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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 147. You'll find the answers to all your questions on the HARMAN KARDON AVR 147 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

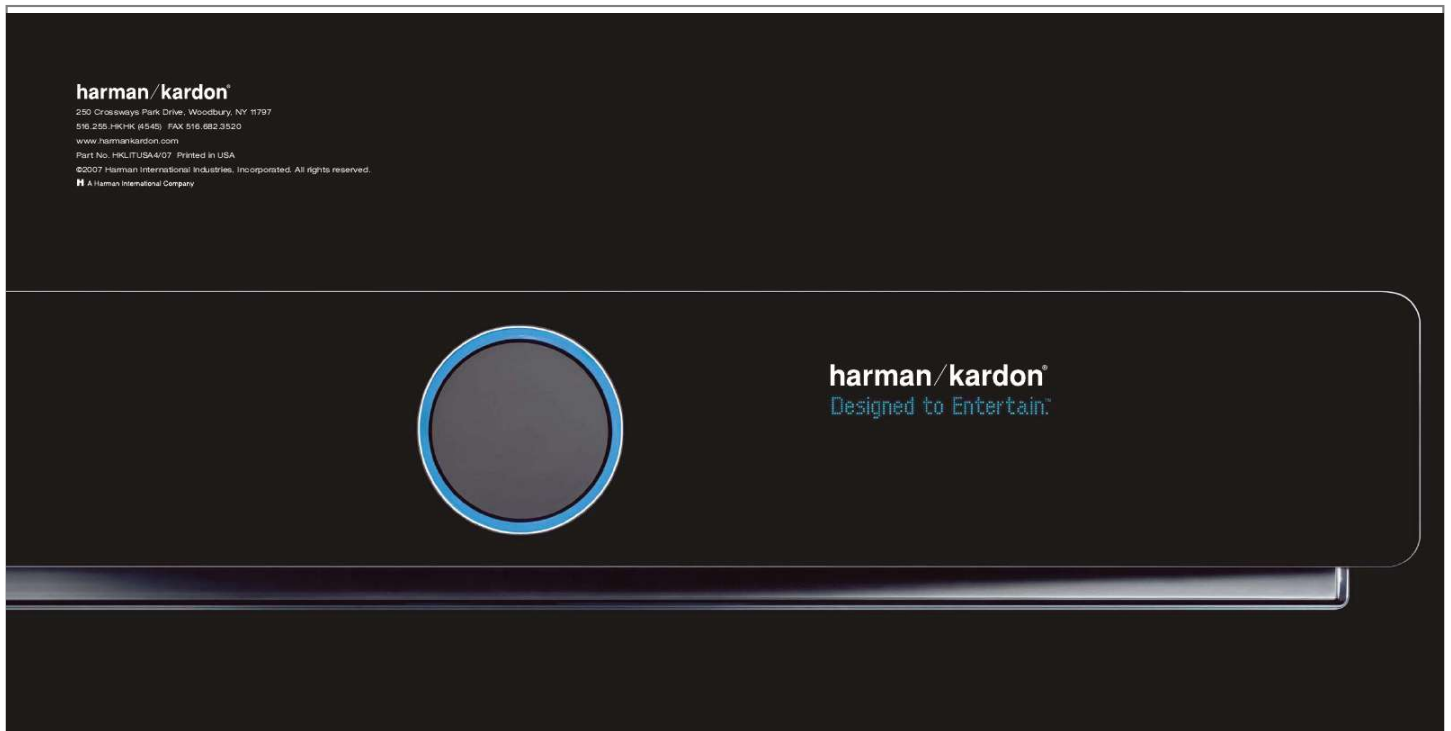
User manual HARMAN KARDON AVR 147

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Operating instructions HARMAN KARDON AVR 147

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Instruction manual HARMAN KARDON AVR 147



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Manual abstract:

2 3 HIGH-CURRENT CAPABILITY To understand the importance of high-current capability, we first need to know what an amplifier really does in relation to a loudspeaker. An amplifier provides current (measured as amperes) to a loudspeaker. That's why it's called an "amplifier," and not a "wattifier."

Fluctuations in current constitute the audio signal. The loudspeaker uses this current to make its cones or domes move the air in the listening space. This is how we experience sound, and the ability of a speaker to perform properly is directly related to the amount of current provided by an amplifier. That's why current is so important. Amplifier power, expressed in watts, is the product of voltage (volts) and current (amperes): power = voltage x current (watts = volts x amperes). When looking at amplifier power ratings in watts, it's impossible to determine how much current the product can generate. Most manufacturers choose not to publish separate current measurements; however, the high-current capability of Harman Kardon amplifiers and receivers is readily available.

The amplifiers in our products are praised because they're capable of delivering enough current to drive even the most demanding loudspeakers, and of handling the most dynamic musical passages or movie soundtracks. To clarify the importance of current, think of a 12-volt car battery. Now think of eight 1.5-volt AAA batteries. Both options deliver 12 volts, but which would you choose to start your car? In other words, which would have more current? Or think of two cars with the same horsepower (watts), but one with more torque.

The car with high torque (current) will not lose speed when driving uphill, while the car with low torque will lose speed and need to use a lower gear to maintain the same speed. **ULTRA WIDE BANDWIDTH** While most amplifiers and receivers struggle to cleanly reproduce the audible frequency spectrum from 20Hz to 20kHz, Harman Kardon components typically extend to well beyond 100kHz. Although this exceeds the boundaries of human hearing, this broadband response eliminates phase distortion for improved transient accuracy and phase linearity. The audible result is better-defined imaging and sharper focus.

LOGIC 7 Developed by Lexicon a specialist in high-end audio and a Harman International company Logic 7 processing was the first 7. 1-channel surround mode to create realistic 7-channel surround from both stereo and matrix-encoded surround recordings. @@@@ There are two Logic 7 modes, one for Cinema and one for Music. @@EzSet/EQTM II AND EzSet/EQTM Whether 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. EzSet/EQ II and EzSet/EQ technologies use a high-precision microphone and digital processing to measure a system's performance for quick and easy calibration of speaker settings, output levels and delay times with accuracy that rivals expensive test gear. EzSet/EQ II and EzSet/EQ processes add proprietary software to equalize the receiver's output for an optimal match to the sonic signature of your speakers' and listening room's individual characteristics.

HONEST NUMBERS Harman Kardon measures power with all channels driven, with the frequency range, impedance and distortion clearly specified, according to FTC (U.S. Federal Trade Commission) guidelines. This means our figures include no exaggeration or inflation. By delivering full-rated power to ALL channels simultaneously, Harman Kardon ensures that music and movies are reproduced with full impact, the way they were meant to be heard.

This is the user's guarantee for stability, reliability and pure, clean sound. **TECHNOLOGY FIRSTS** Harman Kardon holds true to the company's mission, as expressed by our founder, Dr. Sidney Harman, which is a commitment to "technology that serves the genuine needs of consumers serves, not intimidates."

We've reached that goal with constant innovation. For instance, our industry-leading bass-management systems make it easy to direct sound to the proper speaker, no matter what the combination of sources or speaker types, and we were the first to make it possible to link computer audio to home entertainment systems. Additionally, The Bridge docking station simplifies the use of your iPod player with your home audio system. **SURROUND YOURSELF WITH THE VERY FINEST** 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 and viewing experiences.

6 7 Since 1953, Harman Kardon has focused on improving the home entertainment experience by combining extraordinary industrial design, innovative technologies, meticulous engineering and the finest audio and video quality. Our extensive experience and trail-blazing research give Harman Kardon a unique perspective on how to bring together the best in analog and digital technologies, trendsetting design, and flexible user interfaces to create high-performance, market-leading home entertainment systems. **Philosophy** In fact, most of the technologies currently associated with the very best amplifiers were originally introduced by Harman Kardon. Today, our products retain key design characteristics such as high-current capability and ultrawide bandwidth, but also incorporate the latest available technologies. @@@@ What could be easier? @@@@ Select Harman Kardon AVR

models go one step further by converting analog video to high-resolution digital video for HDMI connectivity.

Getting the best sound takes more than just power it requires tailoring the system parameters to the unique characteristics of the listening room. With the press of a few buttons, our patented EzSet/EQ and EzSet systems do that for you automatically, with accuracy previously possible only with expensive professional gear. Harman Kardon technology unleashes music power so that it can be heard almost anywhere in the house. Thanks to configurable amplifiers, A-BUS Ready single-cable connectivity and standard second-zone remotes, it's easier than ever to have the sound you want, where you want it.

Sometimes technology changes after you purchase a component.

That's why all Harman Kardon AVR models (except AVR 146), DVD players and HS systems can be easily updated when needed, helping to keep your system as current as possible for years to come. **HDMITM DESIGNED TM** to Entertain. The best technologies are the ones that add to the power and performance of a system while making it easier to use. EzSet/EQTM A-BUS ® UPDATES 10 11 AVR 745 7 x 85W 7.2-Channel A/V Receiver With HDMITM Switching and Audio/Video Processing Digital audio meets digital video.



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The AVR 745's DCDi® by Faroudja video processing upscales all incoming video to 720p or 1080i. Two HDMI 1.1 inputs are available to decode audio for true single-wire connectivity. Digital audio extras include XM Ready®2 capability, iPod playback through The Bridge docking station, and USB playback from compatible computers. Our EzSet/EQ II system, 7.

2-channel output, TC 30 remote and more make this the most flexible AVR we've ever produced. 7 x 75W 7.1-Channel A/V Receiver With HDMI Switching and Audio Processing Versatility at its best! The AVR 645 not only switches two HDMI 1.1 sources, it is able to decode Dolby® Digital, DTS® and PCM audio streams from the HDMI inputs. Add USB audio, iPod connectivity and XM Ready capability to our EzSet/EQ system and high-current amplifier, and the AVR 645 performs with ease. Equally impressive on the video side is transcoding so that all analog video inputs may be viewed via component outputs, and A/V Sync Delay, which reconnects the timing of sound and images. There is no better combination of sound and image anywhere. 7 x 65W 7.1-Channel A/V Receiver With HDMI Switching Make the switch! With two-input HDMI switching, XM Ready and USB connections receiver obsolete in a predominantly digital, multichannel world? Absolutely not! Harman Kardon's stereo receivers are the audio equivalent of an elegant analog timepiece in a world filled with digital chronometers, and they remain the standard by which other stereo receivers are judged. 2 x 120W Stereo Receiver Harman Kardon knows more about stereo receivers than anyone else.

After all, we invented the product category almost fifty years ago!

@@@All 7.1-channel Harman Kardon receivers feature assignable rear-channel amps, a secondzone control system and (except for the AVR 247) a second-zone remote control, making it easy to power another room without an additional amplifier. AB 2 Amplified In-Wall Module With Onboard Controls for A-BUS Applications The perfect mate to the ABH 4000 or to any A-BUS Ready Harman Kardon AVR, the AB 2 lets you select and control your listening source, raise or lower the volume for the AB 2's internal poweof seamless 7.1-channel surround, without taking up space. Floor Stands These slim-profile, aluminum-extrusion columns are custom-designed to match the HKTS 15, HKTS 18, HKS 6 and HKS 9 satellite speakers, while accenting any décor.

A self-contained, internal wire-management system adds to the system approach by keeping speaker wires out of sight. HOME THEATER Speaker Systems Big movie sound from a remarkably compact, fully matched system. That's precisely the goal we set for the HKTS 15, and it more than meets the challenge.

Conventional wisdom says that you need large speakers for "large sound," but the HKTS 15 destroys that notion as easily as it reproduces the sound of cinematic space rangers destroying alien invaders. HKS 6 HTFS 2 34 35 CP 65 5.

1-Channel Home Theater System A perfectly matched and powerful home theater system, from start to finish. @@@@High-Fidelity, Noise-Isolating Earphones Batteries not included! @@@@High-Fidelity, Noise-Isolating Earphones Heavyweight sound from lightweight earphones defines the EP 710 from Harman Kardon. The unique design provides natural noise isolation to 30dB, along with highly accurate music reproduction and enhanced bass, even at lower listening levels. Noise-Isolating EARPHONES Now you can take Harman Kardon sound with you almost anywhere, thanks to our acoustically advanced 700 Series earphones. All use noise-isolation technology by Etymotic Research to block out ambient noise without the bulkiness of battery-powered noise-canceling headphones. Whether using a Harman Kardon AVR's Dolby Headphone mode or your favorite portable audio/video player, enjoy spacious sound from these compact earphones, no matter where you are. Available in black or white. EP 720 EP 710 38 39

You're in elite company when you choose a Harman Kardon entertainment product. @@@@So surround yourself with the Harman Kardon experience in your home, on the road and at your desk and enjoy the very finest. Surround Yourself 40 41 SPECIFICATIONS Model Description Stereo Power Multichannel Power Amplifier Type THD @ Impedance Bandwidth Bandwidth @ 1W (+0dB/3dB) Signal-to-Noise Ratio (IHF-A) Power Supply Dolby® Digital Dolby® Pro Logic® II Dolby Virtual Speaker DTS® 5.

1 DTS-ES 6.1 Discrete & Matrix DTS 96/24® DTS Neo:6® Logic 7® (up to 96kHz) Headphone Modes -Ready for iPod® Player Connectivity1 XM Ready®2 Multizone Capability Assignable Rear-Channel Amplifiers A-BUS® Ready EzSet® Capability A/V Inputs S-Video Inputs Analog Audio Inputs Digital Audio Inputs (Coax/Optical/USB3) Digital Audio Outputs (Coax/Optical) Digital Input Polling Direct Audio Inputs HDMITM Inputs/Output HDMI Type Simplay HDTM-Verified Preamp Outputs Component Video Inputs (Assignable) TM® AVR 745 7.2-Channel AVR 100 x 2 85 x 7* High current ±60 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital EX Pro Logic® IIx Yes Yes Yes Yes Yes Yes 2-Channel, Dolby® HP Audio Yes Audio/video, with remote Yes Yes EzSet/EQTM II 5 5 4 Rear panel 3/3/1 Front panel 1/1/0 Rear panel 1/1 Front panel 1/0 All sources4 7.1 With bass management 2/1 1.1 With audio/video processing No 7.2 Channels 3 @ 100MHz AVR 645 7.1-Channel AVR 90 x 2 75 x 7* High current ±50 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital EX Pro Logic® IIx Yes Yes Yes Yes Yes Yes 2-Channel, Dolby® HP Audio Yes Audio, with remote Yes Yes EzSet/EQTM 5 5 4 Rear panel 3/3/1 Front panel 1/1/0 Rear panel 1/1 Front panel 1/0 All sources4 7.1 2/1 1.1 With audio processing No 7.1 Channels 2 @ 60MHz AVR 445 7.1-Channel AVR 80 x 2 65 x 7* High current ±40 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital EX Pro Logic® IIx Yes Yes Yes Yes Yes Yes 2-Channel, Dolby® HP Audio Yes Audio, with remote Yes Yes EzSet/EQTM 5 5 4 Rear panel 3/3/1 Front panel 1/1/0 Rear panel 1/1 All sources4 7.1 2/1 Switching No 7.1 Channels 2 @ 60MHz AVR 347 7.1-Channel AVR 70 x 2 55 x 7* High current ±35 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital EX Pro Logic® IIx Yes Yes Yes Yes Yes Yes 2-Channel, Dolby® HP Audio/Video Yes Audio, with remote Yes Yes EzSet/EQTM 5 5 4 Rear panel 3/3/0 Front panel 1/1/0 Rear panel 1/1 All sources4 7.1 2/1 1.1 With audio/video processing Yes 7.1 Channels 3 @ 100MHz AVR 247 7.1-Channel AVR 65 x 2 50 x 7* High current ±35 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital EX Pro Logic® IIx Yes Yes Yes Yes Yes Yes 2-Channel, Dolby® HP Audio/Video Yes Audio Auto assignment for multizone No EzSet/EQTM 5 5 4 Rear panel 2/2/0 Front panel 1/1/0 Rear panel 1/1 All sources4 7.



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I 2/1 1.1 With audio/video processing Yes 7.1 Channels 3 @ 100MHz AVR 147 5.1-Channel AVR 50 x 2 40 x 5* High current ±25 amps 0.07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital Pro Logic® II Yes Yes No Yes Up to 5 channels Yes 2-Channel, Dolby® HP Audio/Video Yes No No No EzSet/EQTM 4 4 4 Rear panel 2/2/0 Front panel 1/1/0 Rear panel 1/1 All sources 4 5.1 2/1 Switching Yes Subwoofer 2 @ 100MHz AVR 146 5.1-Channel AVR 40 x 2 30 x 5* High current ±25 amps 0.

07% @ 8 ohms 20Hz 20kHz 10Hz 130kHz 100dB Independent front & rear Dolby® Digital Pro Logic® II Yes Yes No Yes Up to 5 channels Yes 2-Channel, Dolby® HP Audio/Video No No No No No 4 4 4 Rear panel 2/2/0 Front panel 1/1/0 Rear panel 1/0 All sources 4 5.1 2/1 Switching Yes Subwoofer 2 @ 100MHz Model (continued) Bass Management On-Screen Display Input Tiling DSP Processor Output DACs Video Processing/ Conversion A/V Sync Delay IEC Detachable Power Cord System Remote AVR 745 Quad crossover Yes, including component All inputs except tuner TI DA 610 192kHz/24-bit DCDi® by Faroudja scaling to 720p or 1080i 200 mS Yes TC 30 activity-based, color LCD, Internet programmability Yes Yes Yes 2 USB and RS-232 AVR 645 Quad crossover Yes, including component All inputs except tuner TI DA 610 192kHz/24-bit AVR 445 Quad crossover Yes, including component All inputs except tuner TI DA 610 192kHz/24-bit AVR 347 Quad crossover All inputs Cirrus® CS 49510 192kHz/24-bit DCDi® by Faroudja scaling to 720p 80 mS Yes 11-Device learning & programmable; backlit Yes Yes Yes No RS-232 Color-coded binding posts 6-1/2" x 17-5/16" x 15" 30.6 lb Model AVR 247 Quad crossover All inputs Cirrus® CS 49510 192kHz/24-bit DCDi® by Faroudja scaling to 720p 80 mS No 11-Device programmable AVR 147 Triple crossover Yes All inputs except tuner Cirrus® CS 49510 192kHz/24-bit No 80 mS No 10-Device programmable AVR 146 Triple crossover Yes All inputs except tuner Cirrus® CS 49510 192kHz/24-bit No 80 mS No 10-Device programmable Upgraded, including HDMITM Upgraded, including HDMITM Composite/S to component Composite/S to component transcoding transcoding 80 mS Yes 12-Device learning & programmable with backlit, two-line LCD Yes Yes Yes 1 USB and RS-232 80 mS Yes 12-Device learning & programmable with backlit, two-line LCD Yes Yes Yes 1 USB and RS-232 Color-coded binding posts IR-In/Out Jacks IR Carrier Output Discrete Remote-On/Off Codes Low-Voltage Trigger Jacks External Data Port Speaker Terminals Dimensions (H x W x D) Weight Model Description LCD Screen Maximum Devices Maximum Activities Memory Computer Requirements Includes Yes No RS-232 Color-coded binding posts 6-1/2" x 17-5/16" x 15" 30 lb No No Yes No RS-232 Color-coded binding posts 6-1/2" x 17-5/16" x 15" 21.3 lb HK 3485 Stereo receiver 120 x 2 <0.07% 8 Ohms 20Hz 20kHz ±45 Yes 7 4 (1 on front panel) 1 Yes Yes Yes Yes Yes 2 Switched Yes Yes 6-5/8" x 17-5/16" x 15" 23 lb No No Yes No No Color-coded binding posts 6-1/2" x 17-5/16" x 15" 21.1 lb HK 3385 Stereo receiver 80 x 2 <0.07% 8 Ohms 20Hz 20kHz ±42 10Hz 110kHz Yes 7 4 (1 on front panel) 1 Yes Yes Yes Yes Yes 2 Switched Yes Yes 6-5/8" x 17-5/16" x 15" 20.9 lb 43 All-metal, color-coded binding posts Color-coded binding posts 6-1/2" x 17-5/16" x 17-1/16" 6-1/2" x 17-5/16" x 17-1/16" 6-1/2" x 17-5/16" x 17-1/16" 44 lb 41 lb 39 lb TC 30 (included with AVR 745) Activity-based remote 64K color LCD 15 255 2MB PC with Microsoft® Windows® 98SE/ME/2000/XP or Mac OS® X, CD-ROM drive, USB port (dial-up or broadband Internet access required for programming) TC 30, installation disc, USB cable, lithium-ion rechargeable battery, charging cradle, AC adapter, power supply 8-7/8" x 2-1/8" x 1" 8-13/16" x 2-3/8" x 11/16" 6 Ounces 5 Ounces The Bridge Docking station for iPod® player 1 iPod player with docking connector (not compatible with iPod shuffle™ player) Harman Kardon® AVR (AVR 40, 45 or 47 Series, or AVR 146) with DMP/The Bridge docking connector AVR 146 or AVR 47 Series 1-3/16" x 4-1/2" x 4-1/2" 5.9 Ounces Description Power THD Impedance Bandwidth HCC (amps) Bandwidth @ 1W (+0, 3dB) 10Hz 110kHz Discrete Amplifier Output Devices Audio Inputs Video Inputs Video Outputs Phono Input Tape Monitor Loop Tuner A/B Speaker Switching Subwoofer Output Preamp Outputs/ Main-Amp Inputs Accessory Outlets System Remote Separate Remote On/Off Buttons Dimensions (H x W x D) Weight Remote Dimensions (H x W x D) Charging-Cradle Dimensions (H x W x D) Remote Weight Charging-Cradle Weight Model Description iPod® Requirements Receiver Requirements Video Compatibility Dimensions (H x W x D) Weight AM/FM stereo with 30 presets AM/FM stereo with 30 presets * All channels operating at full-rated power. 1: Compatible with iPod models with docking connector; includes all Click Wheel models (iPod player not included).

2: Optional XM antenna module and subscription to XM service required. Hardware and service sold separately. XM service is not available in Alaska or Hawaii. 3: USB port is compatible only with PCs running either Microsoft® Windows® 2000 with Service Pack 4 or higher or Windows XP with Service Pack 1 or higher. 4: Except tuner, The Bridge/DMP, XM Radio and 6-/8-channel sources.

42 Model Description Video Formats Audio Formats HDMITM Output Simplay HDTM-Verified Still-Image Formats Audio DACs Video DACs Video Outputs Video Test Screen Video-Off Mode Screen Saver Compressed-Audio Bit Rates JPEG Resolution Disc-Recognition Memory Still-Image Rotation Slow Play Forward Slow Play Reverse Fast Play Random Play Repeat Play Programmed Play Digital-Audio Outputs Remote IR-In/Out Jacks Dimensions (H x W x D) Weight DVD 48 DVD, DVD-R/RW, DVD+R/RW, VCD DVD-Audio, SACD, CD, CD-R/RW, MP3, WMA** Yes, HDMI 1.1 Yes JPEG, Kodak® Picture CD 192kHz/24-bit 27MHz 54MHz/10-bit; 216MHz/12-bit in HD mode 480i, 480p, 720p, 1080i, 1080p No Yes Yes MP3: 32 kbps 320 kbps; WMA: 64 kbps 320 kbps 5 Megapixels, 5MB file size No 90° increments 1/2x, 1/4x, 1/8x, 1/16x 1/2x, 1/4x 1-1/2x, 4x, 6x, 8x, 16x, 32x CDs only Disc, track, A/B CDs only Coax, optical, HDMI 1.1 Backlit Yes 2" x 17-5/16" x 11-1/4" 6 lb DVD 38 DVD, DVD-R/RW, DVD+R/RW, VCD DVD-Audio, CD, CD-R/RW, MP3, WMA** Yes, HDMI 1.0 Yes JPEG, Kodak® Picture CD 192kHz/24-bit 27MHz 54MHz/10-bit 480i, 480p, 720p, 1080i Yes Yes Yes MP3: 32 kbps 320 kbps; WMA: 64 kbps 320 kbps 5 Megapixels, 5MB file size DVD-Video/MP3/WMA: 5 discs 90° increments 1/2x, 1/4x, 1/8x, 1/16x 1/2x, 1/4x 2x, 4x, 8x, 20x, 100x CDs only Disc, track, A/B CDs only Coax, optical, HDMI 1.



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0 Backlit Yes 2" x 17-5/16" x 11-1/4" 6 lb Model Description Multichannel Power Speaker System Surround Formats DVD Player External Audio Connection Digital-Audio Inputs (Coax/Optical) USB Input (Side/Rear) Video Outputs Video Formats Audio Formats Compressed-Audio Bit Rates Still-Image Formats JPEG Resolution Still-Image Rotation Upscaling Tuner Test Screen Fast Play Slow Play Random and Programmed Play Repeat Play Remote Dimensions (H x W x D) Weight (Excluding Speaker System) HS 300 5.

1-Channel integrated home theater system 35W x 5, THD <0.07%, 20Hz 20kHz into 8 ohms * HKTS 11 DTS,® Dolby® Digital, Dolby Pro Logic® II Progressive scan Tape-in/out, TV-in 1/1 1/1 HDMI,™ composite, S, component DVD, DVD-R/RW, DVD+R/RW, VCD, SVCD DVD-Audio, CD, CD-R/RW, MP3, WMA** MP3: 32kbps 320kbps; WMA: 16kbps 192kbps JPEG, Kodak® Picture CD 5 Megapixels, 5MB file size 90° Increments 720p and 1080i AM/FM, 30 presets Yes 2x, 4x, 16x, 100x 1/2x, 1/4x, 1/8x, 1/16x Yes, CD only 1 Track, 1 CD, A/B System remote 2-11/16" x 17-5/16" x 15" 10.6 lb Model Satellites Center Channel Speaker Subwoofer Nominal Impedance Sensitivity (SPL @ 1 Watt/Meter) Frequency Response Line-Level Inputs Speaker-Level Inputs & Outputs Recommended Amplifier Power Subwoofer Level Control Phase Switch Audio Sense Turn-On Low-Pass Filter Switch Cables Included Wall-Mount Capability Dimensions (H x W x D) HKTS 18 4 Identical 2-way satellites with dual 3" midranges 3/4"-dome tweeter, video-shielded Voice-matched with dual 3" midranges and 3/4"-dome tweeter, video-shielded 200-Watt, bass-reflex powered subwoofer with 10" driver; external trigger input 8 Ohms (sats & center) 86dB (sats & center) System: 25Hz 20kHz (6dB) Stereo RCA jacks and dedicated LFE Binding posts (sub); spring lever inputs (sats & center) 10W 120W Yes Yes Yes Yes Yes Brackets included for center and satellites Sats: 9-9/16" 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" Sats: 2.8 lb; Center: 2.7 lb; Sub: 35 lb Black lacquer HTFS 2 Yes Yes 34-1/2" 9" x 7" Oval 16.7 lb HKTS 15 4 Identical 2-way satellites with 3" midrange and 1/2"-dome tweeter, video-shielded Voice-matched with dual 3" midranges and 3/4"-dome tweeter, video-shielded 100-Watt, bass-reflex powered subwoofer with 10" driver; external trigger input 8 Ohms (sats & center) 86dB (sats & center) System: 35Hz 20kHz (6dB) Stereo RCA jacks and dedicated LFE Binding posts (sub); spring lever inputs (sats & center) 10W 80W Yes Yes Yes Yes Yes Brackets included for center and satellites 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" Sats: 1.7 lb; Center: 2.7 lb; Sub: 35 lb Black lacquer Model Description Plug Type HKS 9 2 Identical 2-way satellites with dual 3" midranges and 3/4"-dome tweeter, video-shielded N/A HKS 6 2 Identical 2-way satellites with 3" midrange and 1/2"-dome tweeter, video-shielded N/A Progressive-scan DVD audio/video and SACDTM player with HDMITM Progressive-scan DVD audio/video player with HDMITM N/A 8 Ohms 86dB 105Hz 20kHz (6dB) N/A Spring lever (inputs only) 10W 120W N/A N/A N/A N/A Yes Pair of brackets included 9-9/16" x 3-15/16" x 3-5/8" N/A 8 Ohms 86dB 110Hz 20kHz (6dB) N/A Spring lever (inputs only) 10W 80W N/A N/A N/A N/A Yes Pair of brackets included 6-9/16" x 3-15/16" x 3-5/8" Weight Finish Model Aluminum-Extrusion Column Wire-Management System 2.8 lb Black lacquer EP 730 Noise-isolating earphones 1/8" Stereo, compatible with iPod and most portable players High-Fidelity and Bass Boost modes with in-line switch Yes Yes Yes Balanced armature 20Hz 15kHz (±6dB) 95dB SPL (max VC) in High-Fidelity mode; 105dB SPL (fixed) in Bass Boost mode 90% (High-Fidelity mode); 81% (Bass Boost mode) 48 Ohms (High-Fidelity mode); 16 ohms (Bass Boost mode) 120dB SPL EP 720 Noise-isolating earphones 1/8" Stereo, compatible with iPod and most portable players Enhanced bass reproduction, even at low listening levels No Yes Yes Balanced armature 20Hz 15kHz (±7dB) 105dB SPL 1.7 lb Black lacquer EP 710 Noise-isolating earphones 1/8" Stereo, compatible with iPod and most portable players Enhanced bass reproduction, even at low listening levels No Yes Yes Moving coil 20Hz 16kHz (±8dB) 96dB SPL ** Windows Media® Audio (WMA) is a proprietary file format developed by Microsoft.

A/B Repeat Play is available for DVDs, CDs and VCDs only. Height, Assembled, Not Including Floor Spikes and Without Speaker Base Weight ** Windows Media® Audio (WMA) is a proprietary file format developed by Microsoft. A/B Repeat Play is available for DVDs, CDs and VCDs only (SACD discs on DVD 48 only). Model Description Plays CD-R Plays CD-RW HDCD® Audio Output DACs Programmed Play Repeat Play Digital Output Headphone Jack With Level Control Remote Separate Remote On/Off Buttons IR-In/Out Jacks Dimensions (H x W x D) Weight FL 8385 5-Disc CD changer Yes Yes Yes 18-Bit Burr-Brown 20 Tracks 1 Track, 1 CD, all CDs Coax Yes Yes Yes 5-1/8" x 17-5/16" x 15-1/4" 18 lb Model Description System Requirements Includes Unit Dimensions (H x W x D) Unit Weight 44 HE 1000 External infrared remote sensor Harman Kardon® or compatible products with "IR Remote-In" jack Power supply, connecting block, connecting cable 1" x 3-5/16" x 2-5/16" 5.7 Ounces Dimensions (H x W x D) Weight ABH: 4.2" x 9.5" x 1.5" Power Supply: 2.8: x 6.0" x 1.

5" ABH: 1.0 lb; Power Supply: 1.0 lb ABH: 3.4" x 7.2" x 1.

2" Power Supply: 1.5" x 5.9" x 2.8" ABH: 0.9 lb; Power Supply: 1.

0 lb TM Bass Reproduction Some assembly required. Available in silver or black-lacquer finish. @@@@5/5e or better Speakers: Up to 14 AWG 4.3 x 1.8" x 2.3" .25 lb Model Channel Configuration Audio/Video Receiver DVD Player Loudspeaker Complement Accessories Included System Connection RCP 7 universal remote control, RCP 6 universal remote control, RCP 5 universal remote control color-coded cable labels, color-coded cable labels, with EzSet,® EzSet/EQTM microphone, EzSet/EQTM microphone, color-coded cable labels, all necessary cables all necessary cables all necessary cables 81% 16 Ohms (nominal) 120dB SPL 35dB with 3-flange ear tips 6 ft 2 oz 82% 16 Ohms (nominal) 120dB SPL 30dB with 3-flange ear tips 6 ft 2 oz NOTE: Depth measurements include knobs, buttons and terminal connections; height measurements include feet and chassis. All features and specifications are subject to change without notice. Harman Kardon, EzSet, (patent no).



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