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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 260. You'll find the answers to all your questions on the HARMAN KARDON AVR 260 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

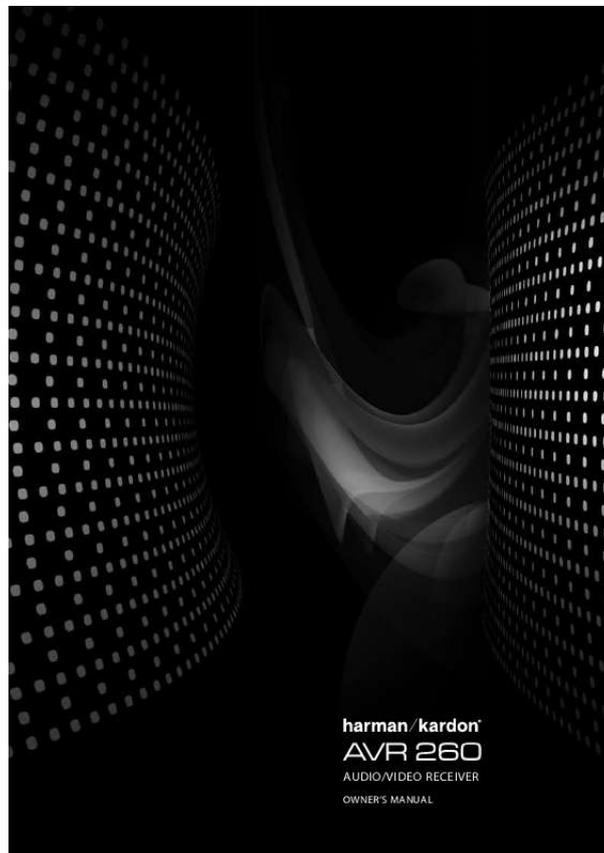
**User manual HARMAN KARDON AVR 260**

**User guide HARMAN KARDON AVR 260**

**Operating instructions HARMAN KARDON AVR 260**

**Instructions for use HARMAN KARDON AVR 260**

**Instruction manual HARMAN KARDON AVR 260**



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**Manual abstract:**

2. Keep these instructions. 3. Heed all warnings. 4. Follow all instructions. 5. Do not use this apparatus near water. 6. Clean only with a dry cloth. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8. @ @9.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. @ @13. @ @14. Refer all servicing to qualified service personnel. @ @15.

@ @16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. 17. The mains plug of the power supply cord shall remain readily operable. 18. Do not expose batteries to excessive heat such as sunshine, fire or the like. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. **WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. ENGLISH DECLARATION OF CONFORMITY** We, Harman

Consumer Group, Inc.

2, Route de Tours 72500 Château-du-Loir, FRANCE declare in own responsibility, that the product described in this owner's manual is in compliance with technical standards: EN55013(2001) & + A2(2006) EN55020(2002) & + A2(2005) EN60065:2002 EN61000-3-2(2000)+A2(2005) EN61000-3-3(1995)+A1(2001)+A2(2005) EN61000-4-2(1995) & + A1(1998) & + A2(2001) EN61000-4-3(2002) & + A1(2002) EN61000-4-4(2004) Jurjen Amsterdam Harman Consumer Group, Inc. 07/09 3 INTRODUCTION thank you for choosing Harman Kardon! With the purchase of a Harman Kardon AVR 260 you are about to begin many years of listening enjoyment. Designed to provide all the excitement and detail of movie soundtracks and every nuance of musical selections, the AVR 260 is truly a multichannel receiver for the new millennium. In addition to the traditional 5.1 digital decoding modes such as Dolby Digital and DTS, they offer the latest advancements in surround technology such as Dolby® True HD and DTS®-HD Master Audio™ and the latest 7.1 channel versions of Harman's own Logic 7 technology. The AVR 260 has been engineered so that it is easy to take advantage of all the power of its digital technology. Full-color, high-definition, multilanguage on-screen menus, fully color coded connection jacks and terminals make installation fast and simple. However, to obtain the maximum enjoyment from your new receiver, we urge you to read this manual. A few minutes spent learning the functions of the various controls will enable you to take advantage of all the power the AVR is able to deliver.

If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer. They are your best local sources of information. Description and features The AVR serves as the hub of your home entertainment system, providing a wide range of listening possibilities for almost any audio or video program source, whether it is the broadcast of a movie or sporting event in HDTV or a vintage mono or stereo recording. When playing digital audio sources through the HDMI 1.3a compliant connections, the AVR decodes Dolby True HD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD data streams. Twochannel stereo and matrix surround sources benefit from all current Dolby Pro Logic IIx modes and DTS Neo:6. The latest version of our proprietary Logic 7® process is on-board to create a wider, more enveloping sound field and more defined surround channel positioning, regardless of the type of source material. Dolby Virtual Speaker is available to create enveloping sound fields from front left and right speakers, and the latest Dolby Headphone circuitry creates an amazing sense of openness with headphones. The AVR takes the "video" part of its name seriously. Along with three HDMI inputs and two 100MHz analog component video inputs, the AVR's video processing allows you to scale the output signal to 1080p loop-through to match the requirements of your specific video display.

Thanks to award winning Faroudja® DCDi Cinema™ technology, your video sources never looked better. Tying audio and video together, the AVR provides A/V sync delay so that the lip sync errors commonly seen when digital video processing is used in a source, program or video display are eliminated. An important addition to the AVR's impressive list of features is EzSet/ EQ™, which automates the configuration process to make it quicker, easier and more precise. Using the special microphone supplied with the unit, EzSet/EQ takes the guesswork out of entering speaker "size" and crossover information, delay times for all channels and output levels. In addition to the configuration settings, EzSet/EQ also includes room equalization so that the signals sent to each speaker are tailored to provide accurate sonic quality with your specific combination of speaker type, room size and other factors that influence room acoustics. With EzSet/EQ, your system is customconfigured in a few minutes with accuracy that previously required expensive and hard-to-use test equipment.

Please register your AVR 260 at [www.harmankardon.com](http://www.harmankardon.com). NOTE: You'll need the product's serial number.

At the same time, you can choose to be notified about new products and/or special promotions. 4 INTRODUCTION In tandem with EzSet/EQ, the AVR includes a full set of manual configuration settings for those who wish to custom-trim their system even further. A Quadruple Crossover bass management system makes it possible to enter different crossover settings for each speaker group. A Stereo-Direct mode bypasses the digital processor to preserve all of the subtleties of older analog, two-channel materials, while bass management, available in the surround and Stereo-Digital modes, improves your ability to tailor the sound to suit your room acoustics or taste. For the ultimate in flexibility, the AVR's feature connections for four video devices, all with both composite and S-Video inputs.



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Two additional audio inputs are available, and a total of six digital inputs and two outputs make the AVR capable of handling all the latest digital audio sources. For compatibility with the latest HDTV video sources and progressive scan DVD players, the AVR also features wide-bandwidth, low-crosstalk component video switching. Coax and optical digital outputs are available for direct connection to digital recorders. A video recording output and a color-coded eight-channel input make the AVR virtually future-proof, with everything needed to accommodate tomorrow's new formats right on board. The AVR's powerful amplifier uses traditional Harman Kardon high-current design technologies to meet the wide dynamic range of any program selection. Harman Kardon invented the high-fidelity receiver more than fifty years ago. With state-of-the-art circuitry and time-honored circuit designs, the AVR 260 is the perfect combination of the latest in digital audio technology, a quiet yet powerful analog amplifier in an elegant, easy-to-use package. Dolby True HD, Dolby Digital Plus, Dolby Digital EX and Dolby Pro Logic\* II and IIx Decoding, and the full suite of DTS® modes, including DTS-HD Master Audio, DTS-HD and DTS-ES® 6.1 Discrete & Matrix and Neo:6® Seven channels of high-current amplification with two channels assignable to either surround back or multiroom applications Harman Kardon's exclusive Logic 7® processing, along with a choice of Dolby Virtual Speaker processing for use when only two speakers are available Dolby Headphone to create spacious, open sound fields when using headphones Harman Kardon's advanced EzSet/EQTM automatically configures speaker settings and sets room equalization for quick, easy and accurate system setup HDMI with audio/video processing, upscaling to 720p/1080p and the remote at this area and do not block or cover it unless an external remote sensor is installed. C Main Information Display: This display delivers messages and status indications to help you operate the receiver. 6 FRONT-PANEL CONTROLS D Speaker/Channel Input Indicators: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position. (See page 20 for more information on configuring speakers.)

) The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted. (See page 31 for more information on the Channel Indicators). NOTE: When you have reassigned the surround back speakers to the remote zone using the MULTI ROOM SETUP menu, the boxes that indicate the presence of the surround back speakers will automatically disappear, reflecting the fact that the main listening area is now configured for 5.1-channel operation. (See page 33 for more information on reassigning the surround back speakers for multiroom use.) E Surround Modes: Press this button to select a surround sound (e.g. ,multichannel) mode. The Surround Modes menu will appear on screen, and the menu line will appear on the lower line of the frontpanel display. Use the front-panel or remote KL Buttons to highlight a different menu line: Auto Select, Virtual Surround, Stereo, Movie, Music or Video Game. Each line represents a type of audio signal, and is set to the surround mode the AVR will automatically select when it detects the audio signal. You may manually select a different mode for each type of audio.

Press the OK Button when the menu line is highlighted, and the available surround mode options for the current signal will appear. Use the KL Buttons to select the desired mode, and press the OK Button to engage it. Press the Back/Exit Button to exit the Surround Modes menu and display the next higher menu in the hierarchy. See the Advanced Functions section for more information on surround modes. F Back/Exit: Press this button to return to the previous menu. When the main AVR menu is displayed, press this button to exit the menu system. G Digital Optical Front Input: Connect the optical digital audio output of an audio or video product to this jack. H Digital Coax Front Input: This jack is normally used for connection to the output of portable digital audio devices, video game consoles or other products that have a coax digital jack. I Video Front Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. J Source List: Press this button to select a source device, which is a component where a playbacack () terminal on the AVR to the black negative () terminal on your speaker. (See page 15 for more information on speaker polarity.) F Surround Speaker Outputs: Connect these outputs to the matching + and terminals on your surround channel speakers. In conformance with the new CEA color code specification, the Blue terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on the Surround Left speaker with older color coding, while the Gray terminal should be connected to the red (+) terminal on the Surround Right speaker with the older color coding. Connect the black () terminal on the AVR to the matching black negative () terminals for each surround speaker. (See page 15 for more information on speaker polarity.)

) G Switched AC Accessory Outlet: This outlet may be used to power any device that you wish to have turn on when the AVR is turned on with the System Power Control switch I. H RS-232 Serial Port: This specialized connector may be used with your personal computer in case Harman Kardon offers a software upgrade for the receiver at some time in the future. Leave the Mode switch M popped out in the Operate position, unless the AVR is being upgraded. The Reset switch C is used only during the upgrade process. I AC Power Cord: Connect the AC plug to an unswitched AC wall output. J Video 2 Component Video Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. Do not use these inputs if HDMI connection is possible, use the HDMI inputs instead. K Monitor Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the two Component Video Inputs JL is selected the signal will be sent to these jacks.



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**L Video 1 Component Video Inputs:** These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. Do not use these inputs if HDMI connection is possible, use the HDMI inputs instead.

*Note:* All component inputs/outputs can be used for RGB signals too, in the same way as described for the Y/Pr/Pb signals, then connected to the jacks with the corresponding color. RGB connection is not possible if the source outputs a separate sync signal. **M Update Mode Button:** Leave the Mode switch popped out in the Operate position, unless the AVR is being upgraded. The Reset switch **C** is used only during the upgrade process. **N Coaxial Digital Inputs:** Connect the coax digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to these jacks.

The signal may be either a Dolby Digital signal, DTS signal, a 2 channel MPEG 1 signal, or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. **O Surround Back/Multiroom Speaker Outputs:** These speaker terminals are normally used to power the surround back left/surround back right speakers in a 7.1 channel system. However, they may also be used to power the speakers in a second zone, which will receive the output selected for a multiroom system.

To change the output fed to these terminals from the default of the Surround Back speakers to the Multiroom Output, you must change a setting in the Multiroom Menu of the OSD system. See page 33 for more information on configuring this speaker output. In normal surround system use, the brown and black terminals are the surround back left channel positive (+) and negative (-) connections and the tan and black terminals are the surround back right positive (+) and negative (-) terminals. For multiroom use, connect the brown and black SBL terminals to the red and black connections on the left remote zone speaker and connect the tan and black SBR terminals to the red and black terminals on the right remote zone speaker.

**9 ENGLISH REAR-PANEL CONNECTIONS**  
**P Video 1 Video Outputs:** Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR. **Q Video 1 Video Inputs:** Connect these jacks to the PLAY/OUT composite or S-Video jacks on a TV or other video source. **R Optical Digital Inputs:** Connect the optical digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to these jacks. The signal may be either a Dolby Digital signal, a DTS signal, a 2 channel MPEG 1 signal, or a standard PCM digital source. **S Analog 4 Audio Inputs:** Connect these jacks to the PLAY/OUT audio jacks on a TV or other audio or video source. **T Video 2 Video Inputs:** Connect these jacks to the PLAY/OUT composite or S-Video jacks on a second VCR or other video source.

**U Remote Input and Output:** If the AVR's front-panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to the Remote IN jack. The Output connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment. **V Zone 2 IR Input:** Connect the output of an IR sensor in a remote room to this jack to operate the AVR's multiroom control system. **W Preamp Outputs:** Connect these jacks to an optional, external power amplifier for applications where higher power is desired. **X HDMI Output:** Connect this jack to the HDMI input on a compatible HDMI-equipped video display. **Y Video 3 Video Inputs:** Connect these jacks to the PLAY/OUT composite or S-Video jacks on any video source. **Z Analog 3 Audio Inputs:** Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. **a HDMI Inputs:** Connect the HDMI output of video sources such as a DVD player, set-top box or HDTV tuner to either of these jacks.

**b Main Power Switch:** Press this button ON to apply power to the AVR. When the switch is ON, the unit is placed in a Standby mode, as indicated by the amber LED 2. This button MUST be ON to operate the unit. To turn the unit off completely and prevent the use of the remote control, this switch should be pressed OFF. **NOTE:** This switch is normally left in the "ON" position.

With the AVR's powerful processor, you may connect up to three HDMI-equipped source devices to the HDMI inputs using a single-cable connection, while benefiting from superior digital audio and video performance. However, if your video display is not HDMI-compatible, you will need to connect the source device to one of the other source inputs, selecting a coaxial or optical digital audio input and analog video input. See the Connections and Installation sections for more information. If your video display has an HDMI input, but some of your sources have only analog video outputs, you may still rely on just the HDMI video connection to your display; the AVR will automatically transcode analog video signals to the HDMI format. **NOTE ON VIDEO CONNECTIONS:** When connecting a video source product such as a VCR, DVD player, satellite receiver, cable set-top box, personal video recorder or video game to the AVR 260, you may use either a composite or S-video connection, but not both.

**10 REMOTE CONTROL FUNCTIONS**  
**A AVR Power On** **B AVR Power Off** **C Source Selectors** **D Audio Effects Button** **E Transport Controls** **F Menu Navigation** **LKM G Sleep Button** **H Main Tuning Buttons** **I Last Button** **J Numeric Keys** **K Video Mode Button** **L Menu Button** **M Activity Button** **N Back/Exit Button** **O Master Volume** **P Disc Menu Button** **Q Mute Button** **R Surround Mode Button** **S Device Power OFF Button** **T Device Power ON Button** **U Transmitter Window** **V OK Button** **W Settings Buttons** **X Zone Select Button** **Y Red/Green/Yellow/Blue Color Buttons** **ENGLISH 11 N Note:** The function names shown here are each button's feature when used with the AVR. Most buttons have additional functions when used with other devices. See page 46 for a list of these functions. **REMOTE CONTROL FUNCTIONS** The remote is capable of operating the AVR 260 and most Harman Kardon CD changers or players, CD Recorders and Blu-ray players, using the control codes that are part of the remote. **A AVR Power On:** When the AVR 260 is in the Standby mode, as indicated by the Power Indicator 2 glowing amber, press this button to turn the unit on. **B AVR Power Off:** When the AVR 260 is turned on, press this button to place it in the Standby mode. Note that in this condition, the unit is still connected to AC Power. **C Source Selectors:** Press these buttons to select an input source for the AVR 260. **D Audio Effects Button:** Press this button to go directly to the Audio Effects Menu. **E Transport Controls:** These buttons are used to control Play, Play Forward, Play Reverse, Stop, Pause and Record functions on compatible Harman Kardon compact disc players/changers and cassette tape decks.



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*F Menu Navigation Buttons: Use these buttons to move Up, Down, Left or Right when using the Menu system of the AVR 260. G Sleep Button: Press this button to place the unit in the Sleep mode. Each press of the button selects the amount of time that will remain before the unit will automatically go into the Standby mode, as shown in the Main Information Display C, in the following order: K Video Modes Button: Press this button to go directly to the Video Modes Menu. L Menu Button: When using a H/K DVD player with the receiver, you can activate the DVD Menu with this button. M Activity Button: This button may be programmed to transmit a series of commands with a single press, which is useful for powering on all devices and selecting the correct settings on each device, or for selecting multi-digit channels with a single press. See the section on Programming the Remote for more information on Activities. Press this button to enter the Activity programming function, or before pressing one of the Buttons that you have programmed with an Activity sequence, to begin transmitting the entire sequence. N Back/Exit Button: Press this button to go back to the previous Menu or to exit a Menu. O Master Volume: Press these buttons to raise or lower the AVR 260's volume. P Disc Menu: Press this button to open the menu of a DVD disc that you are watching. Q Mute Button: Press this button to momentarily silence the AVR 260. R Surround Modes Button: Press this button to enter the Surround Modes selection Menu. S Device Power Off: Turns Off the power of other devices that you have selected to control with the Source Selector Buttons C. T Device Power On: Turns On the power of other devices that you have selected to control with the Source Selector Buttons C. Holding the button pressed for some seconds will directly turn off the Sleep time selection.*

*H Channel/Page Button: When the tuner has been selected, this control selects a preset radio station. Press these buttons while operating a cable, satellite or HDTV set-top box or a television to change channels. The Page control may be available with some DVD players when playing a DVD Audio disc containing pages of images associated with a track. I Last Button: When the tuner is in use, pressing this button returns to the last station tuned. When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel.*

*J Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions or track numbers with CD players/ changers or to tune stations directly. U Transmitter Window: Point this area of the remote toward the receiver when using the remote. V OK Button: This button confirms settings and orders in the menus. W Settings Buttons: Open the AVR, INFO or SOURCE settings with one press of one of these buttons. X Zone Select: This button slides sideways to switch the remote control between controlling Zone 1 or Zone 2 of the AVR. Y Color Buttons: These four buttons are used as color buttons when controlling a TV set. They have various functions when controlling other devices. Please refer to the remote control Code Tables page 46. 12*

**INSTALLATION AND CONNECTIONS** After unpacking the unit, and placing it on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment. **HDMI Input Connections** The different "Version" levels of HDMI define which type of audio signals it is compatible with.

Based on the lowest level of HDMI among your sources, the connections to the AVR should be made as follows:

- HDMI 1.0 sources carry digital video and multichannel or 2-channel PCM audio signals only. Connect the HDMI output of a 1.0 source to either of the HDMI Inputs a on the AVR. If the product is a DVD-Audio player or other source that has multichannel analog audio outputs, connect them to the 8-Channel Direct Inputs 9. With an HDMI 1.0 source, particularly a DVD player, make certain that the menus in the source device are set to "Bitstream Out" or "Original" so that 5.1 digital audio is available. If you find that 5.1 Dolby Digital or DTS audio is not available on the HDMI connection, it will be necessary to make an additional connection between the source and the AVR 260 to either the Coaxial NJ or Optical RH Digital Inputs.
- HDMI 1.1 sources carry the multichannel digital audio output from DVD-Audio players in addition to the digital video. If you have an HDMI 1.1-equipped product, the only connection needed for listening in the main room is from the HDMI output of the source to either of the HDMI Inputs a on the AVR. If the player has SACD, HD-DVD or Blu-ray capability, you will need to connect the analog outputs of the source to the 8-Channel Direct Inputs 9.
- HDMI 1.2 (and higher) sources should be connected as shown above for HDMI 1.1, except that a separate analog connection is not needed for SACD players.
- HDMI 1.3 sources should be connected as shown above for HDMI 1.1, except that a separate analog connection is not needed for SACD, HD-DVD or Blu-ray players. In addition, the AVR will convert analog video signals to the HDMI format, upscaling to high-definition 720p or 1080p resolution. You may view the AVR's own on-screen display menus using the HDMI output. HDMI cable runs are usually limited to about 3 meters. The AVR incorporates a repeater, which allows an additional 3 meters of cable between the source device and the video display. If your video display or source device is not HDMI-capable, you will need to use either a coaxial or optical digital audio connection and one of the analog video connections (composite, S- or component video), if available, as described in the next paragraphs.
- It is not possible to feed an analog composite or S-video signal to a recorder when an HDMI input is in use. If an HDMI-equipped source also has analog audio and video outputs, connect them to the Video 2 or Video 3 Video TY and Audio MS on the AVR.
- In some instances, HDMI-equipped sources will not permit more than one video output at a time, and thus you cannot use the same source in the main listening room and with the recorder or remote zone at the same time. This is not a fault of the AVR, but rather a function of the content protection systems that are part of the HDMI standard.

**audio equipment connections** There are two formats for audio connections: digital and analog. Digital audio signals are of higher quality, and are required for listening to sources encoded with digital surround modes, such as Dolby Digital and DTS. There are three types of digital audio connections: HDMI, coaxial and optical. HD-DVD(R) or Blu-Ray(R) players with Dolby Digital Plus, Dolby True HD, DTS-HD Master Audio and DTS-HD require an HDMI connection for the transfer of digital audio. Any one type of digital audio connection may be used for other source devices, but never more than one for the same source.



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However, it's okay to make both analog and digital audio connections at the same time to the same source. Since the AVR is capable of processing the audio and video portions of an HDMI signal, if your video display device has an HDMI input, you may make a single HDMI connection from your source device (such as a DVD player) to the AVR. In that case no separate digital audio connection is required. We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals. When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet.

This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. HDMI connections HDMI is the abbreviation for High-Definition Multimedia Interface, which is quickly becoming the standard connection point between advanced video/ audio source products and displays, particularly for high-definition video signals. HDMI is a digital connection, eliminating the need to convert signals back and forth from digital to analog to deliver a higher quality signal when used with digital sources. The signals carried on HDMI may, but do not always, include audio, offering the possibility of a complete one-wire connection from a source to the AVR. However, it is important to note that there are a number of different versions of the HDMI standard in use.

Before connecting any HDMI products to your AVR, it is helpful to find out in advance their level of HDMI connectivity. Some source or display components in your system may use DVI (Digital Video Interface) for digital video connections. DVI carries the same digital video signals as HDMI but uses a larger connector and does not transport audio or control signals. In most cases, you may mix and match DVI and HDMI digital video connections by using optional connector adapters. Note, however, that some DVI-equipped video displays are not compatible with the HDCP copy protection coding that is increasingly carried with signals connected via HDMI.

If you have an HDMI source and a DVI-equipped display, you may occasionally be unable to view a program if the display does not include HDCP. This is not the fault of the AVR or your source; it simply indicates that the video display is not compatible. 13 ENGLISH INSTALLATION AND CONNECTIONS HDMI Output Connections Connect the HDMI Output X to an HDMI input on your video display. Thanks to the AVR 260's video processing system, all video input signals are converted to an HDMI output, so only one connection is required between the AVR and your display. Referring to drawing of the remote control on page 11, there is a section of 7 buttons marked C, near the top of the remote designated "Source Selectors": Cable/Sat, DVD, Media Server, Radio, TV, Game and AUX. Each of these buttons corresponds to a "source input". The AVR's flexible design allows you to use almost any combination of audio and video connections for each source device. The goal of the installation is to match up each of your source devices, e.g., DVD player and cable television box, with the correct connectors on the AVR.

You may connect a source device to any appropriate input connectors. Note which audio and video inputs are used for each device in Table A5 in the appendix. Table A1 indicates the default input-connection assignments, any of which may be changed to match the actual connections in your system. The precise connections to be made depend on the capabilities of the source device and your video display (TV). Select the best audio and video connections for each source. You can then add the name of the unit to the name of the assigned input, to make it read for example: "AUX - CD". (Please note that the AVR does not have a Phono input with RIAA for direct hook-up to a record player. You must use a separate RIAA preamplifier between a record player and the AVR) NOTE: If you wish for your digital source device to be available for use by the multiroom system, you will need to connect its analog audio outputs to the appropriate inputs on the AVR 260, as the multiroom system is not capable of distributing digital signals to the remote zone. 4. Connect the Coaxial or Optical Digital Outputs A on the rear panel of the AVR to the matching digital input connections on a CD-R or MiniDisc recorder.

5. Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals 0. analog and Digital Input connections 1. Connect the analog output of a CD player to any of the analog audio inputs.

NOTE: When the CD player has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted. 2. Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the analog audio input jacks 2. Connect the analog Record/In jacks on the recorder to the audio output jacks 3 on the AVR. 3.

Connect the digital output of any digital sources such as a CD or DVD changer or player, advanced video game, a digital satellite receiver, HDTV tuner or digital cable set-top box or the output of a compatible computer sound card to the Optical and Coaxial Digital Inputs RNGH. We recommend connecting the coaxial digital audio output of your DVD player to the Coax 1 Digital Audio Input N, since that digital input is assigned to the DVD source by default. If your DVD player has HDMI connection, use HDMI connection instead. Although there is no official source on the AVR named CD, Phono or Audio, you may assign the audio device to an available source, such as TV (if the Cable/Sat source is in use for broadcast television), Game or AUX. 6. Connect the supplied FM antenna to the FM (75 ohm) connection 1. The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you should use a 300-ohm-to-75-ohm adapter to make the connection. 7. Connect the front, center and surround speaker outputs DEF0 to the respective speakers.

To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable. Many brands of cable are available and the choice of cable may be influenced by the distance between your speakers and the receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. Regardless of the brand of cable selected, we recommend that you use a cable constructed of fine, multi-strand copper with a cross-section greater than 2 mm<sup>2</sup>. Cable with a cross-section of 1.5 mm<sup>2</sup> may be used for short runs of less than 4 m. We do not recommend that you use cables with a cross-section less than 1 mm<sup>2</sup> due to the power loss and degradation in performance that will occur.



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Cables that are run inside walls should have the appropriate markings to indicate listing with any appropriate testing agency standards. Questions about running cables inside walls should be referred to your installer or a licensed electrician who is familiar with the applicable local building codes in your area.

14 INSTALLATION AND CONNECTIONS When connecting wires to the speakers, be certain to observe proper polarity.

Note that the positive (+) terminal of each speaker connection now carries a specific color code as noted on page 8. However, most speakers will still use a red terminal for the positive (+) connection. Connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity.

If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front-left and front-right or surround-left and surround-right speakers, even if the speakers are a different distance from the AVR. 8. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output 4 to the line-level input of a subwoofer with a built-in amplifier.

When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information. 9. If an external multi-channel audio source with 5.1 outputs such as an external digital processor/decoder, DVD-Audio, SACD, Blu-ray or HD-DVD player is used, connect the outputs of that device to the 8-Channel Direct Inputs 9, or, more easily, use the HDMI connection between such a device and the AVR, or both. If a multichannel analog audio connection is required for certain lossless formats (e.g. DVD-Audio, SACD, HD-DVD or Blu-ray Disc), you may make both connections. To listen to the multichannel disc, first select the HDMI source input, then select the 6-/8-channel analog audio inputs, and the AVR will retain the last video source you selected. 1.

Connect a VCR's audio and video Play/Out jacks to the Video 2 and Analog 4 In jacks ST on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 2 and Analog 4 Out jacks P7 on the AVR. ENGLISH 2. Connect the digital audio outputs of a CD, MD or DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs RNGH. NOTE: When connecting a device such as a digital cable box or other set-top tuner product with a digital audio output, we recommend that you connect both the digital and analog outputs of the product to your AVR. The audio input polling feature of the AVR will then be able to make certain that you have a constant audio feed, since it will automatically switch the audio input to the analog jacks if the digital feed is interrupted or not available for a particular channel. 3. Connect the Composite and S-Video (if S-Video device is in use) Monitor Output B jacks on the receiver to the composite and S-Video input of your television monitor or video projector. 4. If your DVD player and monitor both have component video connections, connect the component outputs of the DVD player to the Video 1 Component Video Inputs L.

Note that even when component video connections are used the audio connections must still be made to either one of the analog audio inputs or any of the Optical or Coaxial Digital Input jacks RN. 5. If another component video device is available, connect it to the Video 2 or Video 3 Component Video Input jacks J. The audio connections for this device should be made to either one of the audio input jacks or any of the Optical or Coaxial Digital Input jacks RN. 6. If the component video inputs are used, connect the Component Video Output K to the component video inputs of your TV, projector or display device. 7. If you have a camcorder, video game or other audio/video device that is connected to the AVR on a temporary, rather than permanent basis, connect the audio, video and digital audio outputs of that device to the Front Panel Inputs GHI. VIDEO equipment connections Video equipment is connected in the same manner as audio components. Again, the use of high-quality interconnect cables is recommended to preserve signal quality.

To ensure best video performance S-Video sources should be connected to the AVR only with their S-Video In/Outputs, not with their composite video connectors too. If you have already connected a source device to one of the HDMI inputs as explained in the Audio Equipment section, then you have automatically made a video connection at the same time, as the HDMI signal includes both digital audio and video components. If your video display or source device is not HDMI-capable, you will need to use one of the analog video connections (composite, S- or component video), if available, as described below. If the source device is not capable of transmitting its digital audio signal through the HDMI connection, then use one of the coaxial or optical digital audio inputs for the source. 15 INSTALLATION AND CONNECTIONS System and power connections The AVR is designed for flexible use with multiroom systems, external control components and power amplifiers. ac power connections This unit is equipped with one accessory AC outlet. It may be used to power accessory devices, but should not be used with high-current draw equipment such as power amplifiers. The total power draw to the Switched Outlet G should not exceed 50 watts. The Switched G outlet will receive power only when the unit is on completely. This is recommended for devices that have no power switch or a mechanical power switch that may be left in the "ON" position.

NOTE: Many audio and video products go into Standby mode when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command. main room remote control extension If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, the remote sensor of any Harman Kardon or other compatible device, not covered by the door, or an optional remote sensor may be used. Connect the Remote IR Output of that device or the output of the remote sensor to the Remote IR Input jack U. If other components are also prevented from receiving remote commands, only one sensor is needed.



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Simply use this unit's sensor or a remote eye by running a connection from the Remote IR Output jack U to the Remote IR Input jack on Harman Kardon or other compatible equipment. Speaker Selection No matter which type or brand of speakers is used, the same model or brand of speaker should be used for the front-left, center and front-right speakers. This creates a seamless front soundstage and eliminates the possibility of distracting sonic disturbances that occur when a sound moves across mismatched front-channel speakers. Zone II IR Link The key to remote room operation is to link the remote room to the AVR's location with wire for an infrared receiver and speakers or an amplifier. The remote room IR receiver (this can be an optional IR receiver or any other remotable Harman Kardon device in the remote room with IR sensor integrated) should be connected to the AVR via standard coaxial cable.

Connect the Remote IR Output of the device or of the optional sensor with the Zone II IR Input jack V on the AVR's rear panel. If other Harman Kardon compatible source equipment is part of the main room installation, the Remote IR Output jack U on the rear panel should be connected to the IR IN jack on that source device. This will enable the remote room location to control source equipment functions. NOTE: All remotely controlled components must be linked together in a "daisy chain". Connect the IR OUT jack of one unit to the IR IN of the next to establish this chain.

Speaker placement The placement of speakers in a multichannel home-theater system can have a noticeable impact on the quality of sound reproduced. Depending on the type of center-channel speaker in use and your viewing device, place the center speaker either directly above or below your TV, or in the center behind a perforated front-projection screen. Once the center-channel speaker is installed, position the left-front and right-front speakers so that they are as far away from one another as the center-channel speaker is from the preferred listening position. Ideally, the front-channel speakers should be placed so that their tweeters are no more than 60 cm above or below the tweeter in the center-channel speaker. They should also be at least 0.

5 meter from your TV set unless the speakers are magnetically shielded to avoid colourings on the TV screen. Note that most speakers are not shielded, even with complete surround sets only the Center speaker may be. Depending on the specifics of your room acoustics and the type of speakers in use, you may find that imaging is improved by moving the front-left and front-right speakers slightly forward of the center-channel speaker. If possible, adjust all front loudspeakers so that they are aimed at ear height when you are seated in the listening position. Using these guidelines, you'll find that it takes some experimentation to find the correct location for the front speakers in your particular installation. Don't be afraid to move things around until the system sounds correct. Optimize your speakers so that audio transitions across the front of the room sound smooth. multiroom audio connections Taking advantage of the AVR's built-in seven-channel amplifier, it is possible to use two of the amplifier channels to power speakers in the remote room. When using this option you will not be able to use the full 7.1-channel capabilities of the AVR in the main listening room, but you will be able to add another listening room without additional external power amplifiers.

To use the internal amplifiers to power a remote zone, connect the speakers for the remote room location to the Surround Back/Multiroom Speaker Outputs O.

Before using the remote room you will need to configure the amplifiers for surround operation by changing a setting in the Multiroom menu, following the instructions shown on page 16. NOTE: You may connect an optional IR sensor (Harman Kardon He 1000) in the remote room to the AVR via an appropriate cable. Connect the sensor's cable to the Zone 2 IR Input V on the AVR and use the remote to control the room volume. Alternatively, you may install an optional volume control between the output of the amplifiers and the speakers. 16 INSTALLATION AND CONNECTIONS At least 15 cm from ceiling No more than 60 cm Center Front Speaker At least 60 cm When the AVR is used in 5.1-channel operation, the preferred location for surround speakers is on the side walls of the room, at or slightly behind the listening position. In a 6.1-channel system, a back surround speaker is required, ideally placed at the center of the room's rear wall, pointing directly towards the front center channel speaker. The center of the speaker should face you (see below).

Front Right Speaker Front Left Speaker In a 7.1-channel system, both side surround and back surround speakers are required. The center of the speaker should face you (see below). Rear surround speakers are required when a full 7.1-channel system is installed, and they may also be used in 5.

1 channel mode as an alternative mounting position when it is not practical to place the main surround speakers at the sides of the room. Speakers may be placed on a rear wall, behind the listening position. As with the side speakers, the center of the rear surrounds should face you. The speakers should be no more than 2 meters behind the rear of the seating area. It is appropriate to configure the AVR 260 for either 5.

1- or 7.1-channel operation, but not for 6.1 channels. When 6.1-channel program material or a 6.1-channel processing mode is in use, material for the surround back channel will be outputted simultaneously through both the Surround Back Left and Right Speaker Outputs O. Connecting only one loudspeaker to these speaker terminals will not only deprive you of the benefits of 7.1-channel surround modes, such as Logic 7, but will also interfere with the functioning of EzSet/ EQ speaker setup and calibration, as described on page 20. It may also put undesirable strain on the surround back amplifier circuits and power supplies. Subwoofers produce largely nondirectional sound, so they may be placed almost anywhere in a room.

Actual placement should be based on room size and shape and the type of subwoofer used. One method of finding the optimal location for a subwoofer is to begin by placing it in the front of the room, about 15 cm from a wall, or near the front corner of the room. Another method is to temporarily place the subwoofer in the spot where you will normally sit, and then walk around the room until you find a spot where the subwoofer sounds best. Place the subwoofer in that spot. You should also follow the instructions of the subwoofer's manufacturer, or you may wish to experiment with the best location for a subwoofer in your listening room. Once the speakers have been placed in the room and connected, the remaining steps are to program the system configuration memories.

Although it is necessary to assign input/output settings and surround mode choices manually, we recommend that you take advantage of the power and precision of EzSet/EQ to automatically select and enter the settings for all other audio parameters.



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*This will not only save you time; it will ensure that your room is calibrated and equalized with an accuracy not possible when these settings are made manually. You are now ready to power up the AVR 260 to begin these final adjustments. A) Front Channel Speaker Installation with Direct-View TV Sets or Rear-Screen Projectors.*

*Center Speaker Front Left Speaker Front Right Speaker 5.1-Channel System Side Surround Left Speaker Side Surround Right Speaker Center Speaker  
6.1-Channel System Front Left Speaker Front Right Speaker Side Surround Left Speaker Side Surround Right Speaker Back Surround Speaker Center Speaker  
7.1-Channel System Front Left Speaker Front Right Speaker Side Surround Left Speaker Side Surround Right Speaker Back Surround Left Speaker Back  
Surround Right Speaker 17 ENGLISH SYSTEM CONFIGURATION fIrSt turn on 1. Plug the Power Cable I into an unswitched AC outlet.*

*2. Press the Main Power Switch on the rear panel so that is in the ON position. Note that the Power Indicator 2 will turn amber, indicating that the unit is in Standby mode. 3. Remove the protective plastic film from the main front-panel.*

*If left in place, the film may affect the performance of your remote control. 4. Install the four supplied AAA batteries in the remote as shown. Be certain to follow the (+) and (-) polarity indicators that are on the top of the battery compartment. 5. Turn the AVR on either by pressing the System Power Control 1 on the front panel, or via the remote by pressing the AVR Power ON Button A, or any of the Input Selectors C on the remote. The Power Indicator 2 will turn white to confirm that the unit is on, and the Main Information Display C will also light up. The menu system is accessed by pressing the AVR Settings Button on the remote W. The Main Menu will appear (see Figure 1), and if a video source is playing, it will be visible behind the transparent menu. Figure 1 Main Menu The menu system consists of five main menus: Source Selection, Setup Source, Speaker Setup, Zone 2 and System.*

*Use the KLM N Buttons on the remote or front panel to navigate the menu system, and press the OK Button to select a menu or setting line or to enter a new setting. The current menu, setting line or setting will appear on the Lower Line of the Message Display as well as on screen. To return to the previous menu, press the Back/Exit Button. Be certain all settings are correct, as any changes you have made will be retained. When the Main Menu is on screen, pressing the Back/Exit Button will exit the menu system. using the on-Screen Display When making the following adjustments, you may find them easier to make via the unit's on-screen display system. These easy-to-read displays give you a clear picture of the current status of the unit and facilitate speaker, delay, input or digital selection you are making. To view the on-screen displays, make certain you have made a connection from either the HDMI Output X or the Video Monitor Out jack BK on the rear panel to the HDMI, component, composite or S-Video input of your TV or projector. In order to view the AVR's displays, the correct video input must be selected on your video display. IMPORTANT NOTE: When viewing the on-screen menus using a CRTbased projector, plasma display or any direct-view CRT monitor or television, it is important that they not be left on the screen for an extended period of time.*

*As with any video display, constant display of a static image such as these menus or video game images may cause the image to be permanently "burned into" the CRT. This type of damage is not covered by the AVR warranty and may not be covered by the projector TV set's warranty. SyStem Setup The AVR 260 features an advanced memory system that enables you to establish different configurations for digital input and surround mode for each input source. This flexibility enables you to custom tailor the way in which you listen to each source and have the AVR memorize them. This means, for example, that you may associate different surround modes and analog or digital inputs with different sources.*

*Once these settings are made, they will automatically be recalled whenever you select that input. However, we recommend that the first time you use the AVR, you take advantage of the simplicity of configuring the system using the EzSet/EQ process, which takes the guesswork out of speaker size and delay settings, and balances the speaker output levels to tailor the AVR's sound presentation to your specific system and room. Before beginning the EzSet/EQ procedure, there are a few adjustments that need to be made to ensure accurate results. Source Selection For direct access to any source, press its Source Selector on the Remote Control C. Sources can also be chosen from the Source Selection menu that can be activated by pressing the AVR Settings Button W on the remote control.*

*The AVR will switch to the audio and video inputs assigned to the source. If you specified a surround mode for the source, the AVR will switch to that mode. The source name will appear in the upper line of the front-panel display. If you retitled the source, the new title will appear. The audio input assigned to the source (analog or one of the digital audio inputs) will also appear. The surround mode will be displayed on the lower line. Any other settings you adjusted in the Setup Source menu will also be selected. You may view these settings in the Source Info menu at any time by pressing the Info Settings Button W. 18 SYSTEM CONFIGURATION audio and Video Input Selection Please see Table A1 in the appendix for the factory default input assignments for each source. You may assign any available input to any source using the Source Info menu, accessible either by pressing the AVR Settings Button W and selecting the Setup Source line, or by pressing the Info Settings Button W for direct access.*

*When a source is selected, the AVR will check the assigned digital audio input for a signal. If one is present, the digital input will be selected. If not, the AVR will select the analog audio input specified at the Audio Auto Polling line of the Setup Source menu. If you don't want the AVR to select an analog audio input for the source, change this setting to Off. The AVR will also select the assigned video source. There are no "Audio Only" sources on the AVR, other than the Radio, which uses a special on-screen menu. If no video signal is present, the display will remain black. You may pair an audio device with an A/V device's video signal using the Source Info menu as explained in the Initial Setup section. Sources may share audio or video inputs to suit your application. Surround Mode: Select this line to display the Surround Mode submenu, where you may program the desired surround mode for various types of analog programs, including movies, music and games.*

*You may also specify a specific stereo mode (depending on the number of channels desired) and a virtual surround mode if your system uses fewer than the full complement of seven main speakers (plus a subwoofer).*



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Digital surround signals, such as Dolby Digital and DTS programs, are automatically played in their native formats, although you may change the surround mode at any time. See the Advanced Functions section for information on surround modes available with digital programs. In the factory default Auto Select mode, the AVR will analyze the source signal and select the optimum playback mode. At the factory the AVR was programmed to use Logic 7 Movie mode for optimal playback of movies, including television programs; Logic 7 Music mode for music recordings, such as CDs; and Logic 7 Game mode when a video game console is in use.

**Audio Format From Source:** This line is informational only. When a digital program is playing, its format will be identified here. When analog audio programs are playing, this line indicates NO AUDIO INPUT, referring to digital inputs only. **Video Input from source:** Select this line to assign the correct video input to the source. Refer back to Table A5 in the appendix, where you noted the physical video input the source is connected to, and select the input here.

**Audio Input from source:** Select this line to assign the correct analog or digital audio input to the source. Refer back to Table A5 in the appendix, where you noted the physical audio input the source is connected to, and select the input here. If both analog and digital audio connections were made, select the digital input here, and select the analog input at the Audio Auto Polling line below. **NOTE:** For sources connected to an HDMI Input, the Video and Audio Input settings should indicate the same HDMI connection. **Resolution to Display:** This line reflects the video output resolution, which is dependent upon the capabilities of the video display. **NOTE:** When using the AVR's on-screen menu system, we recommend selecting a video output resolution of 720p or higher for best legibility, and to provide graphics that simplify some configuration options. Depending on the resolution selected, the menus shown by your system may vary in appearance. If the display is connected to the AVR's Composite or S-Video Monitor Output, the video output resolution must be manually set to 576i to view any content, including the AVR's own menus. The AVR's default resolution is set to 576i. Since there is no picture if the resolution is set higher than the display's capability, or if the HDMI system does not automatically select the best resolution, in these cases you must adjust the resolution by pressing the front-panel Resolution Button followed by the Up/Down Buttons 3 until the correct setting appears on the Lower Line of the front-panel Message Display and confirm with the OK Button 5.

The Display now shows CANCEL, and you must scroll to have the Display show ACCEPT with the Up/Down Buttons 3 and then press OK to make the new Resolution take effect. If you press OK when CANCEL is on the screen, or if you do nothing, the Resolution remains as it was before. For composite and S-video, the correct setting is 576i. For component video, it is the highest resolution where a picture is visible. **ENGLISH Set up Sources** The Source Info menu is used to assign the correct physical audio and video connections to each source. It also provides access to a variety of other settings, many of which may be adjusted later as you become more familiar with the AVR. The following settings are not optional and must be adjusted now to enable playback of each source: Video Input from source, Audio Input from Source and Resolution to Display. The other settings may be adjusted at any time to improve performance. To display the Source Info menu, press the Info Settings Button (front panel 7 or remote W). A screen similar to the one shown in Figure 2 will appear.

This screen may also be accessed from the Main Menu by selecting the Setup Source line and selecting a source from the slide-in menu. **Figure 2 Setup Source Menu Audio Effects:** Select this line to display the Audio Effects submenu, where you may: adjust the bass and treble tone controls; adjust the LFE trim; activate the saved EzSet/EQ settings or adjust the night mode setting. It is recommended that you leave this submenu at its default settings, and return to it later if your system requires any fine-tuning. See the Advanced Functions section for more information. **Video Modes:** Select this line to display the Video Modes submenu, where you select from preprogrammed or custom picture settings and make picture adjustments.

It is recommended that you leave the settings at their factory defaults. Picture adjustments should be made to your video display first, with this menu used only for fine-tuning. See the Advanced Functions section for more information. **19 SYSTEM CONFIGURATION NOTE:** When the display has a DVI input which is connected to the AVR using an HDMI-to-DVI adapter, if the display is not HDCP-compliant, the picture will be distorted. In that case, a different video connection must be used (component, composite or S-video).

**Resolution from Source:** This line, which is informational only, indicates the video format (NTSC or PAL) output by the source device. **Adjust Lip Sync:** Use this adjustment to resynchronize the audio and video signals from a source to eliminate a "lip sync" problem. Lip sync issues can occur when the video portion of a signal undergoes additional processing in either the source or the video display that desynchronizes it from the audio. Select this line to display the Lip Sync adjuster by itself, enabling you to view the video while listening to the audio. Use the M N Buttons to delay the audio by up to 180ms. See Figure 3. **Speaker Setup With EzSet/EQ** you are able to calibrate your system in a fraction of the time it would take to enter the settings manually, and with results that rival those achieved with expensive test equipment and time-consuming procedures. The end result is a system calibration profile that enables your new receiver to deliver the best possible sound, no matter what type of speakers you have or what the dimensions of your listening room are. We recommend that you take advantage of the precision of EzSet/EQ to calibrate your system, but if desired you may also make any of the configuration settings manually, or trim the settings provided by EzSet/EQ by following the instructions. **Figure 4 Figure 3 Adjust Lip Sync Change Name:** Use this line to change the display name for your source.

This can be useful if your source's device type is different from the available source names. Select this line and use the KL Buttons to scroll forward or reverse through the letters A through Z. When the desired letter appears, use the N Button to move the cursor to the next position. Move the cursor again to leave a blank space. When you have finished entering the new name, press the OK Button. The name will be used on the front panel to refer to the source, and will appear next to its original name, e.g. DVD, throughout the on screen menu system.



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