

harman/kardon®
Power for the Digital Revolution.®

harman/kardon®

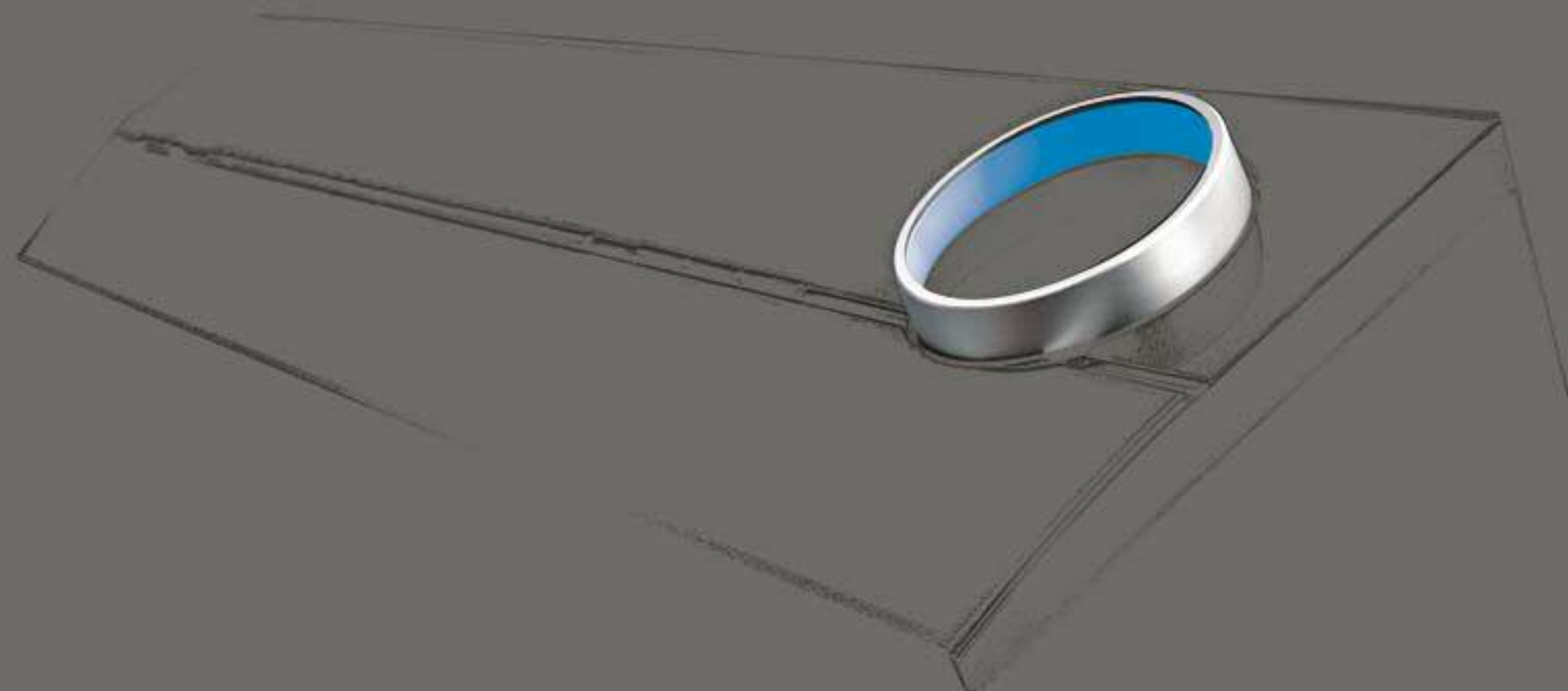
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H A Harman International Company



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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.

Producing pure, realistic sound with ever-smarter engineering and ever-simpler design, Harman Kardon products lead the industry – and delight both audio purists and film lovers around the world. We invite you to experience the unique combination of artistry and engineering that is Harman Kardon.

Ever-smarter engineering, ever-simpler design.





"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?'"

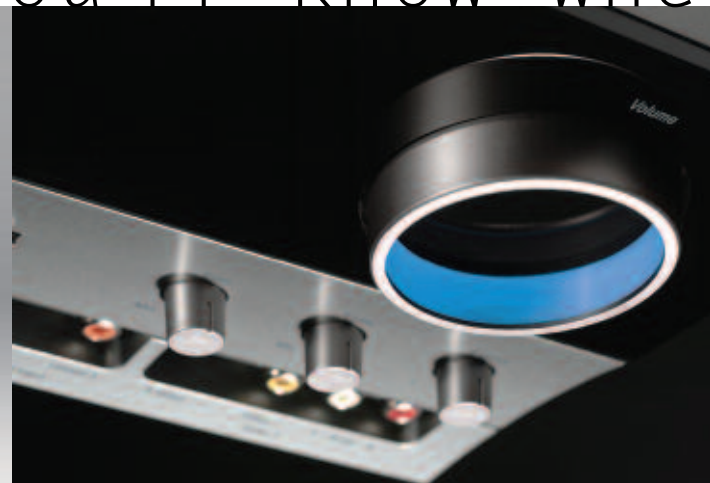
“We’re driven by a passion for music and cinema.”

"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



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 collector's item.

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® – the first branded computer speakers to win design awards.

2001



Our patented EzSet™ remote lets you automatically calibrate your surround system.

2002



Harman Kardon introduces the world's first receivers with fully color-coded rear-panel connections for easy setup.

2002



We debut the first stand-alone A/V receiver with a fully digital signal path from input to speaker outputs – the DPR 1001.

2002



Leading luxury automakers include Harman Kardon high-performance systems that feature Logic 7.®

2003



Harman Kardon celebrates its 50th anniversary.

2005



EzSet/EQ™ and EzSet+™ revolutionize system setup and calibration.



The right combination of power, performance, flexibility and ease of use.

Harman Kardon receivers deliver full-rated power to ALL channels simultaneously, making sure that music and movies are reproduced with full impact, the way they were meant to be heard.

Select Harman Kardon receivers and all Harman Kardon DVD players may be easily updated when needed, adding new features and functionality for years to come.

Every Harman Kardon multichannel receiver includes our exclusive Logic 7 technology which creates enveloping five- or seven-channel sound fields from almost any stereo or surround-encoded source.

A-BUS/*READY*® connectivity, configurable rear surround amplifiers and a standard Zone II remote make it incredibly easy to bring Harman Kardon sound to other rooms in the house.

EzSet/EQ and EzSet+ make system setup easier than ever by setting speaker parameters, output levels, delay times and much more to deliver the best sound possible – automatically! (Available on select AVR models.)

Thanks to convenient front-panel jacks that may be switched from input to output, Harman Kardon makes it easy to connect portable products to your home theater system.



Once a technical rarity, digital technology is now an integral part of everyday life. While everything from cars to washing machines is now controlled by digital processors, the world of audio seems to have put only four of its five toes in the digital waters. Since the introduction of the compact disc, playback has virtually become an exclusive digital domain, one that now extends to DVD. Even video is on the digital bandwagon, thanks to the stunning high-resolution imaging and Dolby Digital sound of HDTV.

For all of that, audio/video is still a sea of digital islands connected by analog bridges. To put that final toe in the digital water, it is necessary to avoid converting signals back and forth between analog and digital, as is the case in nearly all products, even those that boast digital amplification. No brand has made the full commitment to keep digital "digital" from input or initial conversion straight through to the speaker outputs.

Until now.

and heat-producing power transistors and their large, heavy heatsinks are used. Instead, totally digital amplifier circuitry and a switch-mode power supply are used to power the system.

The end result is a lighter receiver with uncompromised power and performance, and a significantly lower profile. This gives you more freedom for the placement of home entertainment components, since a DPR receiver can go where you never thought a high-quality audio system would fit.

Because they are from Harman Kardon, the DPRs don't scrimp on features and flexibility. Others use digital amplifiers simply to save space, but they lack the power and refinement of a DPR. Our exclusive Logic 7 processing is complemented by the latest Dolby Digital decoding and processing modes, including Dolby Pro Logic® IIx, Dolby Headphone and Dolby Virtual Speaker modes. DTS-ES®, DTS® 96/24 and DTS Neo:6®? The DPRs have them. Seven high-power audio channels? We wouldn't have it any other way! A full

Harman Kardon's digital path receiver technology.

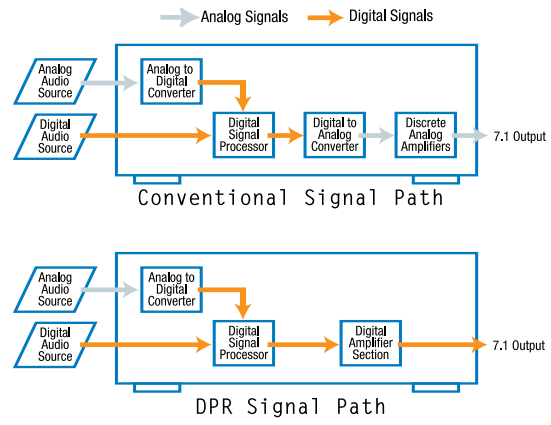
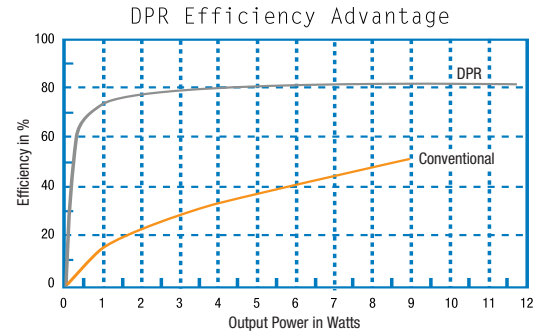
With our breakthrough digital path receivers, Harman Kardon finally unites those digital islands to avoid the introduction of noise each time a signal is changed from one form to another. No matter how good the converters are – and Harman Kardon uses some of the best available in our analog-based products – some change to the signal is inevitable.

That interference is all but eliminated in our DPR 1005 and DPR 2005 Digital Path Receivers, with the additional benefit of being able to make the receiver more compact while delivering more, not less, power. How is this done? By taking advantage of the incredible system efficiency of the all-digital design – in excess of 80% as compared to slightly more than 55% in an analog design – less power is wasted. That, in turn, means there is less heat to remove than when inefficient linear power supplies, oversized transformers,

multizone system, complete with assignable amplifier channels to power it right out of the DPR and a standard Zone II remote? Standard on our DPRs. The list goes on and on. After all, the DPRs are Harman Kardon receivers at heart, and no one knows how to build a receiver better than the company that invented the receiver more than 50 years ago.

And then there's the sound. It's everything you expect from Harman Kardon, and more.

Technology benefits are a bonus, but ultimately it's the music and movies that count. That was the reason that digital technology was originally applied to home entertainment. With Harman Kardon's new digital path receivers, the promise of Power for the Digital Revolution is once again fully realized.



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.

EzSet/EQ & EzSet+

If you can't wait to set up a new receiver or are simply technology-shy, Harman Kardon has the answer you have been waiting for. Both EzSet/EQ and EzSet+ use a high-precision microphone to test and control circuitry on board for quick and easy calibration of speaker settings, output levels and delay times with accuracy that rivals expensive test gear. EzSet/EQ (AVR 635 and AVR 435) adds proprietary software to equalize the system to optimize the receiver's output so that it matches the sonic signature of your speakers and each room's individual characteristics.



(Actual size is 2-1/4" high by 1-1/2" diameter.)



AVR 635 7 x 75W 7.1-Channel Receiver

Power meets power. The AVR 635 combines the sonic power of a high-current, ultrawide-bandwidth amplifier with the computing power of Texas Instruments' most advanced audio DSP to deliver unparalleled performance. Thanks to Harman Kardon's advanced EzSet/EQ functionality, the AVR 635 not only automates speaker, output and delay settings; it corrects for room acoustics with a parametric equalizer. Add video conversion circuits that output all video sources via component connections with on-screen graphics, and you have the power to tame any system and deliver powerful performance.

AVR 435 7 x 65W 7.1-Channel Receiver

Perfect home theater, no waiting! Thanks to EzSet/EQ, setting up the AVR 435 is quick and simple. Plug in the compact microphone, press a few buttons, wait a few minutes for test tones to calibrate the system, and you're ready to rock. No more complex configuration settings, just precise measurements made automatically. Once you're ready to listen, you'll find the latest in DSP technology, with all the popular surround modes, a high-current amplifier, a host of second-zone possibilities and high-current power to spare.

AVR
AV Receivers

Powered for today and tomorrow! Harman Kardon AV receivers define their power by more than just the traditional benchmarks of watts and dBs. Rather, their power is expressed by the capabilities of the processors that drive the units, software upgradeability and RS-232 control, assignable wide-bandwidth component video inputs and AV Sync Delay features. This lets you accommodate today's sources and the high-resolution audio and video products to come.



ABH 4 4-Room A-BUS Expansion Hub

The ABH 4 extends A-BUS® capability of any Harman Kardon A-BUS/READY® receiver to four rooms, or even more when additional ABH 4 hubs are used. With the ABH 4, no room in the house need be without music! Thanks to onboard audio inputs, the ABH 4 may also bring the ease of A-BUS to any multichannel or stereo receiver with a "Tape" or "Multiroom" output; you can even use it directly with a single CD or DVD player or outboard tuner to bring music to any room.



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

The innovative A-BUS system makes it incredibly easy to bring Harman Kardon sound to a remote room. Connected via a single cable, the AB 1 powers most in-wall speakers from its internal amplifier, with volume controlled by the up/down toggle or a Harman Kardon remote. A built-in IR sensor completes the package, making it simpler than ever to enjoy music throughout the house.

A-BUS
Components

Single-cable, multiroom. The innovative A-BUS system uses a single Category 5/5e cable connection to deliver audio signals and power to remote room modules with built-in amplifiers to power in-wall speakers. IR signals from the remote room also travel on the same cable for complete system control. A-BUS is the easiest way to extend Harman Kardon power to any room in the house.

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AVR 235 7 x 50W 7.1-Channel Receiver

The AVR 235 brings new life to movies and music, thanks to a wide variety of 7.1-channel decoding and processing modes, including Dolby Digital, Dolby Pro Logic IIx, Logic 7 and DTS-ES. An EzSet remote and on-screen menus simplify installation, while multiple inputs and outputs let you connect to any analog or digital source, including component video. With the AVR 235, your speakers never heard it so good!



Shown with front-panel covers.

AVR 135 6 x 40W 6.1-Channel Receiver

Don't let the AVR 135's price fool you! Our most affordable A/V receiver has on-screen menus, 50MHz bandwidth component video switching and, of course, our world-renowned high-current, ultrawide-bandwidth amplifier design. If you are looking for a way to upgrade your analog system to the latest in digital home theater, or are putting together your first system, the AVR 135 delivers theater-quality sound at a budget-sensitive price.

AVR 335 7 x 55W 7.1-Channel Receiver

System setup, no tools required. No matter how comfy your listening room, it would benefit from fine-tuning, and with EzSet+,™ the AVR 335 does that electronically, thanks to an advanced DSP and high-precision microphone (included at no extra cost). Once it's calibrated, a high-current amplifier, precise DSP and wealth of convenience features make it easy to sit back and enjoy your movies and music.



HK 3480 2 x 120W Stereo Receiver

When two channels are all you need, make it two ultrawide-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, a phono preamp, pre-out/main-in jacks, gold-plated phono inputs and a 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 a multicomponent system remote control, a 30-preset AM/FM section, a phono preamp, a subwoofer output, a dimmable fluorescent display, pre-out/main-in jacks and even a nine-step, 90-minute sleep timer.

AVR
A/V Receivers

Performance to be proud of, modestly priced. Listeners and reviewers around the world have long accorded Harman Kardon receivers "best in class" status. Even our most modestly priced receivers feature a high-current, ultrawide-bandwidth amplifier design and an elegant appearance.

Purely musical. Exquisitely accurate. Is a stereo receiver obsolete in a digital, multichannel world? Hardly. Harman Kardon's stereo receivers are the electronic equivalent of an elegant analog wristwatch in a world filled with digital chronometers. The HK 3480 and HK 3380 are designed to deliver pure, accurate music – the way it was meant to be heard.

STEREO
Receivers

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I could have danced all night • Georgia on my mind • “Ladies and gentlemen, The Beatles!” • 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 the sound of (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” •

Wherever you want to go,
Harman Kardon can take you there.

We’ll always have Paris • Super fly me to the moonstruck • It’s been a hard day’s night • “We don’t need no steenking badges!” • I’ll be back • Mood Indigo • 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.

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.



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 for DVD-Audio 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 Players

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



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 you can use the coax digital output to connect the FL 8385 directly to the processor in your A/V receiver.

CD Changer

custom-designed menu system which lets you take full advantage of the DVD format's features. You'll enjoy a level of realism that surpasses anything you've ever seen or heard before.

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HKS 4 Surround Loudspeakers

Unleash the 7.1-channel capability of your new AVR or DPR with these elegant loudspeakers. Mirroring the styling of the HKTS 14, they deliver new dimensions in audio performance.



HKTS 14 5.1 Home Theater Speaker System

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



HKTS 8 6.1 Home Theater Speaker System

Enjoy big movie sound from a remarkably compact, fully matched system. The HKTS 8 includes five satellite speakers with 3-inch midrange and 1/2-inch high-frequency drivers, and a voice-matched, dual-midrange center channel speaker with a 3/4-inch-dome tweeter. Heart-pounding bass is provided by a 10-inch subwoofer with a built-in 100-watt amplifier. Wall-mount brackets for the satellite speakers are included.



HKS 3 Surround Loudspeakers

Expand your HKTS 8 or any 5.1-channel speaker system to the full realism of seamless 7.1-channel surround, without taking up space.

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 the HKTS 8, HKTS 14, HKS 3 and HKS 4 satellite speakers.

HOME THEATER

Speaker Systems

Prix fixe: Harman Kardon's home theater speaker systems. Our HKTS 14 and HKTS 8 systems take the guesswork out of choosing the right speakers to match your other home theater components. Engineered to work as a unified system, their frequency response, dispersion and dynamic range have been carefully matched so that all the speakers in a multichannel system blend together, instead of

competing with one another. We've paid special attention to the styling: HKTS systems complement any room décor, and perfectly match Harman Kardon's components and today's flat-screen video displays.

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CP 35 7.1-Channel Home Theater System With DVD-Audio and EzSet+

Full power, from start to finish! The CP 35 includes a DVD 31 to play back movies, music and the latest DVD-Audio releases, an AVR 335 which simplifies setup, thanks to EzSet+, and a 7.1 speaker system with the HKTS 14 and HKS 4 to fill your home with the movies and music you want to hear. The CP 35 sets a new standard for high-performance home theater systems.

CP 25 7.1-Channel Home Theater System

Our most affordable complete 7.1 home theater system ever. The CP 25 combines the AVR 235's high-current amplification with the pixel-by-pixel processing and progressive scan capability of the DVD 22 and the sonic perfection of HKTS 7 and HKS 3 speakers.



CP 15 6.1-Channel Home Theater System

Why settle for ordinary "home theater in a box" when the CP 15 delivers the high performance of Harman Kardon components to enthusiasts on a budget? With the combination of the AVR 135, DVD 22 and HKTS 8, you have the power and flexibility you desire at a price you can afford.

HOME THEATER

Systems

Complete systems, complete performance. For Harman Kardon, home theater systems are more than a combination of multiple functions in a single product, packed with a few speakers. By taking advantage of our "best in class" components and speakers, all operated with a single remote, you get the best of

both worlds: the ease of use from having all the elements of a home theater system in one package, and the legendary performance of Harman Kardon.

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Life is short. Too short for compromises, shortcuts and mediocrity. For more than 50 years, Harman Kardon has stood for excellence in the engineering, design and manufacture of products that satisfy our passion for perfection in music and movies. If it's a passion you share, we invite you to join us for heightened listening experiences at home, on the road and at your desk. Enjoy.

Surround yourself with the very finest.



Shown: DVD 22, DPR 2005, HTKS 14, HTFS 2 and SoundSticks®

Specifications.

Model	DPR 2005	DPR 1005	AVR 7300	AVR 635	AVR 435	AVR 335	AVR 235	AVR 135
Description	7.1-Channel Digital Path Receiver	7.1-Channel Digital Path Receiver	7.1-Channel Audio/Video Receiver	7.1-Channel Audio/Video Receiver	7.1-Channel Audio/Video Receiver	7.1-Channel Audio/Video Receiver	7.1-Channel Audio/Video Receiver	6.1-Channel Audio/Video Receiver
Stereo Power (FTC)	120 x 2	70 x 2	125 x 2	90 x 2	80 x 2	70 x 2	65 x 2	50 x 2
Multichannel Power (FTC)	120 x 7	70 x 7	110 x 7	75 x 7	65 x 7	55 x 7	50 x 7	40 x 6
Amplifier Type	Advanced PWM	Advanced PWM	High Current ±75 amps	High Current ±50 amps	High Current ±40 amps	High Current ±35 amps	High Current ±35 amps	High Current ±25 amps
THD @ Impedance	0.15% @ 8 ohms	0.15% @ 8 ohms	0.07% @ 8 ohms	0.07% @ 8 ohms	0.07% @ 8 ohms	0.07% @ 8 ohms	0.07% @ 8 ohms	0.07% @ 8 ohms
Bandwidth	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz	20Hz – 20kHz
Bandwidth @ 1W (+0/-3dB)	20Hz – 20kHz	20Hz – 20kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz	10Hz – 130kHz
Signal-to-Noise Ratio (HF-A)	97dB	97dB	100dB	100dB	100dB	100dB	100dB	100dB
Power Supply	Switch mode	Switch mode	Torroidal transformer. Independent front and rear supplies.	Linear transformer. Independent front and rear supplies.	Linear transformer. Independent front and rear supplies.	Linear transformer. Independent front and rear supplies.	Linear transformer. Independent front and rear supplies.	Linear transformer. Independent front and rear supplies.
IEC Detachable Power Cord	Yes	Yes	Yes	Yes	Yes	No	No	No
Dolby Digital EX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dolby Pro Logic II	Pro Logic IIx	Pro Logic IIx	Pro Logic IIx	Pro Logic IIx	Pro Logic IIx	Pro Logic IIx	Pro Logic IIx	Yes
DTS 5.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTS-ES 6.1 Matrix & Discrete	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTS 96/24	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
DTS Neo:6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Logic 7	Yes, w/96kHz capability	Yes, w/96kHz capability	Yes, w/96kHz capability	Full process, w/96kHz capability	Full process, w/96kHz capability	Yes	Yes	Yes
VMAx	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Compressed-Audio Decoding	MP3	MP3	MP3	MP3	MP3	No	No	No
Dolby Virtual Speaker	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Headphone Modes	2-Channel, Dolby HP	2-Channel, Dolby HP	2-Channel, Dolby HP	2-Channel, Dolby HP	2-Channel, Dolby HP	2-Channel, Dolby HP	2-Channel, Dolby HP	VMAx
HDCD Processing	Yes	Yes	Yes	Yes	No	No	No	No
Multizone	Audio, with remote	Audio, with remote	Audio/video, with remote	Audio, with remote	Audio, with remote	Audio, with remote	No	No
Assignable Rear-Channel Amplifiers	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
EzSet	Yes, on remote	Yes, on remote	Yes, on remote	EzSet/EQ with microphone	EzSet/EQ with microphone	EzSet+ with microphone	Yes, on remote	No

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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Model (continued)	DPR 2005	DPR 1005	AVR 7300	AVR 635	AVR 435	AVR 335	AVR 235	AVR 135
AV Inputs	6	6	6	5	5	5	5	4
S-Video Inputs	6	6	6	5	5	5	5	4
Analog Audio Inputs	4	4	4	4	4	4	4	4
Digital Audio Inputs (Coax/Optical)	Rear panel 2/2 Front panel 1/1	Rear panel 2/2 Front panel 1/1	Rear panel 3/3 Front panel 1/1	Rear panel 3/3 Front panel 1/1	Rear panel 3/3 Front panel 1/1	Rear panel 3/3 Front panel 1/1	Rear panel 2/2 Front panel 1/1	Rear panel 2/2 Front panel 1/1
Digital Audio Outputs (Coax/Optical)	Rear panel 1/1 Front panel 1/0	Rear panel 1/1 Front panel 1/0	Rear panel 1/1 Front panel 1/1	Rear panel 1/1 Front panel 1/0	Rear panel 1/1 Front panel 1/1	Rear panel 1/1 Front panel 1/1	Rear panel 1/1 Front panel 1/1	Rear panel 1/1 Front panel 1/1
Digital Input Polling	All video inputs	All video inputs	All video inputs	All video inputs	All video inputs	All video inputs	All video inputs	All video inputs
Direct Audio Inputs	6/8-Channel with bass management	6/8-Channel with bass management	6/8-Channel with bass management	6/8-Channel	6/8-Channel	6/8-Channel	6/8-Channel	6/8-Channel
Preamp Outputs	7.1 Channels	7.1 Channels	7.1 Channels	7.1 Channels	7.1 Channels	7.1 Channels	7.1 Channels	Subwoofer
Input Titring	Yes	Yes	Yes	Yes	Yes	No	No	No
Bass Management	Quad crossover	Quad crossover	Quad crossover	Quad crossover	Quad crossover	Quad crossover	Quad crossover	Triple crossover
On-Screen Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSP Processor	Cirrus® CS 49400 with 32-bit post processor	Cirrus® CS 49400 with 32-bit post processor	Cirrus® CS 49400 with 32-bit post processor	Texas Instruments DA610 32-bit	Texas Instruments DA610 32-bit	Cirrus® CS 49400 with 32-bit post processor	Cirrus® CS 49400 with 32-bit post processor	Cirrus® CS 49326
Output DACs	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit
DCDi by Faroudja® Video Processing	No	No	Yes	No	No	No	No	No
Wide Bandwidth (50MHz) HDTV- Compatible Component Video Inputs	2, Assignable	2, Assignable	3 (100MHz), Assignable	3, Assignable	3, Assignable	2	2	2
AV Sync Delay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Video Cross Conversion: Composite and S-Video to Component	No	No	Yes	Yes	No	No	No	No
A-BUS/READY	Yes	Yes	Yes, x2	Yes	Yes	No	No	No
System Remote	8-Device learning & programmable, backlit with two-line LCD	8-Device learning & programmable, backlit with two-line LCD	8-Device learning & programmable, backlit with two-line LCD	8-Device learning & programmable, backlit with two-line LCD	8-Device learning & programmable, backlit with two-line LCD	8-Device programmable	8-Device programmable	6-Device programmable
IR In/Out Jacks	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Discrete Remote On/Off Codes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bi-directional RS-232 Control Port	Yes	Yes	Yes	Yes	Yes	No	No	No
HD Radio Upgrade Slot	Yes	Yes	Yes	Yes	Yes	No	No	No
Speaker Terminals	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts	Color-coded binding posts
Dimensions (H x W x D)	4-1/2" x 17-5/16" x 18-3/4"	4-1/2" x 17-5/16" x 18-3/4"	7-5/8" x 17-5/16" x 20-1/2"	6-1/2" x 17-5/16" x 17-1/8"	6-1/2" x 17-5/16" x 17-1/8"	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	23 lb	20 lb	55 lb	41 lb	39 lb	31 lb	28 lb	24.4 lb

Model	HK 3480	HK 3380
Description	Stereo Receiver	Stereo Receiver
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	FM stereo/AM with 30 presets
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 17-3/8" x 15"	6-5/8" x 17-3/8" x 15"
Weight	23 lb	20.9 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
Audio Output DACs	192kHz/24-bit	192kHz/24-bit
Video Output DACs	27MHz – 54MHz/10-bit	27MHz – 54MHz/10-bit
Progressive Scan Output	Yes, with pixel-by-pixel scaling	Yes, with pixel-by-pixel scaling
Video Test Screen	Yes	Yes
Video-Off Mode	Yes	Yes
Front-Panel Display Dimmer	Yes, for DVD-Video, DVD-Audio, VCD and SVCD	Yes, for DVD-Video, VCD and SVCD
Screen Saver	Yes	Yes
Compressed-Audio Bit Rates	MP3: 32kbps – 320kbps WMA: 16kbps – 192kbps	MP3: 32kbps – 320kbps WMA: 16kbps – 192kbps
JPEG Maximum Resolution	5 megapixels, 5Mb file size	5 megapixels, 5Mb file size
Disc Recognition Memory	DVD-Video: 100 discs MP3/WMA: 10 discs	DVD-Video: 100 discs MP3/WMA: 10 discs
Still-Image Rotation	Clockwise in 90-degree increments	Clockwise in 90-degree increments
Zoom	DVD-Audio/DVD-Video/ JPEG: 2x, 3x, 4x, 5x VCD/SVCD: 2x, 4x	DVD-Video/JPEG: 2x, 3x, 4x, 5x VCD/SVCD: 2x, 4x
Time Search	DVD (by title), CD/VCD/SVCD (by track)	DVD (by title), CD/VCD/SVCD (by track)
Slow Play	DVD: +/–1/2, 1/4, 1/8, 1/16 VCD/SVCD: +1/2, 1/4	DVD: +/–1/2, 1/4, 1/8, 1/16 VCD/SVCD: +1/2, 1/4
Fast Search	DVD-Audio: +/–4x, 8x, 16x, 48x DVD-Video: +/–2x, 16x, 64x, 200x CD/VCD/SVCD: +/–4x, 32x	DVD-Video: +/–2x, 16x, 64x, 200x CD/VCD/SVCD: +/–4x, 32x
Random Play	DVD-Video: Programmed Playlist only CD/VCD/SVCD/MP3/WMA/JPEG: Disc or Playlist	DVD-Video: Programmed Playlist only CD/VCD/SVCD/MP3/WMA/JPEG: Disc or Playlist
Repeat Play	1 track, 1 disc, A/B	1 track, 1 disc, A/B
Programmed Play	Up to all tracks, chapters or files on disc	Up to all tracks, chapters or files on disc
Digital Outputs	Coax, optical	Coax, optical
Remote	Backlit	Backlit
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
Description	5-Disc CD Changer
Plays CD-R	Yes
Plays CD-RW	Yes
HDCD®	Yes
Audio Output DACs	18-Bit Burr-Brown®
Programmed Play	20 Tracks
Repeat Play	1 Track, 1 CD, all CDs
Digital Output	Coax
Headphone Jack With Level Control	Yes
Remote	Yes
Separate Remote On/Off Buttons	Yes
IR In/Out Jacks	Yes
Dimensions (H x W x D)	5-1/8" x 17-5/16" x 15-1/4"
Weight	18 lb

Model	ABH 4
Description	4-Room A-BUS Expansion Hub
System Requirements	AB 1 or other compatible A-BUS modules. Harman Kardon A-BUS/ <i>READY</i> receiver or any source device with standard analog L/R outputs.
Dimensions (H x W x D)	ABH 4: 1-3/16" x 7-3/16" x 3-5/16" Power Supply: 1-7/16" x 5-15/16" x 2-13/16"
Weight	ABH 4: 0.9 lb Power Supply: 1 lb

Model	AB 1
Description	A-BUS/ <i>READY</i> In-Wall Module With Built-In Amplifier
System Requirements	Any Harman Kardon A-BUS/ <i>READY</i> receiver including DPR 2005, DPR 1005, AVR 7300, AVR 635 and AVR 435, or any receiver or source product connected to an ABH 4. Connections via Cat. 5/5e cable. Use with 6-ohm or 8-ohm speakers with sensitivity >88dB. Includes IR sensor for pass-through of remote commands.
Dimensions (H x W x D)	4-1/4" x 1-3/4" x 2-1/4"
Weight	0.25 lb

Model	HKTS 14	HKTS 8	HKS 4	HKS 3
Satellites	4 Identical 2-way satellites with dual 3" midranges and 3/4"-dome tweeter, video-shielded	5 Identical 2-way satellites with 3" midrange and 1/2"-dome tweeter, video-shielded	2 Identical 2-way satellites with dual 3" midranges and 3/4"-dome tweeter, video-shielded	2 Identical 2-way satellites with 3" midrange and 1/2"-dome tweeter, video-shielded
Center Channel Speaker	Voice-matched, dual-driver with two 3" midranges and 3/4"-dome tweeter	Voice-matched, dual-driver with two 3" midranges and 3/4"-dome tweeter	N/A	N/A
Subwoofer	200-Watt, bass-reflex powered subwoofer with 12" driver	100-Watt, bass-reflex powered subwoofer with 10" driver	N/A	N/A
Impedance	8 Ohms (sats & center)	8 Ohms (sats & center)	8 Ohms	8 Ohms
Sensitivity (SPL @ 1 Watt/Meter)	86dB (sats & center)	86dB (sats & center)	86dB	86dB
Frequency Response	System: 25Hz – 20kHz (–6dB)	System: 35Hz – 20kHz (–6dB)	105Hz – 20kHz (–6dB)	110Hz – 20kHz (–6dB)
Line-Level Inputs	Stereo RCA jacks and dedicated LFE	Stereo RCA jacks and dedicated LFE	N/A	N/A
Speaker-Level Inputs & Outputs	Binding posts	Binding posts	Spring lever (inputs only)	Spring lever (inputs only)
Recommended Amplifier Power	10W – 120W	10W – 80W	10W – 120W	10W – 80W
Subwoofer Level Control	Yes	Yes	N/A	N/A
Phase Switch	Yes	Yes	N/A	N/A
Music Sense Turn-On	Yes	Yes	N/A	N/A
Low-Pass Filter Switch	Yes	Yes	N/A	N/A
Cables Included	Yes	Yes	Yes	Yes
Wall-Mount Capability	Brackets included for 4 satellites	Brackets included for 5 satellites	Pair of brackets included	Pair of brackets included
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"	9-9/16" x 3-15/16" x 3-5/8"	6-9/16" x 3-15/16" x 3-5/8"
Weight	Sats: 2.2 lb Center: 2.2 lb Sub: 48 lb	Sats: 1.4 lb Center: 2.2 lb Sub: 33 lb	2.2 lb	1.4 lb

Model	HTFS 2†
Aluminum-Extrusion Column	Yes
Wire-Management System	Yes
Height, Assembled, Not Including Floor Spikes and Without Speaker	34-1/2"
Base	9" x 7" oval
Weight	16.7 lb

†Some assembly required

Model	CP 35	CP 25	CP 15
Channel Configuration	7.1-Channel system	7.1-Channel system	6.1-Channel system
Audio/Video Receiver	AVR 335*	AVR 235*	AVR 135*
DVD Player	DVD 31*	DVD 22*	DVD 22*
Loudspeaker Complement	HKTS 14* plus one pair HKS 4*	HKTS 7* (same component specs as HKTS 8* with one satellite fewer) plus one pair HKS 3*	HKTS 8*
Accessories Included	RCP 2 Universal Remote Control with EzSet, color Quick-Start Guide, color-coded cable labels, all necessary cables	RCP 2 Universal Remote Control with EzSet, color Quick-Start Guide, color-coded cable labels, all necessary cables	RCP 2 Universal Remote Control with EzSet, color Quick-Start Guide, color-coded cable labels, all necessary cables

*See individual product specifications.

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