional left and right front speakers. The result is sound that fills a room and puts you at front row, center.

Switchable front-panel jacks
This one will go to the top of your "Why didn't I think of that?" list. Front-panel input jacks are a common sight on many audio/video products, but that doesn't help when you want to send a source out of the receiver, for dubbing to a portable device. Rather than force you to fish around the back of your system, Harman Kardon makes things easy by making it possible to switch the video, analog audio and digital audio jacks on the front panel of select AVRs from an input to an output. With one quick change of a menu setting, any digital or analog source playing through the AVR is routed to the front panel so that you can make your dub for the day and be on your way. What could be simpler?

The multiroom solution
A-BUS® technology makes it easier than ever to enjoy audio in any room of your house. Every A-BUS Ready® Harman Kardon AVR model includes a multiroom switching system, assignable rear amplifier channels and a Zone II standard remote. A simple one-wire connection to an AB 1 keypad module is all that's needed to send audio and power commands to any location. The easily installed AB 1 module powers your remote in-wall speakers without further amplification or AC connections, and it does more than adjust volume. It includes a built-in remote sensor to control your entire system.

Your own personal audio technician: EzSet quick surround setup
The individual channel levels of a state-of-the-art movie theater surround system have been carefully calibrated by trained technicians. EzSet speaker calibration does the same for your Harman Kardon home cinema system. EzSet uses a built-in sound pressure measurement and calibration system that lets you automatically balance speaker channel levels for optimum surround sound enjoyment – regardless of the speaker type or room conditions. Push a few buttons and, in less than three minutes, your Harman Kardon system is calibrated. Bottom line – the adjustment most critical to multichannel movie soundtrack reproduction has been made virtually foolproof.

Software upgradeability & digital connectivity
As technology advances, obsolescence is usually a concern. But now, with a two-way communications port and rewritable flash memory, select Harman Kardon AVR models can be easily updated with new features and functionality for years to come. The RS-232 port not only enables software upgrades; it gives you full control of your system with optional third-party keypad systems, controllers and personal computers. Even Harman Kardon DVD players are upgradeable when needed with special CD-ROM discs.



Harman Kardon's digital path receiver technology

Since the introduction of the compact disc in 1982, digital technology has gradually taken over the home entertainment world. Initially used only for playback sources such as CDs, the use of digital technology has expanded to include the recording and distribution of virtually all forms of programming. It's also used to compress and process audio signals so that up to eight channels of discrete information may be stored in the space of two. Dolby® Digital, DTS® and MP3 are, each in its own way, examples of how digital technology is used to extend the playback options for audio.

Indeed, the digital soundtracks played back on a DVD or through a digital cable box, satellite receiver or HDTV set-top increasingly start with digital recording, and digital technology keeps them pristine along their travels from soundstage to movie theaters to

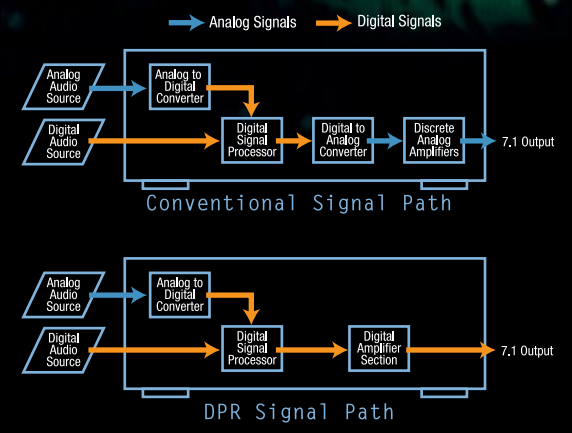
production houses and DVD pressing plants, to the output of your DVD player.

Unfortunately, when digital circuits exist as individual blocks, the potential for trouble has been unavoidable. Until now. With the introduction of the DPR 1001 Digital Path Receiver, Harman Kardon eliminates the need to convert digital signals back to analog between the output of the DSP and the input to the amplifier. How is this done? The simplest way to describe the process is to say that the inefficient power supply, oversized transformers, heat-producing power transistors and large, heavy heat sinks of traditional analog amplifiers are eliminated and replaced with totally digital circuitry.

The incredible system efficiency of the digital design – over 80% as compared to slightly more than 55% in a conventional design – means you have seven full channels of high-quality amplification without the need to remove heat. As important, removing the

entertainment system thanks to the ability to fit a DPR-based receiver in places where you never thought a high-quality audio system could fit.

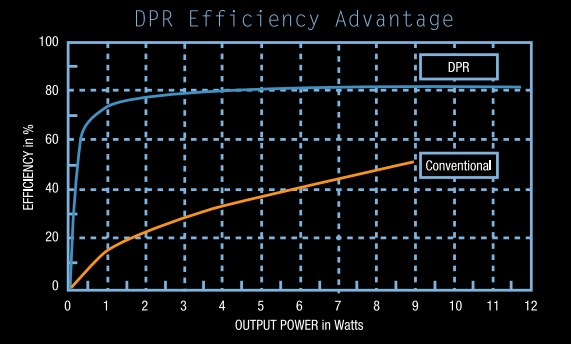
Because it's Harman Kardon, the DPR's all-digital design does not scrimp on features and flexibility. Other products may use digital amplifiers to save space, but they do not have the power and refinement of a DPR. Logic 7® and VMAx® processing, in addition to Dolby Digital, Dolby Digital EX, Dolby Pro Logic® II, DTS 5.1, DTS-ES® and DTS Neo:6®? Of course the DPR has them! Seven audio channels with onboard amplifiers? We wouldn't have it any other way! A full multizone system, complete with assignable amplifier channels to power it right out of the DPR and a standard Zone II remote? Standard on the DPR. An easy-to-use, yet powerful remote control, complete with an



Digital path receivers eliminate an additional conversion step by keeping signals in the digital domain straight through until they reach the speaker outputs. This preserves signal quality by removing the possibility of inducing conversion artifacts and other noise.

However, once these digital signals reach your home they are processed in various ways that make them resemble digital islands connected to the analog world by bridges. In an A/V receiver these bridges include the analog-to-digital converters on the front end of a system and the digital-to-analog converters (DACs) at the back end which convert the digital signal back to analog after the processor, or DSP, has done its work.

Digital signals are virtually free from interference, but each time they are taken apart or put back together there is the opportunity for bits to be lost or for the signal to be degraded. No matter how good the converters are – and Harman Kardon uses some of the best available – some change to the signal is inevitable.



heat sinks, large transformer and cooling fan means not only that the system is totally silent; it is considerably smaller. This gives you more freedom for the placement of a home

LCD display and both learning and programmable functions? Certainly! The list goes on and on. After all, the DPR is a Harman Kardon receiver at heart, and no one knows how to build a receiver better than the company that invented the receiver 50 years ago.

Then there's the sound. It's everything you would expect from Harman Kardon and more.

Advanced technology is a bonus, but it's the music and movies that count. The DPR 1001 Digital Path Receiver takes the shortest course, direct from the original source to your speakers, preserving the quality of the performance. That was the reason digital technology was originally applied to home entertainment. With Harman Kardon's new digital path receiver, the promise of Power for the Digital Revolution® is finally realized.

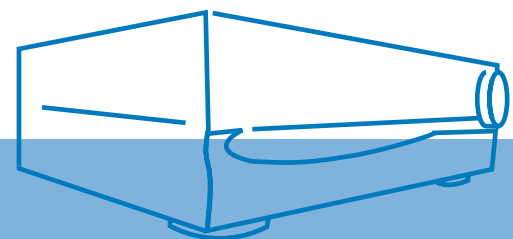


DPR 1001 7 x 50W Digital Path Receiver

Pure digital. Once again, Harman Kardon breaks the rules and sets a new standard for advanced technology. This time we've leapfrogged conventional technology to create the first true digital path AV receiver. Simply put, the audio signal remains digital all the way from the disc through to the digital amplifiers. This unique, all-digital approach results in a dramatically smaller form factor, much cooler operating temperatures, enhanced reliability, and flexibility in output assignment.

At the heart of the DPR 1001 is a sophisticated audio/video switching, control and decoding system. Choose from Dolby Digital, Dolby Digital EX 6.1, Dolby Pro Logic II, DTS 5.1 and DTS-ES. Also available are DTS Neo:6, Logic 7 and VMaX. Select HDTV sources or progressive scan DVD players without compromising picture quality, thanks to wide-bandwidth component video switching. You can send separate audio and video programs to a second room in your house. Digital bass management options include a Triple Crossover system and full control over the "Direct" inputs for use with DVD-Audio and SACD players.

If you enjoy owning the latest technology – or if you simply want an extremely compact and stunningly styled receiver – consider the DPR 1001.



The digital path to reality. Until recently, Pulse Width Modulation (PWM) amplifiers were used mostly in subwoofer systems and entry-level DVD/receiver combinations. They simply didn't have the musicality necessary for quality reproduction across the full audio spectrum. As in every other area of digital engineering, nothing stays the

DPR Remote Controller

Not just another "universal" remote. The DPR's internal sophistication is further enhanced with the external simplicity of a completely new remote control design. With the EzSet feature, the DPR remote makes surround sound level setup a breeze. It includes a built-in sound pressure level meter and calibration system that takes the complexity out of balancing your multichannel system.

And instead of having to look up codes and enter numbers, you just "tell" the DPR remote the brands of your TV and other components and it does the rest, thanks to internal firmware programming. When you select a source other than the DPR 1001, the remote's backlit, two-line LCD screen shows you the function for each button you select. No more guessing. No more "oops."



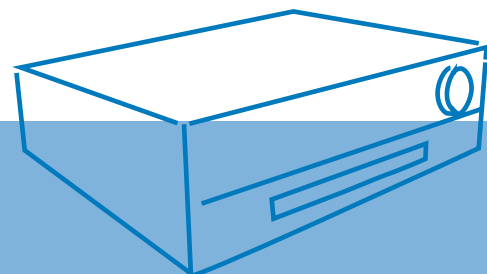
same for long. Harman Kardon engineers have tapped into the very latest advances in PWM, including multiple pole-zero feedback systems, increased sampling speeds in excess of 350kHz and new logic chip designs, to harness the potential of Pulse Width Modulation in our DPR 1001.

To view every model, visit
www.harmankardon.com



AVR 7200 7 x 100W 7.1-Channel AV Receiver

For those who want all the bells and whistles with power to spare, the AVR 7200 is a dream come true. Its seven-channel, high-current, ultrawide-bandwidth amplifier is the most powerful ever in a Harman Kardon receiver. Also, a comprehensive bass management system with Triple Crossover selection makes certain that low-frequency sound goes to the right place no matter what type of speakers you own or input you use, including DVD-Audio or SACD! Multiroom options abound, ranging from assignable rear-channel amplifiers to an A-BUS Ready® port which allows complete remote room control and amplification with only one Cat. 5 wire connection. A programmable remote with an LCD display and EzSet, RS-232 port, and a complete range of surround processing and decoding options all contribute to the AVR 7200's spectacular music and home theater performance.



Powerful engines and simple controls for exciting entertainment. More from less. These audio/video receivers take full advantage of multichannel digital sources. But what about plain, old-fashioned TV and videocassette movies? Harman Kardon's proprietary Logic 7 Cinema and Music circuitry can synthesize an enveloping 5.1- or 7.1-channel surround experience from stereo or matrix audio soundtracks.



AVR 630 7 x 75W 7.1-Channel AV Receiver

In the world of electronics, this is what's known as "robust": a dual-core, 24-bit DSP processor and 32-bit post processor, RS-232 connectivity for system control and software updates, a two-line LCD remote control, Logic 7 processing and DTS 96/24, as well as the latest Dolby Digital, Dolby Pro Logic II and DTS Neo:6 surround sound processing options. This model also has quadruple crossover with six crossover points per speaker location and, with A-BUS Ready connectivity, it offers more multiroom options than any other receiver. The AVR 630 has seven channels of high-current, ultrawide-bandwidth performance, with front and rear inputs and outputs for any application. It's a lot of power, but you can handle it.

AVR 430 7 x 65W 7.1-Channel AV Receiver

With a sleek look to complement today's flat-panel displays, and technology to make the most of the latest digital sources, the AVR 430 is an outstanding expression of the Harman Kardon design philosophy. All of the newest surround sound modes are here, including Dolby Digital EX, DTS-ES, DTS 96/24 and Harman Kardon's own Logic 7. There's an RS-232 port for both software upgrades and system control, along with an LCD remote. And with a Zone II standard remote and a variety of multiroom options, the AVR 430 can fill your whole house with sound.

To control the sounds decoded or processed through the digital engine, all Harman Kardon receivers let you optimize the sound for your taste and your speakers and then save the settings for each input separately, so you only have to make key adjustments once.

To view every model, visit www.harmankardon.com

AVR 230 6 x 50W 5.1/7.1-Channel AV Receiver

Powerful enough to bring action movies thundering to life, and versatile enough to accept virtually any source material, the AVR 230 is an impressive performer. It has a six-channel, high-current amplifier, and Dolby Digital and DTS decoding, along with Logic 7, Dolby Pro Logic II and DTS Neo:6 to its credit. Featuring an EzSet remote with on-screen menus, component video switching and seven-channel architecture for adding a full complement of rear surround speakers, it's a home theater system you can grow with.



AVR 130 5 x 45W 5.1-Channel AV Receiver

Don't let the AVR 130's price fool you! Our most affordable AV receiver has a high-current, ultrawide-bandwidth amplifier that can handle the most demanding speaker loads. A wide range of processing options, including Dolby Digital, DTS, Dolby Pro Logic II and, of course, our own Logic 7 and VMaX technologies, give you theater-quality sound at a budget-minded price. Six digital inputs, two digital outputs, 192kHz/24-bit digital-to-analog converters and a programmable remote control help complete the list of features the AVR 130 offers.

AVR 330 7 x 55W 7.1-Channel AV Receiver

High performance at a highly attractive price. The AVR 330 features a seven-channel, high-current amplifier with power enough for the most demanding digital soundtracks, all of the popular surround sound modes, component video switching, an EzSet remote and a complete multiroom system with a standard Zone II remote. Plus front-panel inputs for analog and digital sources, as well as composite and S-Video jacks, for quick connections to digital cameras, camcorders or video games.

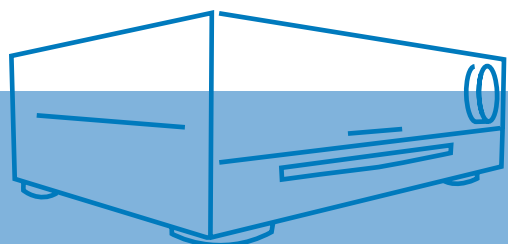


HK 3480 2 x 120W Stereo Receiver

When two channels are all you need, make it two ultrahigh-bandwidth, high-current channels from the company that invented the stereo receiver. The HK 3480 features seven audio inputs, four video inputs, including one on the front panel, 30 AM/FM station presets, VMaX surround synthesis from stereo sources, three-step dimmable fluorescent display, phono preamp, pre-out/main-in jacks, gold-plated inputs and separate subwoofer output. Also included is a multicomponent system remote control.

HK 3380 2 x 80W Stereo Receiver

Perfect for a main music system, the HK 3380 uses the same discrete high-current, ultrawide-bandwidth amplifier technology found in our AVR Series receivers. It also has four video inputs, including one on the front panel. Includes multicomponent system remote control, 30-preset AM/FM section, phono preamp, subwoofer output, dimmable fluorescent display, pre-out/main-in jacks and even a nine-step, 90-minute sleep timer.



Performance to be proud of, modestly priced: Harman Kardon is exceedingly proud of its AVR receivers – after all, listeners and reviewers around the world have long accorded them “best in class” status. And it's not just the power and features of the AVRs that warrant such pride, but the value they represent. Even Harman Kardon's most modestly priced AVR features a high-current, ultrawide-bandwidth amplifier design and an elegant appearance.

Purely musical. Exquisitely accurate. Sometimes the basics are best. In a world of HDTV, DVDs and 300-channel satellite feeds, where does a quality stereo receiver fit? In a den, home office or children's room. Anywhere music can enhance your life. Think of Harman Kardon stereo receivers as elegant analog wristwatches in a world of digital chronometers. The HK 3480 and HK 3380 are designed with ultrawide-bandwidth circuitry, high-current capability, A/B speaker selection and a practical, easy-to-use, multifunction remote.

To view every model, visit
www.harmankardon.com



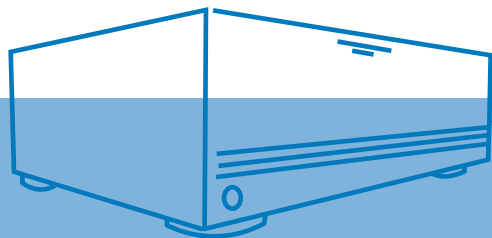
PA 4000 Multiroom/Multichannel Power Amplifier

This remarkably flexible power amplifier combines four bridgeable 45-watt amplifier pairs (a total of eight channels) with two separate inputs to allow simultaneous home theater and multizone use. For example, bridge two amplifier pairs and use them for the rear surround channels of a 7.1 surround system, while a second input from a multizone system feeds two separate rooms with 2 x 45 watts of high-current, wide-bandwidth power. Music Sense turn-on or a low-voltage trigger may be used for automatic operation with any system, and independent volume controls allow you to set a different level at each speaker location. For the ultimate in control, pair the PA 4000 with Harman Kardon's KP 1 keypad for complete power on/off and volume control from a remote room, and add an optional IR sensor so that the PA 4000 can truly serve as the audio amplification and multizone hub of your home's complete audio/video system.

PA 2000

Multiroom/Multichannel Power Amplifier

Designed to power loudspeakers in other parts of your house — or to add extra home cinema channels for 7.1 surround, the PA 2000 delivers 4 x 45 watts or 2 x 100 watts. Special circuitry maintains signal integrity over long cabling distances, so you can enjoy high fidelity anywhere in your home. Fanless cooling for ultraquiet operation and automatic, music-sensing power on/off are featured, too.



Extending the passion...multiroom enhancements. Thanks to Harman Kardon, high-quality audio is no longer limited to a single room in the house, and you don't need a complex room full of gear to enjoy music throughout a home. Harman Kardon AVR and DPR receivers (except AVR 130 and AVR 230) include a multizone system that feeds a separate input source to a second zone, a standard Zone II remote, and IR inputs and outputs for



KP 1 In-Wall Keypad

Let the KP 1 power up the PA 4000 multichannel amplifier and control speaker volume in any room in your home. Use with a Decora®-style faceplate (not included) to blend with any room décor; the KP 1 mounts in standard electrical junction boxes. When used with optional third-party IR sensors, you can also control functions of Harman Kardon DVD and CD players as well as AV receivers.



AB 1 Amplified In-Wall Module for A-BUS® Applications

Requiring just one wire connection and no extra power amplifier, the innovative A-BUS system makes it incredibly easy to extend your Harman Kardon sound system to a remote room. The AB 1 contains a built-in amplifier that's compatible with most in-wall or ceiling-mount speakers, and an onboard volume up/down toggle control that makes it easy to use. An integral remote sensor completes the package, so the Zone II remote included with every A-BUS Ready receiver lets you select and control compatible playback sources, such as the AVR's tuner or a CD or DVD player.

control of compatible devices with one single IR sensor. To handle a remote zone and multiple rooms, we offer a wide range of options, including stand-alone amplifiers such as the PA 4000 and PA 2000 to power the remote speakers, assignable amplifiers in every seven-channel receiver, and A-BUS Ready operation in select models for a single-wire connection to a remote module that not only controls the system — it powers it, too!

To view every model, visit
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Temporal transporter. Time machine. Where shall we take you tonight?

“Roman Holiday” with champagne and popcorn • Nights in white satin • “Ladies and gentlemen, the Rolling Stones!” • Stravinsky’s Rite of Spring • Mel’s Drive-In • “Why don’t we watch ‘The Lion King’ without the kids for once?” • The most romantic movie ever made • The hills are alive with (choose one) music...gigantic bugs...restless natives... • “Wow, the vinyl record version I wore out in college never sounded that good.” • Yo-Yo Ma’s “Silk Road Journeys” •

Adventures in whitewater rafting • Super fly me to the moonstruck • Ring cycle, cycle of the rings, three-ring circus • “We don’t need no steenking badges!” • KA-BLAM!!! RUMBLE-BOOM! • Cool jazz • Director’s commentary and a whole disc of extras • Blue moon, blue planet • “How many Tracy and Hepburn films are there?” • Mahler rearranges your listening room furniture • The sound of a hypertraction ion cannon in deep space near the Crab Nebula • The music playing when you proposed... wherever you want to go, Harman Kardon can take you there.



Passion in full view — the marriage of audio and video.

Movies, sound and music have been together since Jolson sang, Fred and Ginger danced and Rocky Horror went to the picture show.

While some credit digital technology for marrying the intensity of sight to the pleasure of sound, the use of music to enhance a film's storyline has been there from the beginning. Indeed, even before "The Jazz Singer" ended the silent movie era forever, operatic tenors were used for early movie sound experiments. From Busby Berkley in the Thirties to extravaganzas in the Fifties . . . from Elvis's "Jailhouse Rock" to rock operas of the Sixties and Seventies . . . from the peace and love of "Woodstock" to the grim drama of "Apocalypse Now," music and movies have always gone hand in hand.

Even when music isn't at the forefront of the drama, it often provides the signature that binds our emotions to a film. Think of the banjo accompaniment in "Deliverance." It seems simple, yet at the same time is a key part of a multilayered story. Recall the memorable songs that set the mood of "Midnight Cowboy" or "American Graffiti." No, these movies weren't musicals, but without music they wouldn't have been the same.

Sometimes just a few musical notes forever become a part of our movie experience. The foreboding cello stabs in Jaws, the tone code pattern of "Close Encounters," the four notes of Strauss we will forever associate with images of the ape and the monolith in

"2001: A Space Odyssey." Would your vision of these films be the same without the sound bites to which they are forever linked?

Today, sound is an essential element of every movie — think of "Gladiator," "Moulin Rouge," "O Brother, Where Art Thou?" or "The Phantom Menace." Space ships or jets fly from one corner of the screen to another. Cars — even entire universes — explode before your eyes. Aliens converse and even sing in strange tongues. Computers whirl, clocks tick, engines roar, and everything has to be positioned in the proper place to mesh seamlessly as the story unfolds on the screen.

Thanks to the use of digital audio technology in both the creation and playback of cinema soundtracks, movies are, to use the old slogan, "better than ever." Using some of that same digital technology, Harman Kardon brings the total sensory side of the movie experience home, complete with lush soundtracks, precisely positioned effects and flawless dialogue reproduction. In addition, our DVD players produce perfect pictures to match the sound.

Movies and music. We've all enjoyed that seat in a darkened theater, that magical place where pictures and sound come together. Now, with Harman Kardon, you can bring that best seat in the house right into your own home.

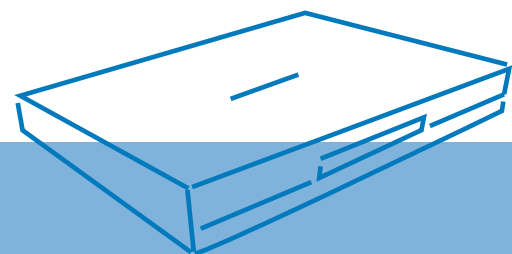


DVD 31 DVD Audio/Video Player

Capable of playing DVD, DVD-Audio, MP3, Windows Media and JPEG discs, the DVD 31 is as versatile as they come. And with enhanced pixel-by-pixel progressive scan video processing and an audio control system that includes bass management, delay settings and output-level trims, whatever goes in will come out looking and sounding its absolute best. No company is better at reproducing the magic of a musical performance or theatrical presentation than Harman Kardon, as the DVD 31 brilliantly demonstrates.

DVD 22 Progressive Scan DVD Player

Picture quality is not just a question of resolution, but how the image is decoded. The DVD 22 uses pixel-by-pixel – rather than line-based – processing to produce a noticeably sharper image. Compatible with DVD, MP3, Windows Media® and JPEG discs, the DVD 22 features high-end DACs, a built-in test signal and backlit remote for outstanding video and audio performance.



Play>. Hear the thunder; see the lightning. High-quality pictures and sound are what DVD is all about. Harman Kardon DVD players feature advanced circuitry for maximum resolution when used with the latest high-definition video displays and multichannel audio systems, and an exclusive custom-designed menu



FL 8385 CD Changer

If you want high-quality music playback that can run uninterrupted throughout the day – or for the length of the party – the FL 8385 is for you. This five-disc CD changer has a wide range of programming options to play back the perfect mix while High Definition Compatible Digital® (HDCD®) processing delivers the most realistic sound processing to date from both HDCD-encoded and standard discs. High-end Burr-Brown® digital processors convert the digital signals back to analog without inducing any artifacts; or use the coax digital output to connect the FL 8385 directly to the processor in your AV receiver.

CDR 26 Dual-Drawer CD-R/RW Player/Recorder

Think of the CDR 26 as a "dubbing cassette deck for the digital millennium." Make your own custom CDs with just your favorite tracks, or copy an entire disc using inexpensive CD-R blanks. The CDR 26's 4X dubbing speed allows you to copy an hour-long program in fifteen minutes – and speed up other key recorder functions. It also features synchronized recording from external sources: the recorder starts at exactly the same time as the source, which can be digital or analog. Finally, the CDR 26 is also a superb CD player with continuous two-disc or one-time/one-disc playback, headphone jack with level control and full-featured ergonomic remote control.

system which lets you take full advantage of the DVD format's features. Our passion for quality ensures that you'll enjoy a level of realism that surpasses anything you've ever seen or heard before.

To view every model, visit
www.harmankardon.com



HKTS 14 5.1 Home Cinema Speaker System

The HKTS 14 home cinema system combines a 12-inch, 200-watt subwoofer with magnetically shielded, two-way center channel and satellite speakers. Advanced features include line-level Sub/LFE input, music-sensing on/off and multicolor LED power indicator. Wall-mount brackets for the satellite speakers are included.



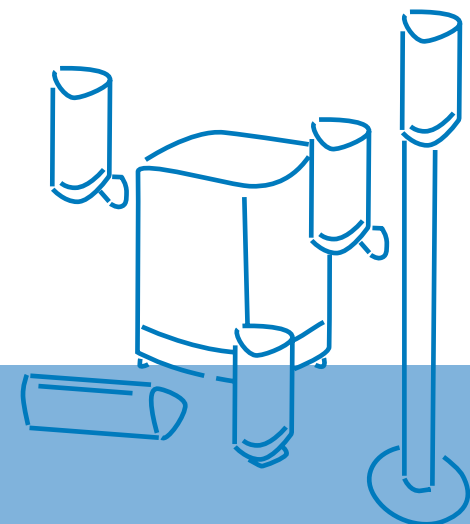
HKTS 7 5.1 Home Cinema Speaker System

Enjoy big movie sound from a remarkably compact matched system. The HKTS 7 includes a 10-inch subwoofer with built-in 100-watt amplifier, four compact speakers with 3-inch midrange and 1/2-inch high-frequency transducers, and a voice-matched, dual-midrange center channel speaker with a 3/4-inch-dome tweeter. Wall-mount brackets for satellite speakers are included.



HTFS 2 Floor Stands

These slim-profile, distinctively designed floor stands elegantly accent any décor. Aluminum-extrusion columns have a self-contained wire-management system and are ideally matched to both the HKTS 7 and HKTS 14 satellite speakers.



Prix fixe: Integrated Harman Kardon home theater speaker systems. Our HKTS 14 and HKTS 7 Home Cinema Speaker Systems take the guesswork out of choosing a surround sound system. Frequency response, dispersion and dynamic ranges of each individual component have been carefully matched so that front, rear and center channels blend together instead of competing with each other. The HKTS system

subwoofers have been tuned to seamlessly extend low-frequency response without “boominess” or loss of midrange detail. We’ve also paid special attention to styling: HKTS systems fit unobtrusively into any room décor. If you want a unified, easy-to-set-up home cinema system, you won’t find a better solution than the HKTS 14 and HKTS 7.

System Solutions



DPR 1001
DVD 31
HKTS 14

Seven channels. All-digital.
All ready to set up and enjoy.



AVR 630
DVD 31
HKTS 14

Advanced 7.1 home theater and music
enjoyment.

System Solutions



AVR 130
DVD 22
HKTS 7

High-fidelity home theater and music on a budget.

Specifications.

Model	DPR 1001
Power (FTC)	50 x 7
THD	0.19%
Power per EIA 490A	65 x 7 @ 8 Ohms
Impedance	8 Ohms
Bandwidth	20Hz – 20kHz
Bandwidth @ 1W (+0, -3dB)	20Hz – 22kHz
PWM Digital Amplifiers	Yes
Fully Digital Path From Input to Output	Yes
High-Efficiency Amplifiers>80%	Yes
Negative Feedback	None
TIM Distortion	None
7.1-Channel Capability	Yes, with 7 channels amplification and subwoofer preout
Surround Back Amplifiers Configurable for Second Zone	Yes
DSP Processor	Cirrus® CS49326
Dolby Digital EX 6.1	Yes
Dolby® Digital	Yes
Dolby Pro Logic® II	Yes (Music, Movies and Emulation modes)
DTS® 5.1	Yes
DTS-ES® 6.1 Discrete and Matrix	Yes
DTS Neo:6®	Yes
Logic 7®	Yes (5.1 and 7.1) Music & Cinema modes 96kHz capability
VMAx®	Yes (Near and Far modes)
VMAx Available Through Headphones	Yes (Near and Far modes)

Model	AVR 7200	AVR 630	AVR 430	AVR 330	AVR 230	AVR 130
Stereo Power (FTC)	115 x 2	90 x 2	80 x 2	70 x 2	65 x 2	55 x 2
Multichannel Power (FTC)	100 x 7	75 x 7	65 x 7	55 x 7	50 x 6	45 x 5
THD	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms	8 Ohms	8 Ohms
HCC (Amps)	±75	±50	±40	±35	±35	±25
Bandwidth @ 1W (+0, -3dB)	10Hz – 100kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz
Signal-to-Noise Ratio (IHF-A)	95dB	100dB	100dB	100dB	100dB	100dB
Dual, Independent Power Suppliers for Front and Rear Channels	Yes	Yes	Yes	Yes	Yes	Yes
Toroidal Power Transformer	Yes	No	No	No	No	No
IEC Detachable Power Cord	Yes	Yes	Yes	No	No	No
6.1/7.1-Channel Capability	Seven amplifier channels and 7.1 preamp outputs	Seven amplifier channels and 7.1 preamp outputs	Seven amplifier channels and 7.1 preamp outputs	Seven amplifier channels and 7.1 preamp outputs	Six amplifier channels and 7.1 preamp outputs	No
Surround Back Amplifiers Assignable to Second Zone	Yes	Yes	Yes	Yes	N/A	N/A
Dolby® Digital	Yes	Yes	Yes	Yes	Yes	Yes
Dolby Digital EX	Yes	Yes	Yes	Yes	Yes	No
Dolby Pro Logic® II	Yes	Yes	Yes	Yes	Yes	Yes
DTS® 5.1	Yes	Yes	Yes	Yes	Yes	Yes
DTS-ES® 6.1 Discrete and Matrix	Yes	Yes	Yes	Yes	Yes	No
DTS 96/24	No	Yes	Yes	No	No	No
DTS Neo:6®	Yes	Yes	Yes	Yes	Yes	No
Logic 7®	Yes, 96kHz capability	Yes, 96kHz capability	Yes, 96kHz capability	Yes	Yes	Yes
VMAx®	Yes	Yes	Yes	Yes	Yes	Yes
Dolby Virtual Speaker	No	Yes	Yes	No	No	No
Headphone Modes	VMAx®	VMax® Dolby® Headphone	VMax® Dolby® Headphone	VMAx®	VMAx®	VMAx®

Model (continued)	DPR 1001
5-Channel Stereo	Yes
7-Channel Stereo	Yes
Digital Stereo Mode With Programmable Bass Management	Yes
Triple Crossover Bass Manager	Yes
Digital Bass Management of 6-/8-Channel Direct Inputs	Yes
MP3 (S/PDIF In)	Yes
Output DACS for Preouts	192kHz/24-bit Cirrus Logic®
Color-Coded Speaker Terminals	Binding posts
Fully Color-Coded Rear-Panel Connections	Yes
Wideband, HDTV-Ready Component Video	Yes
S-Video	Yes
AV Inputs	5
Audio Inputs	4
Multichannel Direct Inputs	Yes (6- and 8-channel)
Preamp Outputs	All channels
Digital Inputs	2/2 Rear panel, 1/1 front panel
Digital Outputs	1/1 Rear panel, 1 coax front panel (switchable from input)
Front-Panel AV Input With S-Video	Yes, also switchable to output
Multizone	Audio
On-Screen Display	Yes
Programmable Power-Up Volume	Yes
System Remote	EzSet 8-device programmable, backlit, learning, with 2-line LCD display
Zone II Remote	Yes
Separate Remote Power On/Off Modes	Yes
IR In/Out Jack	Yes
Dimensions (H x W x D)	4-3/4" x 17-3/4" x 18-3/4"
Weight	17 lb

Model	AVR 7200	AVR 630	AVR 430	AVR 330	AVR 230	AVR 130
AV Inputs	5	5	5	5	5	4
S-Video Inputs	5	5	5	5	5	4
Audio Inputs	4	4	4	4	4	3
Digital Inputs (Coax/Optical)	Rear panel: 2/2 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/1
Digital Outputs (Coax/Optical)	Rear panel: 1/1 Front panel: 1/1	Rear panel: 2/2 Front panel: 1/0	Rear panel: 1/1	Rear panel: 1/1	Rear panel: 1/1	Rear panel: 1/1
Direct Audio Inputs	6-/8-Channel	6-/8-Channel	6-/8-Channel	6-/8-Channel	6-/8-Channel	6-Channel
Preamp Outputs	All channels	All channels	All channels	All channels	All channels	Subwoofer
Multizone audio	Yes, with remote	Yes, with remote	Yes, with remote	Yes, with remote	No	No
On-Screen Display	Yes	Yes	Yes	Yes	Yes	No
DSP Processor	Cirrus® CS49326	Cirrus® CS49400	Cirrus® CS49400	Cirrus® CS49326	Cirrus® CS49326	Cirrus® CS49326
Output DACs	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit
Bass Management	Triple crossover	Quad crossover	Quad crossover	Triple crossover	Triple crossover	Triple crossover
Bass Management on 6-/8-Channel Direct Inputs	Yes	Yes	No	No	No	No
HDCD® Decoding	Yes	Yes	No	No	No	No
Wide-Bandwidth Component Video Inputs	2	2, assignable	2, assignable	2	2	None
A-BUS Ready®	Yes	Yes	Yes	No	No	No
System Remote	EzSet 8-device programmable, backlit, learning with 2-line LCD display	EzSet 8-device programmable, backlit, learning with 2-line LCD display	EzSet 8-device programmable, backlit, learning with 2-line LCD display	EzSet 8-device programmable	EzSet 8-device programmable	7-Device programmable
RS-232 Port	Control	Two-way control & upgrade	Two-way control & upgrade	No	No	No
IR In/Out Jacks	Yes	Yes	Yes	Yes	Yes	No
Renameable Inputs	No	Yes	Yes	No	No	No
AV Sync Delay	No	Yes	Yes	No	No	No
Digital Input Polling	Video 2/Coax 1 input	Yes	Yes	No	No	No
HD Radio Upgrade Slot	No	Yes	Yes	No	No	No
Dimensions (H x W x D)	7-5/8" x 17-5/16" x 20-1/2"	6-1/2" x 17-5/16" x 13-13/16"	6-1/2" x 17-5/16" x 13-13/16"	6-5/8" x 17-5/16" x 15"	6-5/8" x 17-5/16" x 15"	6-5/8" x 17-5/16" x 15"
Weight	53 lb	41 lb	39 lb	31 lb	28 lb	24 lb

Model	HK 3480	HK 3380
Power (FTC)	120 x 2	80 x 2
THD	<0.07%	<0.07%
Impedance	8 Ohms	8 Ohms
Bandwidth	20Hz – 20kHz	20Hz – 20kHz
HCC (amps)	±45	±42
Bandwidth @ 1W (+0, –3dB)	10Hz – 110kHz	10Hz – 110kHz
Discrete Amplifier Output Devices	Yes	Yes
VMAx®	Yes	No
Audio Inputs	7	7
Video Inputs	4 (1 on front panel)	4 (1 on front panel)
Video Outputs	1	1
Phono Input	Yes	Yes
Tape Monitor Loop	Yes	Yes
Tuner	FM stereo/AM with 30 presets and direct-access tuning	FM stereo/AM with 30 presets and direct-access tuning
A/B Speaker Switching	Yes	Yes
Subwoofer Output	Yes	Yes
Preamp Outputs/ Main Amp Inputs	Yes	Yes
Accessory Outlets	2 Switched	2 Switched
System Remote	Yes	Yes
Separate Remote On/Off Buttons	Yes	Yes
Dimensions (H x W x D)	6-5/8" x 17-5/16" x 15"	6-5/8" x 17-5/16" x 15"
Weight	26.8 lb	24.6 lb

Model	PA 4000	PA 2000
Power (FTC)	45 x 8	45 x 4
Bridge Mode 1 Power	100 x 2 Plus 45 x 4	100 x 2
Bridge Mode 2 Power	Bridgeable to 100 x 4	N/A
THD	<0.07%	<0.07%
Impedance	8 Ohms	8 Ohms
Bandwidth	20Hz – 20kHz	20Hz – 20kHz
HCC (Amps)	±45	±45
Bandwidth @ 1W (+0, –3dB)	<1Hz – 200kHz, –3dB @ 1 watt	<1Hz – 170kHz, –3dB @ 1 watt
Dual Source Inputs	Yes	No
Discrete Amplifier Output Devices	Yes	Yes
Fanless Cooling Design	Yes	Yes
Designed for Long Speaker Wire Runs	Yes	Yes
Low-Impedance Capability	Yes	Yes
Parallel Line-Level Outputs	Yes	Yes
Music-Sense Auto On/Off	Yes	Yes
Low-Voltage Trigger Jack	Yes	Yes
Independent Volume Controls for Each Channel	Yes	No
Rear-Panel Trim Pots for Output Level Adjustment	No	Yes
Optional In-Wall Keypads (KP 1) for Volume and Power Control	Yes	No
Gold-Plated, 5-Way Binding Posts	Yes	Yes
Dimensions (H x W x D)	7-5/16" x 17-3/8" x 18-5/16"	6-1/8" x 17-3/8" x 15-3/4"
Weight	47 lb	25.3 lb

Model	KP 1	AB 1
Product Type	In-wall keypad	A-BUS Ready® in-wall module with built-in amplifier
System Requirements	Use with PA 4000 power amplifier via Cat.5 cable. May be used with optional IR sensor made by third party. Compatible with user-supplied Decora® wall plate.	Use with AVR 7200, AVR 630, AVR 430 via Cat. 5 cable. Includes IR sensor for pass-through of remote commands. Use with 4 – 8-ohm speakers.
Dimensions (H x W x D)	4" x 1-3/4" x 2-1/4"	4-1/4" x 1-3/4" x 2-1/4"
Weight	0.25 lb	0.25 lb

Model	DVD 31	DVD 22
Description	Single-disc DVD audio/video player	Single-disc DVD video player
Video Playback Formats	DVD, DVD-R/RW, DVD+R/RW, VCD, SVCD	DVD, DVD-R/RW, DVD+R/RW, VCD, SVCD
Audio Playback Formats	DVD-Audio, CD, CD-R, CD-RW, MP3, Windows Media®	CD, CD-R, CD-RW, MP3, Windows Media®
Still Image Playback Formats	JPEG	JPEG
Dolby® Digital Pass-Through	Yes	Yes
DTS® Pass-Through	Yes	Yes
Audio Output DACs	Wolfson 192kHz/24-bit	Wolfson 192kHz/24-bit
Video Output DACs	27MHz – 54MHz/10-bit	27MHz – 54MHz/10-bit
Progressive Scan Output	Yes, with 3/2 pull-down, reconstruction and pixel-by-pixel scaling	Yes, with 3/2 pull-down, reconstruction and pixel-by-pixel scaling
Video Test Screen	Yes, with image adjustments	Yes, with image adjustments
Video-Off Mode	Yes (for audio playback)	Yes (for audio playback)
Programmed Play	1 track, 1 disc, A/B	1 track, 1 disc, A/B
Digital Outputs	Coax, optical	Coax, optical
Remote	Backlit	Backlit
Discrete On/Off Commands	Yes	Yes
IR In/Out Jacks	Yes	Yes
Dimensions (H x W x D)	2" x 17-5/16" x 12"	2" x 17-5/16" x 12"
Weight	7.5 lb	7.5 lb

Model	FL 8385	CDR 26
Description	5-Disc CD changer	Dual-drawer CD-R/RW recorder
Plays CD-R	Yes	Yes
Plays CD-RW	Yes	Yes
HDCD®	Yes	No
Dub Speed	N/A	4x Discs or single tracks; 2x programmed playlists
Audio Output DACs	18-Bit Burr-Brown®	AKM 192kHz/24-bit
Programmed Play	20 Tracks	32 Tracks
Repeat Play	1 Track, 1 CD, all CDs	1 Track, 1 CD, A-B, continuous play from both decks
Digital Outputs	Coax	Coax, optical
Digital Inputs	N/A	4 Independent coax and optical, front and rear panels
Headphone Jack With Level Control	Yes	Yes
Recording Level Control	N/A	Analog
Remote	Yes	Yes
Separate Remote On/Off Buttons	Yes	Yes
IR In/Out Jacks	Yes	Yes
Dimensions (H x W x D)	5-1/8" x 17-5/16" x 15-1/4"	4-3/8" x 17-5/16" x 14-3/16"
Weight	18 lb	10.6 lb

Model	HKTS 14	HKTS 7
Satellites	4 Identical 2-way satellites with dual 3" midrange and 3/4"-dome tweeter, video-shielded	4 Identical 2-way satellites with 3" midrange and 1/2"-dome tweeter, video-shielded
Center Channel Speaker	Voice-matched, dual-driver with two 3" midrange and 3/4"-dome tweeter	Voice-matched, dual-driver with two 3" midrange and 3/4"-dome tweeter
Subwoofer	200-Watt, bass-reflex powered subwoofer with 12-inch driver	100-Watt, bass-reflex powered subwoofer with 10-inch driver
Impedance	8 Ohms (sats & center)	8 Ohms (sats & center)
Sensitivity	90dB (sub)	90dB (sub)
SPL @ 1 Watt/Meter	>86dB (sats & center)	>86dB (sats & center)
Frequency Response	25Hz – 20kHz	35Hz – 20kHz
Line-Level Inputs	RCA jacks	RCA jacks
Speaker-Level Inputs & Outputs	Binding posts	Binding posts
Recommended Amplifier Power	10W – 120W	10W – 80W
Phase Switch	Yes	Yes
Cables Included	Yes	Yes
Wall-Mount Capability	Brackets included for 4 satellites	Brackets included for 4 satellites
Music Sense Turn-On	Yes	Yes
Low-Pass Filter Switch	Yes	Yes
Dimensions (H x W x D)	Sats: 9-9/16" x 3-15/16" x 3-5/8" Center: 4" x 9-1/2" x 3-5/8" Sub: 20-1/2" x 14-1/2" x 14-1/2"	Sats: 6-9/16" x 3-15/16" x 3-5/8" Center: 4" x 9-1/2" x 3-5/8" Sub: 18-7/8" x 13-3/8" x 13-3/8"
Weight	Sats: 2.2 lb Center: 2.2 lb Sub: 48 lb	Sats: 1.4 lb Center: 2.2 lb Sub: 33 lb

Model	HTFS 2*
Aluminum-Extrusion Column	Yes
Wire-Management System	Yes
Height With HKTS 7 Sat	38-9/16"
Height With HKTS 14 Sat	41-9/16"
Dimensions (H x W x D)	32" x 9" x 7"
Weight	7.5 lb ea.

*Some assembly required

All features and specifications are subject to change without notice.

NOTE: Depth measurement includes knobs, buttons and terminal connections; height measurement includes feet and chassis.

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