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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 760. You'll find the answers to all your questions on the HARMAN KARDON AVR 760 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

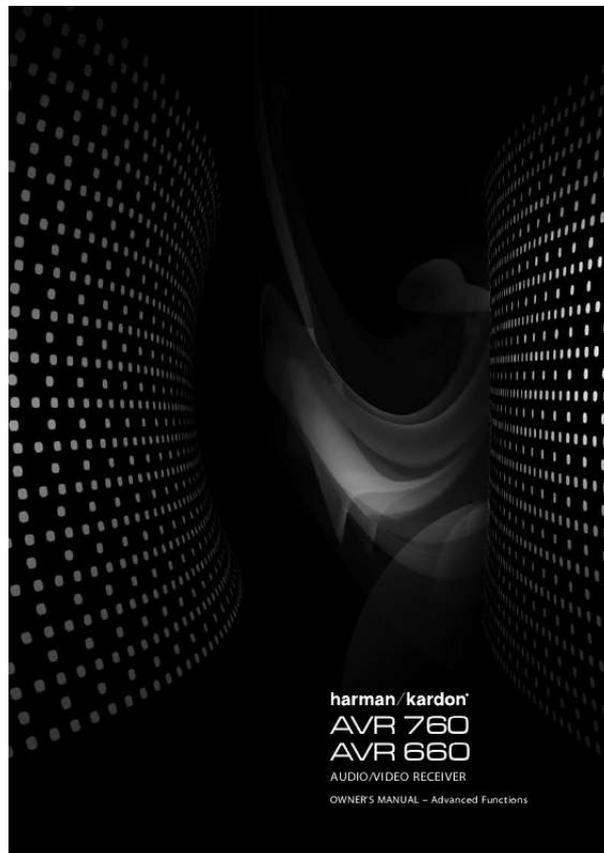
User manual HARMAN KARDON AVR 760

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Operating instructions HARMAN KARDON AVR 760

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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.

@ @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. @ @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. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. @ @15.

@ @16. @ @17. @ @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. Important Safety Information Verify Line Voltage Before use Your AVR 760/AVR 660 has been designed for use with 230-240 volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard and may damage the unit. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet.

Do not use extension cords To avoid safety hazards, use only the power cord supplied with your unit. We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service center with a cord meeting factory specifications. Handle the ac power cord Gently When disconnecting the power cord from an AC outlet, always pull the plug; never pull the cord.

If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet. Do not open the cabinet There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty. If water or any metal object such as a paper clip, wire or staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center. NOTE: This Owner's Manual explains the advanced functions of the harman/kardon AVR 760/AVR 660 receivers.

It also contains note sheets for your personal use when setting up and adjusting your unit. Please read and use the Basic Manual that came with your unit before continuing with this Advanced Manual. 2 TABLE OF CONTENTS and FEATuRES ADVANCED FuNCTIONS 4 Audio Processing and Surround Sound 4 Analog Audio Signals 4 Digital Audio Signals 4 Surround Modes 5 Dolby® Surround Settings 6 Manual Speaker Setup 8 Audio Effects 9 Video Adjustments 11 Multizone Operation 11 System Settings 13 Advanced Remote Control Functions 15 Appendix with Tables for Default Settings, Worksheets and Remote Control Codes Please register your AVR 760/AVR 660 at 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. Harman Kardon aVr 760/aVr 660 7.2/7.1-channel audio/Video receiver Audio Section · AVR 760: 85 Watts x 7, seven channels driven at full power at 8 ohms, 20Hz, 20kHz, <0.

07% THD, 595 watts total. AVR 660: 75 Watts, 525 watts total. · High-current capability, ultrawide-bandwidth amplifier design with low negative feedback · All-discrete amplifier circuitry · Quadruple-crossover bass management with DVD-Audio bass management capability · Dual 32-bit TI DA 710 DSP processors · 192kHz/24-bit A/D and D/A conversion · Sampling upconversion to 96kHz · Dolby® Volume processing Surround Modes · Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD · Dolby Pro Logic® II and IIX (Movie, Music and Game), up to 96kHz · Dolby Virtual Speaker Version 2 (Reference or Wide, 2-channel) · Dolby Headphone Version 2, up to 96kHz · DTS-HD High Resolution Audio™, DTS-HD Master Audio™ · DTS® (5.1; DTS Stereo; DTS-ES® 6.1 Discrete and Matrix) · DTS 96/24™ (DTS Stereo) · DTS Neo:6® (Cinema 5-, 6- or 7-channel; Music 5-, 6- or 7-channel), up to 96kHz · Logic 7® (Movie, Music and Game), up to 96kHz · 5- or 7-Channel Stereo, up to 96kHz · Surround Off (DSP or Analog Bypass) 3 ENGLISH ADVANCED FuNCTIONS Much of the AVR 760/AVR 660's performance is handled automatically, with little intervention required on your part. The AVR 760/AVR 660 is capable of being customized to suit your system and your tastes. In this Advanced Functions Manual, some of the more advanced adjustments available are described. Digital audio signals Digital audio signals offer greater capacity, which allows the encoding of center and surround channel information directly into the signal. The result is improved sound quality and startling directionality, since each channel is reproduced discretely. Even when only two channels are encoded, the digital signal allows for a higher sampling rate that delivers greater detail.

High-resolution recordings sound extraordinarily distortion-free, especially at high frequencies. auDio proceSSInG anD Surround Sound Audio signals output by sources are encoded in a variety of formats that can affect not only the quality of the sound but the number of speaker channels and the surround mode. You may also manually select a different surround mode, when available. Surround modes Surround mode selection is dependent upon the format of the incoming audio signal, as well as personal taste. Table A13 offers a brief description of each mode and indicates the types of incoming signals or digital bitstreams the mode may be used with.

Additional information about the Dolby and DTS modes is available on the companies' Web sites: www.dolby.com and www.dts.com.



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When in doubt, check the jacket of your disc for more information on which surround modes are available. Usually, nonessential sections of the disc, such as trailers, extra materials or the disc menu, are only available in Dolby Digital 2.0 (2-channel) or PCM 2-channel mode. If the main title is playing and the display shows one of these surround modes, look for an audio or language setup section in the disc's menu. Also, make sure your player's audio output is set to the original bitstream rather than 2-channel PCM. Stop play and check the player's output setting. For any incoming signal, only a limited number of surround modes are available. Although there is never a time when all of the AVR 760/AVR 660's surround modes are available, there is usually a wide variety of modes available for a given input. Multichannel digital recordings are found in the 5.1-, 6.

1- or 7.1-channel formats. The channels included in a 5.1-channel recording are front left, front right, center, surround left, surround right and LFE. The LFE channel is denoted as ".1" to represent the fact that it is limited to the low frequencies. 6.1-Channel recordings add a single surround back channel, and 7.1-channel recordings add surround back left and surround back right channels to the 5.1-channel configuration.

New formats are available in 7.1-channel configurations. The AVR 760/AVR 660 is able to play the new audio formats, delivering a more exciting home theater experience. NOTE: To use the 6.1- and 7.

1-channel surround modes, the Surround Back channels must be enabled. See the Manual Speaker Setup section on page 6 for more information. The Digital formats are Dolby Digital 2.0 (two channels only), Dolby Digital 5.1, Dolby Digital EX (6.

1), Dolby Digital Plus (7.1), Dolby TrueHD (7.1), DTS-HD High-Resolution Audio (7.1), DTS-HD Master Audio (7.1), DTS 5.1, DTS-ES (6.1 Matrix and Discrete), DTS 96/24 (5.1), 2-channel PCM modes in 32kHz, 44.1kHz, 48kHz or 96kHz, and 5.1 or 7.

1 multichannel PCM. When a digital signal is received, the AVR 760/AVR 660 detects the encoding method and the number of channels, which is displayed briefly as three numbers, separated by slashes (e.g., "3/2/.1"). analog audio Signals Analog audio signals usually consist of two channels left and right. The AVR 760/AVR 660 offers three options for playback: 1. Analog Bypass Mode: The 2-channel signal is passed directly from the input to the volume control, without being digitized or undergoing any processing for bass management or surround sound. To select analog bypass mode: a) The analog audio inputs for the source must be selected. If necessary, press the Info Button on the remote and use the KL Buttons to scroll to the Audio Input from source setting.

b) The tone controls must be disabled by setting the Tone Control to Off. Press the Audio Effects Button to access the Tone Control setting. c) The 2-channel Stereo mode must be selected. Press the Surround Modes Button to access the STEREO line of the Surround Modes submenu. Press the OK Button to select 2-channel Stereo.

NOTE: Audio from The Bridge II source is analog, and when 2-channel Stereo mode is selected, the audio will be played in Analog Bypass mode. 2. Analog Surround Modes: The AVR 760/AVR 660 is able to process 2-channel audio signals to produce multichannel surround sound, even when no surround sound has been encoded in the recording. Among the available modes are the Dolby Pro Logic II/IIx modes, the Dolby Virtual Speaker modes, the DTS Neo:6 modes, the Logic 7 modes and the Stereo modes. 4 ADVANCED FuNCTIONS The first number indicates the number of front channels in the signal: "1" represents a monophonic recording, usually an older program that has been digitally remastered or, more rarely, a modern program for which the director has chosen a special effect.

"2" indicates the presence of the left and right channels, but no center channel. "3" indicates that all three front channels (left, right and center) are present. The second number indicates whether any surround channels are present: "0" indicates that no surround information is present. "1" indicates that a matrixed surround signal is present. "2" indicates discrete left and right surround channels. "3" is used with DTS-ES bitstreams to represent the presence of the discrete surround back channel, in addition to the side surround left and right channels. "4" is used with 7.1-channel digital formats to indicate the presence of two discrete side surround channels and two discrete back surround channels. The third number is used for the LFE channel: "0" indicates no LFE channel. "

1" indicates tEQ II process automatically detects the capabilities of each speaker, and optimizes the AVR 760/AVR 660's performance. If you are unable to run EzSet/EQ II calibration, or if you wish to make further adjustments, use the Manual Speaker Setup on-screen menus. Before beginning, place your loudspeakers as explained in the Speaker Placement section, and connect them to the AVR. Consult the owner's guide for the speakers or the manufacturer's Web s same distance from the listening position, enter your speaker distances as described in Step Three. Figure 29 Number of Speakers Menu Program the correct setting for each speaker group: ON when the speakers are present in the system, and OFF for positions where no speakers are installed. The Front Left & Right speakers are always ON and may not be disabled. Any changes will be reflected in the total number of speakers displayed at the top of the screen. 6 ADVANCED FuNCTIONS The setting for the surround back speakers includes a third option: Zone 2. The AVR 760/AVR 660 is capable of multizone operation, supporting placement of a pair of speakers in another room. The AVR 760/AVR 660's assignable surround back amplifier channels make multizone operation easier than ever, since an external power amplifier is not required.

Select the Zone 2 option at this line, and connect the Surround Back Speaker Outputs to loudspeakers located in the remote room. The main room will be configured automatically for up to 5.1 channels. See the Multizone Operation section for more information. NOTE: When the Surround Back speakers are set to "Zone 2", they will not be configured during the EzSet/EQ II process.

To use the speakers in the main listening area, configure them as "On", and run the EzSet/EQ II process for a 7.1- or 7.2-channel system. If the speakers will only be used during multizone operation, configure them manually, as explained below. The settings in this menu affect the remainder of the speaker setup process and the availability of various surround modes at any time.

When you have finished, select the Back option or use the Back/Exit Button. Sub Mode Move the cursor to the Sub Mode line. This setting depends upon how you programmed the front left and right speakers.



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· If you set the front speakers to a numeric crossover frequency, the subwoofer setting will always be LFE. All low-frequency information will always be sent to the subwoofer. If you don't have a subwoofer, either upgrade to full-range speakers or add a subwoofer at the earliest opportunity. · If you set the front speakers to LARGE, select one of the three settings for the subwoofer. L/R+LFE: This setting sends all low-frequency information to the subwoofer, including both information that would normally be played through the front left and right speakers, and the special lowfrequency effects (LFE) channel information. Off: Select this setting when no subwoofer is in use. All lowfrequency information will be sent to the front left and right speakers.

LFE: This setting plays low-frequency information contained in the left and right program channels through the front speakers, and directs only the LFE channel to the subwoofer. NOTE: If you are using a Harman Kardon HKTS Series speaker system, select the appropriate numeric crossover frequency for the Main Speaker groups, and the subwoofer will automatically be set to LFE. Adjust Crossover Frequencies Menu After you have programmed the number of speakers, the AVR will return to the Speaker Setup Position menu (see Figure 28). Navigate to the Crossover (Size) line and press the OK Button to display the Adjust Crossover Frequencies menu (see Figure 30). Adjust Speaker Distance Menu Placing the speakers at different distances from the listening positions can muddy the sound, as sounds are heard earlier or later than desired. Even if all of your speakers are placed the same distance from the listening position, do not skip this menu. On the Speaker Setup Position menu, move the cursor to the Distance line and press the OK Button to display the Adjust Speaker Distance menu. See Figure 31. Figure 30 Adjust Crossover Frequencies Menu The AVR will only display those speaker groups programmed in the Number of Speakers menu. Refer to Table A3 for each speaker's crossover.

For the main speakers, this is the lowest frequency the speaker reproduces well. For each main speaker, select one of the seven crossover frequencies: 40Hz, 60Hz, 80Hz, 100Hz, 120Hz, 150Hz or 200Hz. If the crossover frequency is below 40Hz, select the first option, "Large". This setting doesn't refer to the speaker's physical size, but to its frequency response, which is also called "full range". Specify the size of the subwoofer's transducer as 8, 10, 12 or 15 inches (20, 25, 30 or 38 cm).

The AVR always sets the subwoofer crossover to 100Hz, but uses the transducer size for equalization. Write down the settings in Table A3 in the appendix. When you have finished entering the settings, select Back, or press the Back/ Exit Button. Figure 31 Adjust Speaker Distance Menu Enter the distance from each speaker to the listening position, as measured in Step Two Measure Speaker Distances and recorded in Table A4 in the appendix (see page 17). The default unit of measurement is feet.

To change the unit to meters, return to the main AVR menu. Select the System Settings menu, then scroll down to the General AVR Settings section and select the Unit of Measure line. Press the OK Button to change the setting. Select a speaker, then use the M N Buttons to change the measurement. The values vary between 0 and 10 meter, with a default of 4 m for all speakers except the Surround Left and Right Speakers, for which the default is 3,3 meter. NOTE: If the surround back channels are assigned to the multizone system, you will not be able to adjust their delay settings. 7 ENGLISH ADVANCED FuNCTIONS Step four Setting channel output Levels manually For a conventional 2-channel receiver, the balance control affects the stereo imaging by adjusting the relative loudness of the left and right channels. With up to seven main channels, plus a subwoofer, imaging becomes both more critical and more complex. The goal is to ensure that each channel is heard at the listening position with equal loudness. EzSet/EQ II calibration can handle this critical task for you, simply and automatically.

However, the AVR's Adjust Speaker Levels menu allows you to calibrate the levels manually, either using the system's test tone or while playing source material. 1. Make sure all speakers have been placed and connected correctly. 2. Adjust the number of speakers, crossover, distance and sub mode for each speaker in your system, as described in Step Three. 3. Measure the channel levels in one of these ways, and adjust the channel levels using the Adjust Speaker Levels menu: a) Preferably, use a handheld SPL meter set to the C-Weighting, Slow scale. Adjust each channel so that the meter reads 75dB. b) By ear. Adjust the levels so that all channels sound equally loud.

c) If you are using a handheld SPL meter with source material, such as a test disc or an audio selection, play it and adjust the AVR's master volume control until the meter measures 75dB. Press the AVR Settings Button to display the menu system, and then navigate to the Speaker Setup line. Press the OK Button to display the Speaker Setup menu. Select Setup Listening Position 1 (AVR 760, AVR 660) or 2 (AVR 760), press the OK Button, and then navigate to the Level Adjust line. Press the OK Button to display the Adjust Speaker Levels menu.

See Figure 32. Test Tone: Determines whether the test tone is active. To begin, press the OK Button repeatedly to select the OFF, AUTO or MANUAL setting. Manually moving the cursor out of the channel listings area of the screen automatically stops the test tone. When this setting reads AUTO, the test tone will automatically circulate to all channels, pausing for a few moments at each channel and then moving to the next channel several seconds later, as indicated by the highlight bar.

Adjust the level for any channel when the test tone is paused there, using the M N Buttons. Use the KL Buttons to move the cursor to another line, and the test tone will follow the cursor. When this setting reads MANUAL, the test tone will not move to the next channel until you use the KL Buttons. Individual

Channels: If you are using an external source to set your output levels, navigate to each channel and use the M N Buttons to adjust the level, as desired, between 10dB and +10dB. When you have finished adjusting the speaker levels, select the Back option or press the Back/Exit Button. Record the level settings in Table A3 in the appendix. auDio effectS To adjust other audio settings, such as the tone controls, to improve performance, press the Audio Effects Button to display the Audio Effects menu (see Figure 24 in the Basic Manual). The menu may also be accessed from the Setup Source menu by pressing the Info Settings Button and selecting Audio Effects. NOTE: The settings in the Audio Effects menu affect each source independently. Dolby Volume: See page 30 of the Basic Manual for an explanation of Dolby Volume processing and its benefits.



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Refer to Table 3 on that page for an explanation of each of the Dolby Volume settings. **Tone Control:** Determines whether the treble and bass controls are active. When it's off, the tone controls are "flat", with no changes. When it's on, the bass and treble frequencies are boosted or cut, depending upon the tonecontrol settings. When an analog audio source is in use and the 2-Channel Stereo surround mode is selected, setting the Tone Control to "Off" places the unit in analog bypass mode. **Figure 32 Adjust Speaker Levels Menu** All of the speaker channels will appear with their current level settings. **Reset Levels:** To reset all levels to their factory defaults of 0dB, scroll down to this line at the bottom of the menu and press the OK Button. To set your levels using the AVR 760/AVR 660's internal test tone, adjust the TEST TONE line as follows: **Treble and Bass:** Boost or cut the high or low frequencies by up to 10dB by using the M N Buttons to change the temperature bar setting. The default setting is 0dB, at the center of the temperature bar. **LFE Trim:** Attenuates the loudness of the subwoofer.

The setting defaults to the maximum of 0dB. Press the M N Buttons to reduce the level by up to 10dB; the setting will appear as a negative number. **EQ:** This setting activates or deactivates the equalization settings obtained when the EzSet/EQ II process was run. The settings are saved for reactivation at a later listening session. **Speaker Setup:** Select Position 1 (AVR 760, AVR 660) or 2 (AVR 760) to activate the speaker configuration settings saved for the desired position.

The settings may be configured either by running the EzSet/EQ II process and saving the results, or manually, as explained in the Manual Speaker Setup section on page 6. When you have finished, press the Audio Effects Button or the Back/Exit Button. **8 ADVANCED FuNCTIONS ViDeo aDjuStmentS** The AVR 760/AVR 660 uses leading-edge Faroudja DCDi Cinema video processing technology. Incoming video is upscaled to 1080p (1080i with component video outputs) for outstanding video quality, even with analog video sources. The Faroudja DCDi Cinema Dual 3D comb filters and 10-bit video processing eliminate the jagged edges and moiré patterns seen with less advanced processing.

The "Torino" video processing chip generates on-screen graphics in high definition, and blends it with the incoming video, so that you can continue to watch a program while using system menus. The video processor automatically provides the best picture based on the capabilities of your video display and the incoming source video. You may experiment with the Video Modes menu adjustments to try to improve the picture further. **Picture Adjust:** Changes the aspect ratio of the displayed image. **Widescreen (16:9)** images are displayed on a full-screen (4:3) device in letterbox format. Black bars may appear above and below the image. When displaying full-screen images on a widescreen device, black or gray bars may appear to the left and right of the image (pillarboxing). Plasma and CRT monitors may suffer from "burn-in" when the same image, such as the horizontal or vertical bars, is left on screen for a long period of time. Adjust the picture so that it fills the display's screen. Highlight this setting and press the OK Button.

Each press of the KL Buttons changes the setting. Press the OK Button when the desired setting appears. **Auto Fit:** The AVR automatically adjusts the image, as required, to fit the display's capabilities. **Height Fit:** Adjusts the image to eliminate any bars above or below it. Bars may remain at the sides. **Width Fit:**

Adjusts the image to eliminate any bars on the sides. Bars may remain above and below the image. **Zoom 1x:** Displays the image as received from the source. If the image is in the 4:3 aspect ratio, on widescreen displays pillarbox format may be used. If the image is in the 16:9 aspect ratio, on full-screen (4:3) displays letterbox format may be used.

Zoom 2x and Zoom 3x: Stretches the image evenly to completely fill the screen. The outer portions of the image may be cropped. Experiment with this setting until you find a pleasing display format for each program. **Overscan:** For historical reasons, there is a convention to reserve an area around the border of a video frame, called "overscan", that may be viewed on newer high-definition displays, although it was not visible on older analog television sets. However, since not all displays are capable of showing this portion of the frame, directors avoid placing important information in that area.

If your video display is capable of displaying the overscan area, turn this setting on to avoid seeing a black border around the image which could cause unwanted "burn-in" on some plasma and CRT displays. The AVR turns this setting off by default when the source device is connected to one of the HDMI Inputs. The setting is turned on by default when the source is connected to one of the analog video inputs. **Advanced Video Settings:** Press the N or OK Button to display the Advanced Video Modes submenu (see Figure 34). This submenu is not accessible when the video processor (Video Mode setting) is turned off. **ENGLISH Video modes** Adjust the picture settings on your video display before adjusting the AVR. Access the picture settings from the Video Modes menu.

Press the Video Modes Button, and the screen shown in Figure 33 will appear. The menu may also be accessed from the Info Settings menu. **NOTE:** The settings in the Video Modes menu affect each source independently. **Figure 33 Video Modes Menu** **Video Mode:** The default setting of Off passes the video signal through to the display without any picture processing. Video scaling cannot be turned off, but selecting the HDMI Bypass mode in the Info Settings menu for a source connected to one of the HDMI Inputs passes the video signal directly from the HDMI Input to the HDMI Output, bypassing all video processing. Select one of these processing options to optimize the picture for the current program by applying adjustments to the brightness, contrast, color and sharpness: **Sports:** For sporting events. **Nature:** For programs shot outdoors, in a natural setting. **Movie:** For movies and many television broadcasts.

Custom: Allows manual adjustment of the picture settings. The Brightness, Contrast, Color and Sharpness settings appear as sliders with values ranging from 0 to 100. The default setting for each adjustment is 50. Use the M N Buttons to change each setting's value. **Figure 34 Advanced Video Modes Menu** **9 ADVANCED FuNCTIONS Noise Reduction:** Adjust this setting to Low, Medium or High to filter out signal noise, or turn it off. **MPEG Noise Reduction:** This setting is designed to address two specific types of video distortion, mosquito noise and blocking artifacts. If you see haziness or shimmering around the edges of objects or the scrolling credits in a film, or if the image appears to "pixellate" into blocks, change the MPEG Noise Reduction setting from Off to Low, Medium or High.



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Volume Status Messages: When the AVR is turned on, the volume is adjusted or the source is changed, or if a change in the input signal is detected, a status message will be displayed on screen. Select how long the message remains visible, from 2 to 10 seconds, with a default of 3 seconds. Select "Off" if you do not wish to see the status messages. *Menus:* The settings in the Surround Modes, Video Modes and Audio Effects menus only remain in effect during the current listening session. This setting governs how long these menus remain visible after the last adjustment: 5, 10 or 30 seconds, 1 minute or 5 minutes. Select "No Time-Out" to view the menus indefinitely, but this setting is not recommended, due to the danger of "burn-in" on some video displays. *Setup and Slide-In Menus:* This setting determines how long the setup menus (Main Menu, Speaker Setup Menu, Zone 2 Menu, all slide-in menus) remain visible after the last adjustment. Select a time-out period of 5, 10 or 15 (the default) minutes, or no time-out, which leaves the menus on screen until manually cleared. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays.

Screen Saver: Program a time-out period for no activity (with no menus displayed) before the AVR's built-in screen saver begins. Select a period of 5, 10, 20 or 30 minutes or 1 hour, or turn off the screen saver. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays. *System Information Software Version:* This line is informational only. From time to time, Harman Kardon Inc., may release software upgrades that improve performance or add features. If you are experiencing difficulties with the AVR, a customer service representative may ask for the software version of your product to determine whether a later upgrade is available. *Upgrade Software:* If a software upgrade is released for the AVR 760/AVR 660, installation instructions will be available in the Product Support section of the Web site or from Harman Kardon Customer Service. At that time, you may access this submenu to install the upgrade software. **NOTE:** During a system upgrade, do not power off the AVR or use any of its controls.

Doing so could permanently damage the AVR. **12 ADVANCED FuNCTIONS aDVanceD remote control functionS** The AVR 760/AVR 660 remote control also serves as a universal remote that may be programmed to operate other components. Refer to the Function List (Table A14 in the appendix) for assistance in operating your other components. The function of each button will not necessarily correspond to the label printed on the button. The AVR 760/AVR 660 remote is a sophisticated and versatile device that is easy to program, thanks to its menu-based system.

To access the menu, press and hold the AVR Settings Button for at least 3 seconds, until the remote's Main Menu appears in its LCD Text Display. The remote's menu is navigated using the KLM N Buttons and the OK Button. Scroll up or down to a desired menu option, and press the OK Button to select it. *activities (macros)* Activities are used to program sequences of up to 20 commands that are executed with a single button press. Activities are well suited for power-on and -off commands, to send out a multidigit channel number with one button press, or to control another device with more flexibility than the builtin punch-through controls.

Up to 11 activities may be programmed. **NOTE:** Use caution when programming complicated activities. It isn't possible to program a pause or delay before sending commands after Power On, and the component may not be ready to respond to commands immediately after powering on. To program, or "record" an activity: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed. 2. Use the KL Buttons to scroll to the Activity option, and press the OK Button. 3. Use the KL Buttons to select the Record Activity option, and press the OK Button.

4. Use the KL Buttons to select the command button, and press the OK Button. The command button is the key the user will press to execute the activity. Select the AVR Power On Button, the AVR Power Off Button or one of the Alphanumeric Keys. **NOTE:** When one of the Alphanumeric Keys is used as the command button, first press the Activity Button, then the Alphanumeric Key, to execute the activity. When the Alphanumeric Key is pressed by itself, the activity will not be executed. However, when the AVR Power On Button or the AVR Power Off Button is selected as the command button, the activity will be executed every time the programmed AVR Power Button is pressed. 5. Use the KL Buttons to select the last source, and press the OK Button. This places the AVR and the remote in the desired device mode after the Activity is finished.

6. Begin pressing the keys for the desired commands. Each command will appear in the LCD Display, with the source in use shown in square brackets on the left. To switch to another source, press its Source Selector. This will count as one of the 20 commands allowed in each activity.

To include the AVR Power On or AVR Power Off commands, first press the AVR Settings Button to set the remote in AVR device mode, then press the desired power button. To program menu navigation, press the N Button to make a selection, and press the M Button to return to a previous menu level. Pressing the OK Button will end the command sequence and save it as an activity, while pressing the Back/Exit Button will exit Program mode without saving the activity.

7. To end the command sequence, press the OK Button.

8. Use the KL Buttons to select either the End Activity option or the Edit Title option, and press the OK Button. End Activity: The activity will be saved. When the activity is executed, its command button, e.g., Activity 9, will appear in the LCD Display. main menu Program Device: Used to program the control codes for a source device into the appropriate Source Selector. See Step 14 in the Basic Manual for detailed instructions. Learn: Used to "learn" control codes from a source device's original remote, or to delete previously learned codes for individual keys or entire devices. See Step 14 in the Basic Manual for detailed instructions.

Change Device: Used while programming a Source Selector when the source device doesn't match the Source Selector's device type. For example, when the system uses two DVD players but no media server, you may program the second DVD player's control codes into the Media Server Source Selector by changing its device type to DVD. See Step 14 in the Basic Manual for detailed instructions. Activity: Used to program a sequence of up to 20 commands into one of 10 activities so that the sequence may be executed by pressing only two buttons (Activity Button and Alphanumeric Key for the specific activity). See below for detailed instructions.



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· **Punch-Through:** Used to allow transport- or channel-control of a different system component than the one currently being used. See below for detailed instructions. · **Rename:** Used to rename a Source Selector or key on the remote to correspond to its actual function. Renaming only affects information appearing in the remote's LCD Text Display. See Step 14 in the Basic Manual for detailed instructions.

· **Back Light:** Used to program the functioning of the remote's back light. See below for detailed instructions. · **Remote Reset:** Used to reset the remote to its factory defaults, deleting all user programming. See below for detailed instructions. · **Exit:** Exits the remote's Program Mode when you scroll to this option and press the OK Button.

13 ENGLISH ADVANCED FuNCTIONS · **Edit Title:** You may name the activity, e.g., All Power Off. When the activity is executed, its name will appear in the LCD Display. When this option is selected, the cursor will flash.

Type the title for the activity using the Alphanumeric Keys. Each Alphanumeric Key has the characters available in addition to its number printed above the key. Each press of the key scrolls through the available characters. To move to the next character, either press the N Button, or press the next desired Alphanumeric Key. Press the OK Button when you have finished. To execute an activity, press the Activity Button, then the Alphanumeric Key you selected as the command button in Step 4. If you selected the AVR Power On or Off Button in Step 4, you do not need to press the Activity Button first. To view the steps previously programmed for an activity without executing it: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed.

2. Use the KL Buttons to scroll to the Activity option, and press the OK Button. 3. Use the KL Buttons to select the Read Activity option, and press the OK Button. 4. Use the KL Buttons to select the command button, and press the OK Button. 5. Use the KL Buttons to scroll through the steps programmed into the activity. It is not possible to make any changes. When you have finished, press the OK Button or the Back/Exit Button to exit Program mode.

It isn't possible to "edit" a command within an activity. To delete the activity: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed. 2.

Use the KL Buttons to scroll to the Activity option, and press the OK Button. 3. Use the KL Buttons to select the Delete Activity option, and press the OK Button. 4. Use the KL Buttons to select the command button or title, and press the OK Button.

The activity, including any title you gave it, will be deleted. 4. Use the KL Buttons to scroll to the device in use, and press the OK Button. For example, to change channels using the cable or satellite setup box while using the remote to operate the TV, select the TV source in this step. 5. Use the KL Buttons to select the punch-through device (CBL/SAT in the example given in step 4), press the OK Button, and the Punch-Through programming will be saved. To undo punch-through programming, follow the same steps as above, but select the same Source in Steps 4 and 5. **NOTE:** The Volume and Mute controls are always dedicated to the AVR. **Back Light** The AVR remote is equipped with a back light to illuminate the keys and LCD Display to facilitate its use in a darkened home theater environment. To turn the back light on or off at any time, press the Back Light Button.

The back light's turn-on mode may be programmed: · **Normal:** The back light stays off unless the Back Light Button is pressed. · **On Full:** The back light will turn on any time a key is pressed. In both modes, the back light will remain on for 5 seconds after the last button press, and then turn off automatically. To program the remote's back light mode: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed. 2. Use the KL Buttons to scroll to the Back Light option, and press the OK Button. 3. Use the KL Buttons to select the Normal or On Full option, and press the OK Button to finish.

remote reset To reset the remote to its factory defaults, erasing all product codes, learned codes, activities and other user programming: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed. 2. Use the KL Buttons to scroll to the Remote Reset option, and press the OK Button.

The process may take a few minutes, depending on the amount of user programming requiring erasure. Please wait until the "Remote Reset Complete" message appears before pressing any keys. **punch-through programming** The punch-through feature allows you to operate one component, while setting certain groups of controls to operate another component. For example, while using the AVR controls for surround modes and other audio functions, you may operate the transport controls of your DVD player. Or while using the remote to control video functions on your TV, you may use your cable box to change channels.

To program punch-through control while operating any device: 1. Press and hold the AVR Settings Button for 3 seconds. The remote will enter Program mode, and its Main Menu will be displayed. 2. Use the KL Buttons to scroll to the Punch-Through option, and press the OK Button. 3. Use the KL Buttons to select either Channel or Transport control, and press the OK Button. **14 APPENDIX** appendix Default settings, worksheets, remote product codes **Table A1**

Recommended Source Component Connections Device Type Cable TV, satellite TV, HDTV or other device that delivers television programs DVD Audio/Video, SACD, Blu-ray Disc, HD-DVD player Media Server, including Harman Kardon DMC 1000 TV Video game console Any audio or video device, e.g., CD player, camcorder, cassette deck Recorder iPod AVR 760/AVR 660 Source CBL/SAT Digital Audio Connection HDMI 2 Analog Audio Connection Analog 1 Video Connections HDMI 2 DVD Media Server TV Game AUX HDMI 1 HDMI 4 Optical 1 HDMI 3 Coax Front Analog 2 Analog 5 Analog 3 Analog 4 Analog Front HDMI 1 HDMI 4 Component 1* HDMI 3 Composite Front (not used for audio-only devices) Composite OR S-Video 2 input and output The Bridge II for photo- and video-capable iPod models ENGLISH Source D The Bridge II Coaxial 2 input and Coaxial Output None Analog 4 inputs and outputs The Bridge II *Make this connection only when using the TV source for a non-display device.

Do not connect your television's or video display's video output to the AVR at any time. **NOTE:** Additional components may be connected to available audio and video inputs and assigned to Sources A, B, C and D. A USB drive may be plugged into the front-panel USB Port. For access to content on network computers and other devices, and to enjoy Internet Radio, connect the Network Jack to a home-network router.



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See page 12 for more information. 15 APPENDIX Table A2 Source Setting Defaults Cable/Sat Surround Modes (Auto Select) Video Input Audio Input Resolution to Display* Audio Auto Polling Zone 2 Audio Zone 2 Video Trigger 2 Dolby Volume Record Out Logic 7 Movie DVD Logic 7 Movie Media Server Logic 7 Music Radio Logic 7 Movie TV Logic 7 Movie Game Logic 7 Movie AUX Logic 7 Music The Bridge Logic 7 Music HDMI 2 HDMI 2 576i/480i Off Analog 1 Composite Video 1 On Medium Analog HDMI 1 HDMI 1 576i/480i Off Analog 2 Composite Video 2 On Low Analog HDMI 4 HDMI 4 576i/480i Off Analog 5 Composite Video 3 On Medium Analog N/A N/A 576i/480i N/A Radio N/A On Medium Analog Component 1 Optical 1 576i/480i Off Analog 3 Composite Video 2 On Medium Analog HDMI 3 HDMI 3 576i/480i Off Analog 4 Composite Video 3 On Medium Analog Composite Front Coaxial Front 576i/480i Off Analog Front Composite Video Front On Low Analog The Bridge II The Bridge II 576i/480i N/A The Bridge II The Bridge II On Medium Analog * Video output resolution may vary for HDMI connections. Table A2 Source Setting Defaults continued USB Surround Modes (Auto Select) Video Input Audio Input Resolution to Display Audio Auto Polling Zone 2 Audio Zone 2 Video Trigger 2 Dolby Volume Record Out Logic 7 Movie USB USB 576i/480i N/A USB N/A On Medium Analog Internet Radio Logic 7 Music Internet Radio N/A 576i/480i N/A Internet Radio N/A On Medium Analog Network Logic 7 Music Network Network 576i/480i N/A Network N/A On Medium Analog Source A Logic 7 Movie Component Video 2 Optical 2 576i/480i Off Analog 1 Composite Video 1 On Medium Analog Source B Logic 7 Movie Component Video 3 Optical 3 576i/480i Off Analog 2 Composite Video 2 On Medium Analog Source C Logic 7 Movie Composite Video 1 Analog 1 576i/480i Off Analog 3 Composite Video 3 On Medium Analog Source D Logic 7 Movie Composite Video 2 Coaxial 2 576i/480i Off Analog 4 Composite Video Front On Medium Analog 16 APPENDIX Table A3 Speaker/Channel Setting Defaults All Digital and 2-Chan- 6-/8-Channel Analog nel Analog Audio Inputs Audio Inputs* Left/Right Speakers Center Speaker Left/Right Surround Speakers Left/Right Surround Back Speakers Subwoofer 1 Subwoofer 2 Left/Right Speakers Crossover Center Speaker Crossover Left/Right Surround Speakers Crossover Left/Right Surround Back Speakers Crossover Subwoofer Mode Subwoofer 1 Size Subwoofer 2 Size Front Left Level Center Level Front Right Level Surround Right Level Surround Back Right Level Surround Back Left Level Surround Left Level Sub Level ON ON ON OFF ON ON 100Hz 100Hz 100Hz 100Hz LFE 10 inch/25 cm 10 inch/25 cm 0dB 0dB 0dB 0dB 0dB 0dB 0dB 0dB ON ON ON OFF ON Large* Large* Large* Large* LFE* ON OFF 0dB 0dB 0dB 0dB 0dB 0dB ENGLISH Your Delay Settings Position 1 (AVR 760, AVR 660) Your Delay Settings Position 2 (AVR 760) 17 ON Your Settings Position 1 (AVR 760, AVR 660) Your Settings Position 2 (AVR 760) * Note: When the Tone Mode setting is Off, the 6-/8-Channel Inputs are "direct" inputs whose signals are passed directly to the volume control without any bass management processing. The speakers remain full-range and cannot be adjusted. When the Tone Mode setting is On, the defaults are the same as for the other audio inputs. The settings are global for the remaining audio inputs. Table A4 Delay Setting Defaults Speaker Position Front Left Center Front Right Surround Right Surround Left Surround Back Right Surround Back Left Subwoofer 1 Subwoofer 2 Distance From Speaker to Listening Position 4 meter 4 meter 4 meter 3,3 meter 3,3 meter 3,3 meter 3,3 meter 4 meter 4 meter APPENDIX Table A5 Source Settings Cable/Sat Device Type Surround Modes Video Input Audio Input Resolution to Display Adjust Lip Sync Change Name Audio Auto Polling Zone 2 Audio Zone 2 Video Trigger 2 Dolby Volume Record Out N/A N/A The Bridge II The Bridge II The Bridge II DVD Media Server Radio TV Game AUX The Bridge Table A5 Source Settings continued USB Device Type Surround Modes Video Input Audio Input Resolution to Display Adjust Lip Sync Change Name Audio Auto Polling Zone 2 Audio Zone 2 Video Trigger 2 Dolby Volume Record Out N/A USB N/A N/A Internet Radio N/A N/A Network N/A USB USB N/A Internet Radio Network Network USB Drive Internet Radio N/A Network Source A Source B Source C Source D Table A6 Audio Effects Settings Default Dolby Volume Tone Control Treble Bass LFE Trim EQ Speaker Setup See Source Off 0dB 0dB 0dB On Position 1 Cable/Sat DVD Media Server Radio TV Game AUX The Bridge 18 APPENDIX Table A6 Audio Effects Settings continued USB Dolby Volume Tone Control Treble Bass LFE Trim Speaker Setup ENGLISH Default Video Mode Brightness* Contrast* Color* Sharpness* Picture Adjust Overscan Noise Reduction** MPEG Noise Reduction** Cross Color Suppressor** Flesh Tone Enhancement** Black Level** Deinterlacing** Film Mode Detect** Off 50 50 50 50 Auto Fit On Low Low On Off Off On 3:2 Cable/Sat DVD Media Server Radio TV Game AUX The Bridge USB Video Mode Brightness* Contrast* Color* Sharpness* Picture Adjust Overscan Noise Reduction** MPEG Noise Reduction** Cross Color Suppressor** Flesh Tone Enhancement** Black Level** Deinterlacing** Film Mode Detect** * Note: These settings are only available when the Video Mode is set to Custom. ** Note: These settings are only displayed when Advanced Video Settings is selected. Internet Radio Network Source A Source B Source C Source D EQ Table A7 Video Modes Settings Table A7 Video Modes Settings continued Internet Radio Network Source A Source B Source C Source D 19 APPENDIX Table A8 Surround Modes Default Auto Select Logic 7 Movie or native digital format Dolby Virtual Speaker Reference 5 CH Stereo Logic 7 Movie Logic 7 Music Logic 7 Game 0 0 Off Cable/Sat DVD Media Server Radio TV Game AUX The Bridge Virtual Surround Stereo Movie Music Game Center Width* Dimension* Panorama* Table A8 Surround Modes continued USB Auto Select Virtual Surround Stereo Movie Music Game Center Width* Dimension* Panorama* * Note: These settings are only available when Dolby Pro Logic II or IIX Music mode has been selected. Access these settings by selecting the Edit option. Internet Radio Network Source A Source B Source C Source D Table A9 Remote Control Codes Source Input Cable/Sat DVD Media Server TV Game AUX Source A (Red Soft Key) Source B (Green Soft Key) Source C (Yellow Soft Key) Source D (Blue Soft Key) Device Type (if changed) Product Brand and Code Number 20 APPENDIX Table A10 System Settings Feature Front-Panel Dimmer Volume Units Volume Default Volume Default Level Unit of Measure Language HDMI Audio to TV Dolby Volume Calibration Menu Transparency Volume/Status Messages Menus Setup and Slide-In Menus Screen Saver Software Version Default On 100% dB Off 25dB Feet Off 0dB Medium 3 seconds 1 minute 15 minutes 10 minutes Check your product ENGLISH Your Settings Your Settings 21 English Your Settings Table A11 Network Settings Setting ID # Network Settings IP Address Subnet Mask Gateway Primary DNS Secondary DNS Proxy Address Proxy Port Table A12 Zone 2 Settings Source Input Status Source Volume Surround Back Amps Carrier Out Default Off FM Radio 25dB Main Room Zone 2 APPENDIX Table A13 Surround Modes Surround Mode Dolby Digital Description Provides up to five separate main audio channels and a dedicated lowfrequency effects (LFE) channel.



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Incoming Bitstream or Signal · Dolby Digital 1/0/0 or .1, 2/0/0 or .1, 3/0/0 or .1, 2/1/0 or .1, 2/2/0 or .1, 3/2/0 or .1 · Dolby Digital EX (played as 5.1) · Dolby Digital Plus decoded and delivered via coax or optical connection · Dolby Digital EX · Dolby Digital 2/2/0 or .1

1, 3/2/0 or .1 · Dolby Digital Plus via HDMI connection (source device decodes to Dolby Digital when a coax or optical connection is used) Dolby Digital EX An expansion of Dolby Digital 5.1 that adds a surround back channel which may be played through one or two surround back speakers. May be manually selected when a non-EX Dolby Digital stream is detected. An enhanced version of Dolby Digital encoded more efficiently, Dolby Digital Plus has the capacity for additional discrete channels and for streaming audio from the Internet, all with enhanced audio quality. Source material may be delivered via an HDMI connection, or decoded to Dolby Digital or PCM and transmitted via S/P-DIF coaxial or optical digital audio. Dolby Digital Plus Dolby TrueHD Dolby TrueHD is an expansion of MLP Lossless™ audio, the same format · Blu-ray Disc or HD-DVD encoded with Dolby TrueHD, delivered via HDMI used on DVD Audio discs. Dolby TrueHD adds the features found in Dolby Digital, such as night mode settings, while delivering fully lossless audio that is a true reproduction of the studio master recording. Delivers a 2-channel downmix of Dolby Digital materials.

· Dolby Digital 1/0/0 or .1, 2/0/0 or .1, 3/0/0 or .1, 2/1/0 or .1, 2/2/0 or .1

1, 3/2/0 or .1 · Dolby Digital EX See below Dolby Digital Stereo Dolby Pro Logic II Mode Group Dolby Pro Logic II Movie Analog decoder that derives five full-range, discrete main audio channels from matrix surround-encoded or 2-channel analog sources. Four variants are available. Variant of Dolby Pro Logic II that is optimized for movie and television programs. Dolby Digital 2.0 or 2.1 Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz, 96kHz) Dolby Digital 2.0 or 2.1

1 Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz, 96kHz) Dolby Digital 2.0 or 2.1 Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz, 96kHz) Dolby Digital 2.0 or 2.1 Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz, 96kHz) Dolby Pro Logic II Music Variant of Dolby Pro Logic II that is optimized for music selections. Allows adjustment of sound field presentation in three dimensions: · Center Width (adjusts width of vocal soundstage) · Dimension (adjusts depth of soundstage) · Panorama (adjusts wraparound surround effect) Dolby Pro Logic II Game Variant of Dolby Pro Logic II that emphasizes use of the surround channels and subwoofer for total immersion in the video gaming experience. Original version of Dolby Pro Logic that steered a mono signal containing information below 7kHz to the surround channels.

Dolby Pro Logic 22 APPENDIX Surround Mode Dolby Pro Logic IIx Mode Group Description An expansion of Dolby Pro Logic II that adds a surround back channel which may be played through one or two surround back speakers. The Dolby Pro Logic IIx modes may be selected not only with Dolby Digital bitstreams, but thanks to the AVR 760/AVR 660's post-processor, they may also be used with some DTS bitstreams to add a surround back channel to 5.1 modes. Incoming Bitstream or Signal See below Dolby Pro Logic IIx Movie Dolby Pro Logic IIx Music This mode is similar to Dolby Pro Logic II Music, including the availability of center width, dimension and panorama adjustments. Dolby Pro Logic IIx Music adds a surround back channel.

This mode is similar to Dolby Pro Logic II Game, with the added benefit of a surround back channel. Dolby Digital 2/0/0 or .1, 2/2/0 or .1, 3/2/0 or .1, EX Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz, 96kHz) Dolby Digital 2/0/0 or .1 Analog (2-channel) Tuner PCM (32kHz, 44.1kHz, 48kHz) Dolby Pro Logic IIx Game Dolby Virtual Speaker Mode Group Dolby Virtual Speaker Reference Simulates 5.1 channels when only two speakers are present, or a more enveloping sound field is desired. When only two main speakers are present, the Reference mode virtualizes a full surround presentation with accurate localization. See below · Dolby Digital (uses only two-speaker mode when signal does not contain center channel information) · Analog (2-channel) · Tuner · PCM (32kHz, 44.1kHz, 48kHz)

1kHz or 48kHz) · Dolby Digital (uses only two-speaker mode when signal does not contain center channel information) · Analog (2-channel) · Tuner · PCM (32kHz, 44.1kHz or 48kHz) · DTS 1/0/0 or .1, 2/0/0 or .1, 3/0/0 or .1, 3/1/0 or .1, 2/2/0 or .1, 3/2/0 or .1 · DTS-ES Matrix (played as 5.1) · DTS-ES Discrete (played as 5.1)

1) Dolby Virtual Speaker Wide When only two main speakers are present, the Reference mode virtualizes a full surround presentation with accurate localization. DTS Digital Using a different encoding/decoding method than Dolby Digital, it also provides up to five discrete main channels, plus an LFE channel. DTS-HD · Blu-ray Disc or HD-DVD discs encoded with DTS-HD DTS-HD is a new high-definition audio format that complements the modes, delivered via HDMI high-definition video found on Blu-ray Disc and HD-DVD discs. It is transmitted using a DTS core with high-resolution extensions. @@@@DTS-ES Discrete is another Extended Surround mode that adds a surround back channel, but this information is encoded discretely on the disc, and is not derived from information contained in the surround channels.

· Blu-ray Disc or HD-DVD discs encoded with DTS-HD Master Audio technology, delivered via HDMI · DTS-ES Matrix DTS-HD Master Audio DTS-ES Matrix DTS-ES Discrete · DTS-ES Discrete 23 ENGLISH This mode is similar to Dolby Pro Logic II Movie, with an added surround · Dolby Digital 2/0/0 or .1, 2/2/0 or .1, 3/2/0 or .1, EX back channel. · Analog (2-channel) · Tuner · PCM (32kHz, 44.1kHz, 48kHz, 96kHz) APPENDIX Surround Mode DTS Stereo Description Delivers a 2-channel downmix of DTS Digital materials, or presents a matrix-encoded surround presentation. Incoming Bitstream or Signal · DTS 1/0/0

0 or .1, 2/0/0 or .1, 3/0/0 or .1, 3/1/0 or .1, 2/2/0 or .1, 3/2/0

0 or .1 · DTS 96/24 · DTS-ES Matrix · DTS-ES Discrete DTS Neo:6 Mode Group DTS Neo:6 Cinema DTS Neo:6 analog processing is available with DTS and DTS 96/24 signals See below and 2-channel analog or PCM signals to create a 3-, 5- or 6-channel presentation. @@@@Three variants are available. Especially suited to 2-channel sources containing Dolby Surround or matrix encoding, Logic 7 Movie mode increases center channel intelligibility.



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