



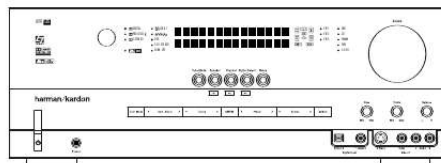
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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 135. You'll find the answers to all your questions on the HARMAN KARDON AVR 135 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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AVR 135
AUDIO/VIDEO RECEIVER
OWNER'S MANUAL



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Manual abstract:

@@@@@ Designed to provide all the excitement and detail of movie soundtracks and every nuance of musical selections, the AVR 135 accomplishes its mission by harnessing advanced technologies usually found only in higher-priced receivers. The AVR 135 has been engineered so that it is easy to take advantage of all the power of its digital technology. 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 135 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 135 is versatile and multifeatured, incorporating a wide range of listening options. In addition to Dolby* Digital and DTS® decoding for digital sources, a broad choice of Matrix surround-encoded or Stereo surround modes are available for use with sources such as CD, VCR, TV broadcasts and the AVR 135's own FM/AM tuner. Along with Dolby Digital EX, Dolby Pro Logic* II, DTS Neo:6®, Dolby 3 Stereo, and Hall and Theater modes, the AVR 135 offers Harman International's exclusive Logic 7® processing in both 5.1 and 7.

I versions to create a wider, more enveloping field environment and more defined fly-overs and pans. Another exclusive is VMaX®, which uses proprietary processing to create an open, spacious sound field even when only two front speakers are available. In addition to providing a wide range of listening options, the AVR 135 is easy to configure so that it provides the best results with your speakers and specific listening-room environment. On-screen menus make it simple to enter settings for speaker configurations and bass management. For the ultimate in flexibility, the AVR 135 features connections for four video devices, all with both composite and S-video inputs.

Two additional audio inputs are available, and six digital inputs make the AVR 135 capable of handling all the latest digital audio sources. For compatibility with the latest HDTV video sources and progressive scan DVD players, the AVR 135 also features two-input, wide-bandwidth, low-crosstalk component video switching. The front panel offers coax and optical digital inputs for direct connection to digital recorders. A video recording output, preamp-out and a color-coded eight-channel input, with complete digital bass management, make the AVR 135 virtually future-proof, with everything needed to accommodate tomorrow's new formats right onboard. The AVR 135'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 135 is the perfect combination of the latest in digital audio technology, a quiet yet powerful analog amplifier in an elegant, easy-to-use package. I A wide range of digital and matrix surround modes, including Dolby® Digital, Dolby Digital EX, Dolby Pro Logic® II, DTS®, DTS-ES® Discrete and Matrix, and DTS Neo:6® I Six channels of high-current amplification I Harman Kardon's exclusive Logic 7® processing, available for the first time with both 7.1 and 5.1 processing in a variety of modes, and two modes of VMaX® I High-bandwidth, HDTV-compatible component video switching I Discrete front-panel coaxial and optical digital inputs for easy connection to portable digital devices and video game consoles I Extensive bass management options, including three separate crossover groupings I On-screen menu and display system For Canadian model This class B digital apparatus complies with Canadian ICES-003.

For models having a power cord with a polarized plug: **CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert. *Modèle pour les Canadien Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Sur les modèles dont la fiche est polarisée: ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.*

INTRODUCTION 3 SAFETY INFORMATION Important Safety Information Verify Line Voltage Before Use Your AVR 135 has been designed for use with 120-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 attached to 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 guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center.

CATV or Antenna Grounding If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode. **NOTE TO CATV SYSTEM INSTALLER:** This reminder is provided to call the CATV (Cable TV) system installer's attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Installation Location I To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface.

When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product.



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I Make certain that proper space is provided both above and below the unit for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the cabinet. Under some circumstances a fan may be required. I Do not place the unit directly on a carpeted surface.

lation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: I Reorient or relocate the receiving antenna. I Increase the separation between the equipment and receiver. I Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. I Consult the dealer or an experienced radio/TV technician for help. I Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment. I Avoid moist or humid locations. I Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them. I Due to the weight of the AVR 135 and the heat generated by the amplifiers, there is the remote possibility that the rubber padding on the bottom of the unit's feet may leave marks on certain wood or veneer materials. Use caution when placing the unit on soft woods or other materials that may be damaged by heat or heavy objects.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation. NOTE: Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment. Unpacking The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the unit ever need repair. To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag. If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable.

Please respect the environment and discard those materials at a local recycling center. It is important that you remove the protective plastic film from the front-panel lens. Leaving the film in place will affect the performance of your remote control. Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, and only after unplugging the AC power cord, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water.

Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit. Moving the Unit Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet.

Important Information for $\bar{\cdot}$, press the Surround Mode Selector 8 to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround Mode Selector 8 to choose from the various mode options. FRONT-PANEL CONTROLS 5 FRONT-PANEL CONTROLS 8 Surround Mode Selector: Press this button to select from among the available surround mode options for the mode group selected. The specific modes will vary based on the number of speakers available, the mode group and if the input source is digital or analog. For example, press the Surround Mode Group Selector 7 to select a main mode grouping such as Dolby or Logic 7, and then press this button to see the specific mode choices available. For more information on mode selection, see page 22. 9 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When the tuner is in the Manual mode, each tap will increase or decrease the frequency by one increment. When the tuner receives a strong enough signal for adequate reception, MANUAL TUNED will appear in the on-screen display and the Lower Display Line $\bar{\cdot}$. When the tuner is the Auto mode, press the button once, and the tuner will scan for a station with acceptable signal strength.

When the next station with a strong signal is tuned the scan will stop and the on-screen display and Lower Display Line $\bar{\cdot}$ will indicate AUTO TUNED. When an FM Stereo station is tuned, the display will read AUTO ST TUNED. To switch back and forth between the Auto and Manual tuning modes, press the Tuner Mode Selector &.) </> Buttons: When configuring the AVR 135's settings, use these buttons to select from the available choices. ! Tuner Band Selector:

Press this button to turn the AVR on and to select the Tuner as the input. Press it again to switch between the AM and FM frequency bands. (See page 26 for more information on the tuner.) @ Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting into the AVR 135's memory. # Digital Input Selector: Press this button to select one of the digital inputs or the analog input for any source. (See pages 2326 for more information on digital audio.

) \$ Preset Stations Selector: Press this button to scroll up or down through the list of stations that have been entered into the preset memory. (See page 27 for more information on tuner presets.) % Delay Adjust Selector: Press this button to begin the steps required to enter delay settings. (See pages 1920 for more information on delay times.) ^ Input Source Selector: Press this button to change the input by scrolling up or down through the list of Input Indicators i.

& Tuner Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that the AUTO appears in the Lower Display Line $\bar{\cdot}$, the tuner will search for the next station with an acceptable signal when the Tuning Selector 9u is pressed. When the button is pressed so that MANUAL appears in the Lower Display Line $\bar{\cdot}$, each press of the Tuning Selector 9u will increase the frequency. This button may also be used to switch between Stereo and Mono modes for FM radio reception. When weak reception is encountered, press the button so that MANUAL appears in the Lower Display Line $\bar{\cdot}$ and on the on-screen display to switch to Mono reception.



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Press it again to switch back to Stereo mode. (See page 26 for more information on using the tuner.) * Optical 3 Digital Audio Input: Connect the optical digital audio output of an audio or video product to this jack. When the input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance. (Coaxial 3 Digital Audio Input: This jack is used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital audio jack. Ó Video 3 Video Input Jacks: These jacks may be used for temporary connection to the composite or S-video output of video games, camcorders or other portable video products. You may make a connection to either jack at any time, but not to both simultaneously. Ô Video 3 Audio Input Jacks: These audio jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. Bass Control: Turn this control to modify the lowfrequency output of the left/right channels by as much as ±10dB. Ò Balance Control: Turn this control to change the relative volume for the front left/right channels.

NOTE: For proper operation of the surround modes this control should be at the midpoint or "12 o'clock" position. Ú Treble Control: Turn this control to modify the high frequency output of the left/right channels by as much as ±10dB. Û Channel Adjust Selector: Press this button to begin the process of trimming the channel output levels using an external audio source. (For more information on output level trim adjustment, see page 27.) Ü Volume Control: Turn this knob clockwise to 48 46 44 42 increase the volume, counterclockwise to decrease the volume. If 35 AVR 135 is muted, adjusting the the 37 39 41 37 41 47 34 36 38 will automatically release 51 40 Volume Control Û the unit from the 26 25 condition. 36 40 46 50 33 silenced 37 i Input 31 Indicators: The current selected source will 34 38 44 48 28 23 35 appear as 30 of these indicators. Note that when the one 43 33 22 34 unit is turned on, 29 entire list of available modes will the 29 30 21 33 42 32 light briefly, and then revert to normal operation with 28 31 20 32 31 only the active mode indicator illuminated. ^ Speaker/Channel Input Indicators: These indicators are multipurpose, indicating both the speaker type selected for each channel and 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 assigned that position. (See page 17 for more information on configuring speakers.) The letters inside each box displays the active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input.

For a digital source, 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 25 for more information on the Channel Indicators.) ~ Upper Display Line: Depending on the unit's status, a variety of messages will appear here. In normal operation, this line will show current input source and which analog or digital input is in use.

When the tuner is the input, this line will identify the station as AM or FM and show the frequency and preset number, if any. ˘ Lower Display Line: Depending on the unit's status, a variety of messages will appear here. In normal operation, the current surround mode will show here. Surround Mode Indicators: The current selected surround mode will appear as one of these indicators. Note that when the unit is turned on, the entire list of available modes will light briefly, and then revert to normal operation with only the active mode indicator illuminated. ˙ Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it. 32 27 24 36 35 39 45 49 49 47 45 43 6 FRONT-PANEL CONTROLS REAR-PANEL CONNECTIONS 31 j k i h g f e d b · c a ° fl fi > < ; TM £ ¢ (100W, 1A MAX) 135 (50W, 0.5A MAX) § ¶ · ¸ / ˘ NOTE: To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harman.com.

com. j FM Antenna Jack TM CD Audio Inputs £ Tape Outputs ¢ Tape Inputs Subwoofer Output § Front Speaker Outputs ¶ Surround Back Speaker Outputs · Surround Speaker Outputs ¸ Center Speaker Outputs , Component Video Monitor Outputs / Video 2 Component Video Inputs NOTE: To assist in making the correct connections for multichannel input, output and speaker connections, all connection jacks and terminals are colorcoded in conformance with the CEA standards as follows: Front Left: White ˘ DVD Component Video Inputs < AC Power Cord > Switched AC Accessory Outlet fi Unswitched AC Accessory Outlet fl Optical Digital Audio Output Coaxial Digital Audio Output ° S-Video Monitor Output · Coaxial Digital Audio Inputs a DVD S-Video Input b Video 1 S-Video Input c Optical Digital Audio Inputs Front Right: Center: Surround Left: Surround Right: Surround Back Left: Surround Back Right: Red Green Blue Gray Brown Tan 49 48 35 34 33 32 31 30 29 28 47 45 46 44 37 39 36 38 26 27 28 29 30 31 25 24 23 22 21 20 43 42 41 40 37 36 35 34 33 32 d Video 1 S-Video Output e Video 2 S-Video Input f 6/8-Channel Direct Inputs 37 41 g Video 47 51 Output Monitor 36 40 46 50 h DVD Audio/Video Inputs 35 39 45 49 i Video 44 Audio/Video Inputs 34 38 1 48 j Video 43 Audio/Video Outputs 1 33 32 k Video 42 Audio/Video Inputs 2 31 AM Antenna Terminals Subwoofer: Coaxial Digital Audio: Composite Video: Component Video "Y": Component Video "Pr": Component Video "Pb": Purple Orange Yellow Green Red Blue j FM Antenna Jack: Connect the supplied indoor (or an optional external) FM antenna to this terminal. TM CD Audio Inputs: Connect these jacks to the analog audio output of a compact disc player or CD changer. £ Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. ¢ Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. Subwoofer Output: Connect this jack to the linelevel input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. § Front Speaker Outputs: Connect these outputs to the matching + or terminals on your left and right speakers.



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When making speaker connections always make certain to maintain correct polarity by connecting the color-coded (white for front left and red for front right) (+) terminals on the AVR 135 to the red (+) terminals on the speakers and the black (–) terminals on the AVR 135 to the black (–) terminals on the speakers. See page 12 for more information on speaker polarity.

¶ Surround Back Speaker Outputs: These speaker terminals are normally used to power the surround back speaker in a 6.1-channel system. Connect these outputs to the matching + and – terminals on your surround back channel speaker. In conformance with the CEA color-code specification, the brown terminal is the positive, or "+," terminal that should be connected to the red (+) terminal on the Surround Back speaker with older color-coding. Connect the black (–) terminal on the AVR to the matching black negative (–) terminal on the surround back speaker.

(See page 12 for more information on speaker polarity.) · **Surround Speaker Outputs:** Connect these outputs to the matching + and – terminals on your surround channel speakers. In conformance with the 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 12 for more information on speaker polarity.)

¶ Center Speaker Outputs: Connect these outputs to the matching + and – terminals on your center channel speaker. In conformance with the CEA color-code specification, the green terminal is the positive, or "+," terminal that should be connected to the red (+) terminal on speakers with the older color-coding. Connect the black (–) terminal on the AVR to the black (–) terminal on your speaker. (See page 12 for more information on speaker polarity.)

¶ Component Video Monitor Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the Component Video Inputs is selected, the signal will be sent to these jacks. **¶ Video 2 Component Video Inputs:** Connect the Y/Pr/Pb component video outputs of an HDTV set-top converter, satellite receiver or other video source device with component video outputs to these jacks. **¶ DVD Component Video Inputs:** Connect the Y/Pr/Pb component video outputs of a DVD player to these jacks. **< AC Power Cord:** Connect the AC power cord to a non-switched AC wall outlet. **> Switched AC Accessory Outlet:** These outlets may be used to power any device you wish to have turned on when the AVR 135 is turned on.

¶ Unswitched AC Accessory Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR 135 is on or off. **NOTE:** The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts.

¶ Optical Digital Audio Output: Connect this jack to the optical digital input connector on a CD-R/RW, MiniDisc or other digital recorder. **¶ Coaxial Digital Audio Output:** Connect this jack to the coaxial digital input of a CD-R/RW, MiniDisc or other digital recorder. **¶ S-Video Monitor Output:** If any of the input sources used in your system have S-video connections to the AVR, connect this jack to the S-video input 48 46 44 display. on your television, projector or other video35 37 39 h DVD Audio/Video Inputs: Connect the composite video and L/R analog audio outputs of a DVD player or other video source to these jacks. i Video 1

Audio/Video Inputs: Connect the composite or Video and L/R analog audio PLAY/OUT jacks of a VCR or other video source to these jacks. j Video 1 **Audio/Video Outputs:** Connect the composite or Video and L/R analog audio REC/IN jacks of a VCR or other video recording device such as a DVD recorder or PVR to these jacks. k Video46 **Audio/Video Inputs:** Connect the com36 40 2 50 35 39 Video positive or 45 49 and L/R analog audio PLAY/OUT jacks 34 38 of a cable44 48 box or other video source to television 33 43 these jacks.

z AM Antenna Terminals: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna. 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 135, you may use either a composite or S-video connection, but not both. 32 31 42 37 41 47 51 43 42 41 34 36 38 40 · **Coaxial Digital Audio Inputs:** Connect the coax 37 33 26 25 digital output from a DVD player, HDTV receiver, 27 24 36 32 LD 31 28 a player or CD player to these jacks. The signal may be 23 35 30 29 22 Dolby Digital signal, DTS signal or a standard PCM digital 34 29 30 source.

Do not connect the RF digital output of an 21 33 LD 28 31 20 32 player to these jacks. **a DVD S-Video Input:** Connect the S-video output of a DVD player or other video source to this jack. **b Video 1 S-Video Input:** If the product connected to the Video 1 Audio Inputs i has S-video capability, connect this jack to the PLAY/OUT S-video jack on that unit and then make certain that the S-Video Monitor Output ° is connected as described above. **c Optical Digital Audio Inputs:** Connect the optical digital output from a DVD player, HDTV receiver, LD player or CD player to these jacks. The signal may be a Dolby Digital signal, a DTS signal or a standard PCM digital source.

d Video 1 S-Video Output: If the product connected to the Video 1 Audio/Video Outputs j has S-video capability, connect this jack to the REC/IN S-video jack on that unit. **e Video 2 S-Video Input:** If the product connected to the Video 2 Audio/Video Inputs k has S-video capability, connect this jack to the PLAY/OUT S-video jack on that unit and then make certain that the S-Video Monitor Output ° is connected as described above. **f 6/8-Channel Direct Inputs:** These jacks are used for connection to source devices such as DVDAudio or SACD players with discrete analog outputs. Depending on the source device in use, all eight jacks may be used, though in many cases only connections to the front left/right, center, surround left/right and LFE (subwoofer input) jacks will be used for standard 5.1 audio signals. **g Video Monitor Output:** Connect this jack to the composite video input of a TV monitor or video projector to view the on-screen menus and the output of a standard video source.

8 REAR-PANEL CONNECTIONS REMOTE CONTROL FUNCTIONS **a Power Off Button** **b IR Transmitter Window** **c Program Indicator** **d Power On Button** **e Input Selectors** **f AVR Selector** **g AM/FM Tuner Select** **h Dim Button** **i Test Button** **j Sleep Button** **k DSP Surround Mode Selector** **l Night Mode** **m Channel Select Button** **n / / Buttons** **o < / > Buttons** **p Set Button** **q Digital Select** **r Numeric Keys** **s Tuner Mode** **t Direct Button** **u Tuning Up/Down** **v OSD Button** **w Dolby Mode Selector** **x DTS Digital Mode Selector** **y Logic 7 Mode Select Button** **z Skip Up/Down Buttons** **Transport Controls** **28 G Stereo Mode Select Button** **29 G DTS Neo:6 Mode Select** **30 G Macro Buttons** **31 G Disc Skip Button** **32 G Preset Up/Down** **33 G Clear Button** **34 G Memory Button** **35 G Delay/Prev.**



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Ch. 36 G Speaker Select 37 G Spare Button 38 G Volume Up/Down 39 G TV/Video Selector 40 G 6-Channel/8-Channel Direct Input 41 Mute G NOTE: · The function names shown here are each button's feature when used with the AVR 135. Most buttons have additional functions when used with other devices.

See pages 3334 for a list of these functions. · To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com. c ba POWER d e f g h i j k l m n o q n r p ON OFF MUTE 41 AVR VCR VID1 DVD CBL/SAT VID2 CD TV VID3 TAPE 40 DIM AM/FM 6/8 CH 39 SLEEP CH. SURR. TEST NIGHT T/V VOL. 38 37 36 o 35 GU I DE M E CH . SP K R NU SET T P RE 1 5 2 6 9 DIRECT 3 7 0 CLEAR 4 8 MEM s t u v V. CH TA LL DE AY.

TUN-M TUNING OSD D.SKIP I DIG EX I M1 M2 M3 DTS SUR M4 DOLBY SUR 34 33 32 31 30 29 PRESET DTS NEO:6 w y x z DOWN LOGIC 7 STEREO 28 SKIP UP `135 135 REMOTE CONTROL FUNCTIONS 9 REMOTE CONTROL FUNCTIONS IMPORTANT NOTE: The AVR 135's remote may be programmed to control up to seven devices, including the AVR 135. Before using the remote, it is important to remember to press the Input Selector Button e that corresponds to the unit you wish to operate. In addition, the AVR 135's remote is shipped from the factory to operate the AVR 135 and most Harman Kardon CD or DVD players and cassette decks. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote.

Before using the remote with other products, follow the instructions on page 30 to program the proper codes for the products in your system. It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Device Control Selectors. The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 135. (See pages 3134 for information about alternate functions for the remote's buttons.) a Power Off Button: Press this button to place the AVR 135 or a selected device in the Standby mode. Note that this will turn off the main room functions, but if the Multiroom system is activated, it will continue to function. b IR Transmitter Window: Point this window towards the AVR 135 when pressing buttons on the remote to make certain that infrared commands are properly received. c Program Indicator: This three-color indicator is used to guide you through the process of programming the remote. (See page 30 for information on programming the remote.) d Power On Button: Press this button to turn on the power to a device selected by pressing one of the Input Selectors e. e Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 135 is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the AVR 135. Finally, it will change the remote control so that it controls the device selected. After pressing one of these buttons you must press the AVR Selector Button f again to operate the AVR 135's functions with the remote.

f AVR Selector: Pressing this button will switch the remote so that it will operate the AVR 135's functions. If the AVR 135 is in the Standby mode, it will also turn the AVR 135 on. g AM/FM Tuner Select: Press this button to select the AVR 135's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands. h Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front panel display, or turns it off entirely. The first press of the button shows the default state, which is full brightness by indicating DIMMER FULL in the Lower Display Line ` . Press the button again within five seconds to reduce the brightness by 50%, as indicated by DIMMER HALF showing in the Lower Display Line ` . Press the button again within five seconds and the main display will go completely dark. Note that this setting is temporary, in that regardless of any changes, the display will always return to full brightness when the AVR is turned on. In addition, the Power Indicator 2 will always remain at full brightness regardless of the setting.

This is to remind you that the AVR is still turned on. i Test Button: Press this button to begin the sequence used to calibrate the AVR 135's output levels. (See page 20 for more information on calibrating the AVR 135.) j Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 135 will automatically go into the Standby mode.

Each press of the button changes the time until turn-off in the following order: l Night Mode: Press this button to activate the Night mode. This mode is available in specially encoded digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels. m Channel Select Button: This button is used to start the process of setting the AVR 135's output levels to an external source. Once this button is pressed, use the /■ Buttons n to select the channel being adjusted, then press the Set Button p, followed by the /■ Buttons n again, to change the level setting. (See pages 20 and 27 for more information.)

) n /■ Buttons: These multipurpose buttons are used to change or scroll through items in the onscreen menus, make configuration settings such as digital inputs or delay timing, or to select surround modes. When changing a setting, first press the button for the function or setting to be changed (e.g., press the DSP Surround Mode Selector k to select a sound field mode or the Digital Select Button q to change a digital input) and then press one of these buttons to scroll through the list of options or to increase or decrease a setting. The sections in this manual describing the individual features and functions contain specific information on using these buttons for each application. o </> Buttons: These buttons are used to change the menu selection or setting during some of the setup procedures for the AVR 135. p Set Button: This button is used to enter settings into the AVR 135's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. q Digital Select: Press this button to assign one of the digital inputs *(c to a source. (See pages 16 and 23 for more information on using digital inputs.)

) r Numeric Keys: These buttons serve as a 10button numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, Cable or SAT has been selected on the remote, or to select track numbers on a CD, DVD or LD player, depending on how the remote has been programmed.



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s Tuner Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that MANUAL appears in the Lower Display Line $\bar{\text{~}}$, pressing the Tuning Buttons u9 will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception. (See pages 2627 for more information.) This button is also used to change channels on your TV when the TV is selected. When the AVR 135 remote is being programmed with the codes to operate another device, this button is also used in the "Auto Search" process. (See page 30 for more information on programming the remote.) k DSP Surround Mode Selector: Press this button to cycle through the DSP, VMaX and Stereo surround modes such as Hall, Theater, VMaX Near and Far, and Surround Off.

This button is also used to tune channels when the TV is selected using the device Input Selector e. When the AVR 135 remote is being programmed with the codes of another device, this button is also used in the "Auto Search" process. (See page 30 for more information on programming the remote.) 10 REMOTE CONTROL FUNCTIONS REMOTE CONTROL FUNCTIONS 49 47 45 43 48 46 44 42 t Direct Button: Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button, simply press the proper Numeric Keys r to select a station.

(See page 26 for more information on the tuner.) u Tuning Up/Down: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the Tuner Mode Button s& has been pressed so that AUTO appears in the onscreen display and Lower Display Line $\bar{\text{~}}$, pressing and holding either of the buttons for three seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When MANUAL appears in the Lower Display Line $\bar{\text{~}}$, pressing these buttons will tune stations in single-step increments. (See page 26 for more information.)

v OSD Button: Press this button to activate the On-Screen Display (OSD) system used to set up or adjust the AVR 135's parameters. w Dolby Mode Selector: This button is used to select from among the available Dolby Surround processing modes. Each press of this button will select one of the Dolby Pro Logic II modes or Dolby 3 Stereo. When a Dolby Digital-encoded source is in use, the Dolby Digital mode may also be selected. (See page 24 for the available Dolby surround mode options.) x DTS Digital Mode Selector: When a DTS encoded digital source is selected, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to whether or not the source material contains DTS-ES 6.1 Discrete encoding. When a DTS source is not in use, this button has no function. (See page 24 for the available DTS Digital options.)

y Logic 7 Mode Select Button: Press this button to select from among the available Logic 7 surround modes. (See page 24 for the available Logic 7 options.) z Skip Up/Down Buttons: These buttons do not have a direct function with the AVR 135, but when used with a compatibly programmed CD or DVD 49 47 45 43 changer they 44 change to the previous disc in the 48 46 will 42 changer or carousel. 35 37 39 41 35 left/right stereo mode with no surround processing or 34 bass management, as opposed to other modes where 33 digital processing is used. When the button is pressed 32 so that SURROUND OFF appears in the Lower 31 Display Line $\bar{\text{~}}$, you may enjoy a two-channel pre- 30 49 47 the 43 sentation of 45 sound along with the benefits of bass 29 48 46 44 42 management.

Depending on whether your system is 28 35 37 39 or configured for 5.1/41 6.1/7.1 channels, the next press of the button 38 cause either 541 47 51 37 CH STEREO or 34 36 will 40 7 CH26 25 37 to appear, 40 the stereo signal 49 STEREO 36 and 46 50 33 will be 27 to all five (or 35 39 speaker 49 seven) 45 channels. 32 routed 24 36 49 48 47 (See page 24 for more information on stereo play 49 47 23 35 31 28 45 43 34 38 44 48 35 48 46 back modes.)

) 30 46 22 34 48 29 44 42 43 33 35 34 37 29 37 21 33 42 32 35 DTS Neo:6 Mode Select: Press this button to 33 30 39 41 34 36 49 47 28 31 Neo:6 select a DTS20 32 mode. These modes take a two- 32 31 41 47 51 37 34 36 38 40 33 26 channel stereo- or matrix surround-encoded source 46 36 40 46 50 48 31 33 26 25 37 32 27 and create a 45 five-, six- 35 seven-channel sound full 43 or 39 45 49 35 37 49 27 32 47 24 36 31 30 field. (See page 24 for the DTS Neo:6 options.) 34 36 28 48 46 23 35 31 28 44 42 34 38 44 48 30 29 49 47 45 29 33 26 30 Macro 22 34 Press these buttons to store or 28 43 35 37 39 41 29 Buttons: 33 29 30 48 46 44 recall a 36 21, which is a 32 41 42 51 32 27 preprogrammed sequence 29 "Macro" 40 47 37 34 30 38 33 28 35 for 31 of commands stored in the 31 40 (See page 32 37 39 remote. 46 50 31 28 28 31 20 32 36 33 26 25 37 more information on storing and 39 45 macros.)

) 36 38 34 35 recalling 49 30 29 32 27 24 36 31 Disc Skip Button: This button has no 48 29 25 34 38 44 33 26 30 direct 28 23 35 49 28 31 49 45 43 27 30 47 22 34 function for the AVR 135 but is most 43 used to 24 often 32 47 45 33 29 31 28 48 46 44 48 change 46 the next 33 in 32 CD or DVD player when 23 to 44 disc a 29 30 21 42 42 30 29 39 the remote is programmed for that type of device. 37 22 35 28 31 20 32 35 37 39 41 31 29 (See page 31 for more information on using the 36 21 34 37 41 47 51 30 38 34 36 38 40 28 remote with products other than 40 AVR 135.) 31 20 the 46 50 33 26 25 36 33 26 25 37 45 43 37 39

Button: This button has no direct function 44 Spare 41 42 for the 38 135. 37 41 47 51 36 AVR 39 41 40 36 40 26 25 37 41 47 46 50 38 43 37 40 these 45 Volume Up/Down: Press 51 buttons to raise 27 24 36 or lower the system 40 46 50 49 volume. 36 35 39 45 44 42 25 37 34 38 44 48 28 23 36 24 41 35 Selector: This 49 39 TV/Video 35 39 45 button does not have a 33 44 48 29 22 34 34 41 135, 43 23 35 direct function 37 the AVR 47 51 when used with a on 38 but 38 40 30 21 VCR, DVD or satellite receiver, pressing this 33 33 32 43 42 22 43 34 compatible 36 40 46 50 25 37 32 31 32 31 the button 36 switch between 45 output of the device 21 will 42 20 35 39 42 49 24 33 and the external video input.

48 31 20 41 35 34 38 44 23 32 41 47 51 Direct Input: Press 37 33 43 40 6-Channel/8-Channel 22 34 36 40 the 50 this button to select 46 device connected to the 32 42 21 37 33 6/8-Channel 39 45 49 f. (See page 22 for 35 Direct Inputs 43 31 36 32 20 more information.) 44 48 34 38 42 35 43 33 34 Mute: Press this button to momentarily silence 41 channel you wish to set up. Press the Set Button 32 42 30 21 33 p and then select another channel to configure. 31 31 20 32 When all adjustments have been completed, press the Set Button p twice to exit the settings and return 45 normal operation. (See page 17 for more 47 to 43 information.) 42 46 44 37 39 41 37 41 47 51 36 Speaker Select: Press this button to begin 38 40 36 40 46 50 the process 37 configuring the AVR 135's bass manof 26 25 agement system for 35 with the type of speakers use 39 45 49 27 24 36 used in your 35 system.



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Once the 44 48 been 34 38 button has 28 23 /⌘ pressed, use the /33 Buttons n to select the 43 29 22 34 `Transport Controls: 37 41 47 do not have These buttons 51 34 36 38 40 any functions for the AVR 135, but they may be 36 40 46 50 33 26 25 37 programmed for the forward/reverse play operation 35 39 45 49 32 27 24 36 of a wide variety of CD or 34 players, and 48 or DVD 38 44 audio 31 28 23 35 video cassette recorders. (See page 32 for more 30 29 22 34 43 33 information.) is pressed so that DSP SURR OFF appears in the Lower Display Line ~, the AVR will operate in a bypass mode with true, fully analog, two-channel 29 30 21 33 42 32 28 Stereo 20 32 31 31 Mode Select Button: When the button 47 37 34 36 38 40 36 40 46 incorrect 49 Clear Button: Press this button to clear 50 43 33 47 45 37 26 25 entries 46 24 36 remote to 39 45 49 radio 35 directly enter a 48 27 44 42 32 when using the station's frequency.

35 31 37 23 41 34 38 44 48 35 28 39 30 Memory Button: Press this button to enter a 43 33 41 47 51 37 34 36 22 34 29 38 40 29 26 21 37 32 40 46 radio station into the AVR 135's preset 42 50 First, memory. 36 33 30 25 33 28 31 20 32 tune the desired station, and then press this 49 35 31 39 45 button. 32 27 24 36 Two underline indicators will flash at the right side of 31 28 23 35 34 38 44 48 the Upper Display Line ~, and within five seconds 30 29 22 34 43 33 press the Numeric Keys r for the preset number 29 30 21 33 42 32 between 01 45 30 that you wish to assign to the 49 47 43 28 31 and 32 31 station. 46 20 42 for more information.) page 48 (See 44 26 35 Delay/Prev Ch.: Press this button to begin 37 39 41 the process for setting the 37 41 47 51 the delay times used by 34 36 38 40 AVR 135 when processing surround sound. After 36 40 46 50 33 26 25 37 pressing this button, the delay times are entered by 35 39 45 49 32 27 24 36 pressing the Set Button p and then using the 31 28 23 35 34 38 44 48 /⌘ Buttons n to change the setting. Press the 30 29 22 34 33 43 Set Button p again to complete the process. 29 30 21 33 32 42 (See page 19 for more information.) 28 31 20 32 31 33 the AVR 32 or TV 42 being controlled, depending on 135 set 37 41 47 51 40 which device has been selected.

When the AVR 135 31 40 46 50 32 36 37 35 39 45 49 32 32 Preset 24 36 When the tuner is 49 use, 27 24 remote is being programmed to operate another device, 36 27 Up/Down: 35 39 45 in 31 34 38 44 the 31 28 23 35 34 38 44 48 press these buttons to scroll through the stations 28 23 this button is pressed with 48 Input Selector Button 35 e to begin the programming process. (See page programmed 22 the AVR 33 memory.) When 29 22 34 135's 43 33 30 29 into 34 43 30 some source 21 43 such as CD players, VCRs and 21 30 for more information on programming the remote.) 49 47 45 33 29 30 devices, 42 32 42 29 30 32 33 cassette decks, are selected using the device Input 20 32 28 31 28 31 20 42 48 46 44 32 31 31 Selectors e, these buttons may function as 35 37 39 41 Chapter Step or Track Advance. 41 51 REMOTE CONTROL FUNCTIONS 11 INSTALLATION AND CONNECTIONS System Installation After unpacking the unit, locating it in a place with adequate ventilation 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.

IMPORTANT NOTE: For your personal safety and to avoid possible damage to your equipment and speakers, it is always a good practice to turn off and unplug the AVR and ALL source equipment from the AC output before making any audio or video system connections. Audio Equipment Connections We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals.

1. Connect the analog output of a CD player to the CD Audio Inputs TM. 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 it is distorted.
2. Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the Tape Input Jacks ç. Connect the analog Record/In jacks on the recorder to the Tape Output Jacks £ on the AVR 135.
3. Connect the 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 Audio Inputs c*(. We recommend connecting the coaxial digital audio output of your DVD player to the Coax 1 Digital Audio Input ~, since that digital input is assigned to the DVD source by default. 49 47 45 43 48 46 the 42 4. Connect 44 Coaxial or Optical Digital Audio 35 37 39 on Outputs f 41 the rear panel of the AVR 135 to the 34 36 38 input 37 41 on CD-R matching digital 40 connections 47 a 51 or MiniDisc 33 26 recorder. 25 37 36 40 46 50 32 27 24 36 35 39 45 49 31 28 23 35 34 Antenna 48 5. Assemble the AM Loop 38 44 supplied with the 30 29 22 tabs the 43 unit so that the 34 at 33 bottom of the antenna loop 29 into 21 33 snap 30 the holes in 32 base.

42 the Connect it to the AM 28 31 20 32 Antenna Terminals 31 . external roof antenna, an inside powered or wire-lead antenna or a connection from a cable TV system. If the antenna or connection uses 300-ohm twin-lead cable, you must use the 300-ohm-to-75-ohm adapter supplied with the unit to make the connection. 7. Connect the front, center, surround and surround back speaker outputs §¶.ª to the respective speakers. To ensure 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 multi-strand copper with a gauge of 14 or smaller. Remember that in specifying cable, the lower the number, the thicker the cable.

Cable with a gauge of 16 may be used for short runs of less than 10 feet. We do not recommend that you use cables with an AWG equivalent of 18 or higher, due to the power loss and degradation in performance that will occur. Cables that are run inside walls should have the appropriate markings to indicate listing with UL, CSA or other 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 NEC and/or the applicable local building codes in your area. When connecting wires to the speakers, be certain to observe proper polarity.

Note that the positive (+) terminal of each speaker connection may carry a specific color code, as noted on page 7.



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However, many speakers 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 may vary from this configuration. To ensure 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 135. Note that it is not possible to use the AVR 135 in a 7.1-channel configuration. Any source information that the AVR receives or derives for the surround back left and right channels, e.g. through the 6/8Channel Direct Inputs f or during 7-channel Stereo processing, is combined and outputted to the single-channel Surround Back Speaker Outputs ¶. 8. Connections to a subwoofer are normally made via a line-level audio connection from the Subwoofer Output 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 multichannel audio source with 5.1, 6.1, 7.1 outputs such as an external digital processor/decoder, DVD-Audio or SACD player is used, connect the outputs of that device to the 6/8-Channel Direct Inputs f. 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. 1.

Connect a VCR's, DVD recorder's, personal video recorder's or other video source's audio and video Play/Out jacks to the Video 1 Audio/Video and/or S-Video Input Jacks bi on the rear panel. The Audio and Video Record/In jacks on the recorder should be connected to the Video 1 Audio/Video and/or S-Video Output Jacks dj on the AVR 135. Although any video device may be connected to these jacks, we recommend connecting your video recorder so that you may take advantage of the fact that the remote control is preprogrammed with video recorder product codes for the Video 1 device. 2. Connect the analog audio and video outputs of a satellite receiver, cable TV converter, television set or any other video source to the Video 2 Audio/Video and S-Video Input Jacks ek. Although any video device may be connected to these jacks, we recommend connecting your cable TV converter or satellite receiver so that you may take advantage of the fact that the remote control is preprogrammed with the product codes of these device types for the Video 2 device. If your device is capable of switching compo- 6. Connect the supplied FM antenna to the FM (75ohm) Connection j. The FM antenna may be an 12 INSTALLATION AND CONNECTIONS INSTALLATION AND CONNECTIONS nent video, we particularly recommend connecting it to the Video 2 Audio Input Jacks k, as the Video 2 Component Video inputs / are assigned to the Video 2 device. 3.

Connect the analog audio and video outputs of a television or other video device to the front-panel Video 3 Audio and Video Input Jacks ÓÔ. Although any video or audio device may be connected to these jacks, we recommend connecting your television so that you may take advantage of the fact that the remote control is preprogrammed with television product codes for the Video 3 device. Important: If you are only using the television as a display device (i.e., if you receive your television programs through a cable box or satellite receiver), do not connect the TV's outputs to the Video 3 Audio and Video Input Jacks ÓÔ, or to any other inputs on the AVR 135. 4. Connect the analog audio and video outputs of a DVD or laser disc player to the DVD Audio/Video and S-Video Inputs ah. 5. Connect the digital audio outputs of a DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs -c*(. 6.

Connect the Video and/or S-Video Monitor Output °g jacks on the receiver to the composite or S-video input of your television monitor or video projector. 7.

If your DVD player and monitor both have component video connections, connect the component outputs of the DVD player to the DVD Component Video Inputs ¶. Even when component video connections are used, the audio connections should still be made to either the analog DVD Audio Inputs h or any of the Optical or Coaxial Digital Input Jacks -c*(. 8. If another device with component video outputs is available, connect it to the Video 2 Component Video Inputs /. The audio connections for this device should be made to either the Video 2 Audio Inputs k or any of the Optical or Coaxial Digital Input Jacks -c*(. 9. If the component video inputs are used, connect the Component Video Monitor Outputs , to the component video inputs of your TV, projector or display device. 10.

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 *(ÓÔ. A device connected here is selected as the Video 3 input, and the digital inputs must be assigned to the Video 3 input. (See page 16 for more information on input configuration.) Video Connection Notes: · When the component video jacks are used, the onscreen menus are not visible and you must switch to the standard composite or S-video input on your TV to view them. · The AVR 135 will accept either standard composite, S-video or Y/Pr/Pb component video signals.

However, it will not convert composite or S signals to component video. · When connecting a video source to the AVR 135, you may use either composite, component or S-video, but only one type of video may be connected for each device. · When more than one video format is used, it is necessary to make a separate connection from the AVR to your video display for each format. For example, if both composite and component sources are connected to the AVR 135, both the composite and component video monitor outputs °g must be connected to the appropriate inputs on your video display. AC Power Connections

This unit is equipped with two accessory AC outlets.

They may be used to power accessory devices, but they should not be used with high-current-draw equipment such as power amplifiers.



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The total power draw to each outlet may not exceed 100 watts. The Switched AC Accessory Outlet > will receive power only when the unit is on. 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 a Standby mode when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command. The Unswitched AC Accessory Outlet fi will receive power as long as the unit is plugged into a powered AC outlet. Once the AC Power Cord < is connected, you are almost ready to enjoy the AVR 135's incredible power and fidelity! **INSTALLATION AND CONNECTIONS 13 SYSTEM CONFIGURATION** When all audio, video and system connections have been made, there are a few configuration adjustments that must be made. A few minutes spent to correctly configure and calibrate the unit will greatly add to your listening experience. information is received, for example through the 6/8-Channel Direct Inputs f, or when deriving 7Channel Stereo or Logic 7/7.1 surround information, the AVR 135 combines the left and right surround back channel information and outputs it as a single surround back channel.

Subwoofers produce 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 six inches from a wall, or near the front corner of the room. Another method is to temporarily place the subwoofer at your normal listening position, 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. **Speaker Selection and Placement** The placement of speakers in a multichannel home theater system can have a noticeable impact on the quality of sound reproduced. No matter which type or brand of speakers is used, the same model or brand of speaker should be used for the left front, center and right front 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. **Speaker Placement** 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 front left and front right 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 24" above or below the tweeter in the center channel speaker. 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 left front and right front speakers slightly forward of the center channel speaker. If possible, adjust all 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, and sounds from all speakers appear to arrive at the listening position at the same time (without delay from the center speaker compared to the left and right speakers). When the AVR 135 is used in 5.1-channel operation, the preferred location for surround speakers is on the side walls of the room, no more than 10 degrees off axis from the listening position. In a 6.

1-channel system, both side surround speakers and a back surround speaker are required. The center of the speaker should face into the room. A) Front-channel speaker installation with direct-view TV sets or rear-screen projectors TV or Projection Screen Left Front Speaker Center Front Speaker Right Front Speaker System Setup No more than 6 feet when rear-mounted speakers are used Rear-Wall Mounting 5.1 6.1 5.1 B) Rear-wall speaker mounting using the positions marked "5.1" is an alternate location for 5.1 systems. When a 6.1 speaker configuration is used, the position marked "6.

1" should be used. The rear wall location may also be used in place of side-wall mounting in 5.1 systems when it is not practical to place the main surround speakers at the sides of the room. The rear surround speaker should be mounted as close as possible to the center of the rear wall for a "6.1" system. As with the side speakers, the rear surround speaker should be located so that the bottom of the cabinet is at least two feet higher than the listeners' ears. The speaker should be no more than six feet behind the rear of the seating area. If dipole-type speakers are used on either the side or rear walls of the room, please note that if there are arrows on the speakers they should face the front of the room for the side speakers, or toward the center of the wall for the rear speakers.

Important Note: It is not possible to configure the AVR 135 for 7.1-channel operation.

Do not connect more than one speaker to the Surround Back Speaker Outputs ¶, as doing so may damage your speakers, the AVR 135 or both. When 7.1-channel Once the speakers have been placed in the room and connected, the remaining steps in the setup process are to program the AVR 135's bass management system for the type of speakers used in your system, calibrate the output levels, and set the delay times used by the surround sound processor.

You are now ready to power up the AVR 135 to begin these final adjustments. 1.

Make certain that the AC power cord < is firmly inserted into an unswitched AC outlet. To maintain the unit's safety rating, DO NOT replace the power cord with one that has a lower current capacity. 2. Press the Main Power Switch 1 in until it latches and the word "OFF" on the top of the switch disappears inside the front panel. Note that the Power Indicator 2 will turn amber, indicating that the unit is in the Standby mode.

3. Remove the protective plastic film from the frontpanel lens. If left in place, the film will affect the performance of your remote control. 4. Install the three 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. 14

SYSTEM CONFIGURATION SYSTEM CONFIGURATION Making Configuration Adjustments The full-OSD system is available by pressing the OSD Button

v.



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