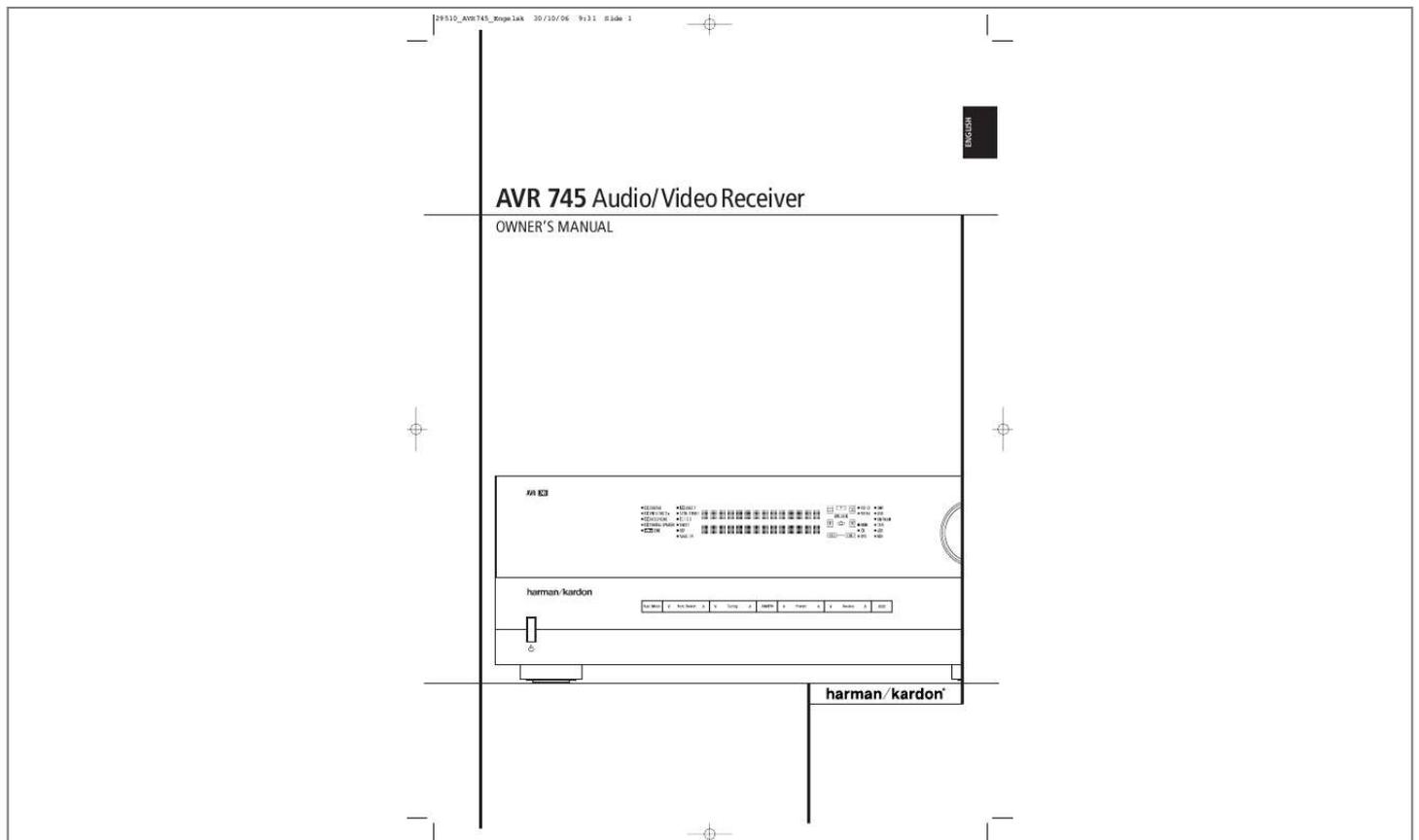




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 745. You'll find the answers to all your questions on the HARMAN KARDON AVR 745 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 745
User guide HARMAN KARDON AVR 745
Operating instructions HARMAN KARDON AVR 745
Instructions for use HARMAN KARDON AVR 745
Instruction manual HARMAN KARDON AVR 745



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Manual abstract:

The instructions shown for using the TC 30 remote are correct as of the date this manual was printed. They may change slightly from time to time when the TC 30's internal software is upgraded to add new features. 2 TABLE OF CONTENTS 29510_AVR745_Engelsk 30/10/06 9:31 Side 3 Introduction Thank you for choosing Harman Kardon! With the purchase of a Harman Kardon AVR 745 you are about to begin many years of listening enjoyment.

@@@A few minutes spent learning the functions of the various controls will enable you to take advantage of all the power the AVR is able to deliver. If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer. They are your best local sources of information. Description and Features The AVR 745 serves as the hub of your home entertainment system, providing a wide range of listening possibilities for almost any audio or video program source, whether it is the broadcast of a movie or sporting event in HDTV or a vintage mono or stereo recording. When playing digital audio sources from either the conventional optical and coaxial inputs, or through the HDMI 1.1 compliant connections, the AVR 745 decodes Dolby Digital, Dolby Digital EX, DTS and DTS-ES data streams. Two-channel stereo and matrix surround sources benefit from all current Dolby Pro Logic IIx modes and DTS Neo:6.

The latest version of our proprietary Logic 7® process is on-board to create a wider, more enveloping sound field and more defined surround channel positioning, regardless of the type of source material. Additional audio playback and processing options include a direct connection to compatible computer-based sources through a direct USB connection. The AVR 745 takes the "video" part of its name seriously. Along with two HDMI inputs and three 100MHz analog component video inputs, the AVR 745's video processing allows you to individually adjust the video processing parameters for each input, and then scale the output signal to 720p or 1080i to match the requirements of your specific video display. Thanks to award winning Faroudja® technology, your video sources never looked better.

Tying audio and video together, the AVR 745 provides A/V sync delay so that the lip sync errors commonly seen when digital video processing is used in a source, program or video display are eliminated. Coax and optical digital outputs are available for direct connection to digital recorders, and both the front panel analog audio/video and coaxial digital jacks may be switched to outputs for use with portable recorders a Harman Kardon exclusive. Two video recording outputs, preampout and a color-coded eight-channel input make the AVR virtually future-proof, with everything needed to accommodate tomorrow's new formats right on board. The AVR 745's flexibility and power extend beyond your main home theater or listening room. The AVR includes a sophisticated multizone control system that allows you to select one source for use in the main room and a different one (Audio and Video) in a second room. Complete control over volume is possible with a separate infrared control link. To make it easy to operate the AVR from a remote room, a separate "ZR 10" remote is included. Additional multiroom options include the option to assign two of the AVR's output channels to the multiroom system and the ability to link the AVR to innovative A-BUS® keypads for multiroom operation without the need for external amplifiers. The AVR 745'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 is the perfect combination of the latest in digital audio technology, a quiet yet powerful analog amplifier in an elegant, easy-to-use package. Dolby® Digital, Dolby Digital EX and Dolby Pro Logic® IIx Decoding, and the full suite of DTS® modes, including DTS-ES® 6.1 Discrete & Matrix and Neo:6® and DTS 96/24 Seven channels of high-current amplification with two channels assignable to either surround back or multiroom applications Harman Kardon's exclusive Logic 7® processing, along with a choice of Dolby Virtual Speaker processing for use when only two speakers are available Dolby Headphone to create spacious, open sound fields when using headphones USB connectivity for audio playback with compatible computers and quick system upgrades Two HDMITM 1.1 and three assignable high-bandwidth analog component inputs for compatibility with the latest high-definition video sources Harman Kardon's advanced EzSet/EQ II automatically configures speaker settings and sets room equalization for quick, easy and accurate system setup High-bandwidth, HDTV-compatible component video switching Front panel analog A/V inputs, switchable to outputs Front panel digital inputs and outputs On-screen menu and display system Extensive multiroom options, including a standard Zone II remote, assignable amplifier channels and A-BUS/READY capability for listening to a separate source in a remote zone® 6-Channel/8-Channel Direct Input and Preamp Outputs for Easy Expansion and Use with Future Audio Formats Extensive bass management options, including Quadruple Crossover Dual subwoofer outputs for 7.2 operation with improved low-frequency performance A/V Sync delay adjustable for each input delivers perfect lip sync with digital programs or video displays Harman Kardon's TC 30 activity-based remote with color LCD screen for total system control INTRODUCTION 3 ENGLISH 29510_AVR745_Engelsk 30/10/06 9:31 Side 4 Introduction / Safety Information Important Safety Information READ THIS BEFORE OPERATING YOUR UNIT.

Do not install this equipment in a confined space such as a case or similar away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place: Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury. Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit. Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury. Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off.



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This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power. **WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.** Verify Line Voltage Before Use Your AVR 745 has been designed for use with 220-240-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 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 depot 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/Output Status Indicators Ó Digital Coax 4 Jack Ô Video 4 Input/Output Jacks Front Panel Control Door 4 Headphone Jack: This jack may be used to listen to the AVR's output through a pair of headphones. Be certain that the headphones have a standard 6.3 mm stereo phone plug. Note that the main room speakers and all Preamp Outputs b will automatically be turned off when the headphone jack is in use. 5 Surround Mode Group Selector: Press this button to select the top-level group of surround modes.

Each press of the button will select a major mode grouping in the following order: Dolby Modes DTS Digital Modes DSP Modes Stereo Modes Logic 7 Modes

Once the button is pressed so that the name of the desired surround mode group appears in the on-screen display and in the Lower Display Line ~, press the Surround Mode Selector 9 to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround

Mode Selector 9 to choose from the various mode options. Ò Surround Mode Indicators Ó Speaker/Channel Input Indicators Ô Digital Select Button Û Channel Select Button i Volume Control ^ Input Indicators ~ Main Information Display ~ Remote Sensor Window EzSet/EQ II Microphone Jacks 6 Speaker Selector: Press this button to begin the process of configuring the AVR for the type of speakers it is being used with. For complete information on configuring the speaker settings using the front-panel controls see page 36. 7 < Button: When an adjustment is being made using the Channel Select Û or Digital Select Û buttons, this button may be pressed to scroll through the available options. 8 Tone Mode: Pressing this button enables or disables the Balance, Bass and Treble tone controls. When the button is pressed so that the words TONE I N appear in the Main Information Display ~, the settings of the Bass and Treble controls and of the Balance control will affect the output signals. When the button is pressed so that the words TONE OUT appear in the Main Information Display ~, the output signal will be "flat, without any balance, " bass or treble alteration, no matter how the actual Controls are adjusted. (For more information, see page 45). FRONT PANEL CONTROLS 5 29510_AVR745_Engelsk 30/10/06 9:31 Side 6 Front Panel Controls 9 Surround Mode Selector: Press this button to cycle through the individual surround modes available after the Surround Mode Group Selector 5 was pressed (see item 5 above).

Note that depending on the type of input, some modes are not always available. (See page 42 for more information about surround modes.)) 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 a station with a strong signal is reached, MANUAL TUNED or AUTO TUNED will appear in the Main Information Display ~ (see page 57 for more information on tuning stations).

! Tuner Band Selector: Pressing this button will automatically switch the AVR to the Tuner mode.

Pressing it again will switch between the AM and FM frequency bands, holding it pressed for some seconds will switch between begin received at the digital input. When the letters flash, the digital input has been interrupted. (See page 48 for more information on the Channel Indicators). Û Digital Select Button:

When playing a source that has a digital output, press this button to select between the Optical * W and Coaxial X Digital inputs (See page 47 for more information). Û Channel Select Button: 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 51). i Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the AVR is muted, adjusting volume control will automatically release the unit from the silenced condition. ^ Input indicators: The current selected mode or function 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. ~ Main Information Display: This display delivers messages and status indications to help you operate the receiver. ~ 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 unless an external remote sensor is installed. EzSet/EQ II Microphone Jack: Before starting the EzSet/EQ II automated setup process, plug the microphone into this jack. The microphone does not need to be plugged in at other times.

6 FRONT PANEL CONTROLS 29510_AVR745_Engelsk 30/10/06 9:31 Side 7 Rear Panel Connections 9 V AH i T Q B J O W ENGLISH U 5 S P C f LK R Z Y a 0 X 1 SUB 2 MODEL NO. AVR 745 230 V/60Hz 230 V/60Hz b 4 32 8 F 6 D 7 h e M g e c N Gk j I d l 0 AM Antenna 1 FM Antenna 2 Tape Inputs 3 Tape Outputs 4 Main Subwoofer Output 5 DVD Audio Inputs 6 CD Inputs 7 Multiroom Audio Outputs 8 A-BUS Connector 9 8-Channel Direct Inputs A Digital Audio Outputs B Video Monitor Outputs C DVD Video Inputs D Front Speaker Outputs E Center Speaker Outputs F Surround Speaker Outputs G Switched AC Accessory Outlet H USB Connector I AC Power Cord Jack J Video 2 Component Video Inputs K Component Video Outputs L Video 1 Component Video Inputs M Remote IR Output N Remote IR Input O Multiroom IR Input P Video 1 Video Outputs Q Video 1 Video Inputs R HDMI Output S Video 3 Video Inputs T Video 2 Video Inputs U Optical Digital Inputs V HDMI Inputs X Video 2 Audio Inputs Y Video 3 Audio Inputs Z Video 1 Audio Inputs a Video 1 Audio Outputs b Preamp Outputs c Surround Back/Multiroom Speaker Outputs d RS-232 Port e Fan Vents f DVD/Video 3 Component Video Inputs g Remote IR Carrier Output h Subwoofer 2 Output i The Bridge TheBridge Digital Media Player (DMP) Input j Trigger 1 Output k Trigger 2 Output l Multiroom Video Output TM NOTE: To assist in making the correct connections for multichannel input/output and speaker connections, all connection jacks and terminals have been color coded in conformance with the latest CEA standards as follows: Front Left: White Front Right: Red Center: Green Surround Left: Blue Surround Right: Gray Surround Back Left: Brown Surround Back Right: Tan Subwoofer (LFE): Purple Digital Audio: Orange Composite Video: Yellow Component Video "Y": Green Component Video "Pr": Red Component Video "Pb": Blue 0 AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals.



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If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna. 1 FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal. 2 Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. 3 Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. 4 Main Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. If only one subwoofer is used in your system, connect it here. 5 DVD Audio Inputs: Connect these jacks to the analog audio jacks on a DVD or other audio or video source. 6 CD Inputs: Connect these jacks to the analog output of a compact disc player or CD changer or any other audio source. 7 Multiroom Audio Outputs: Connect these jacks to an optional audio power amplifier to listen to the source selected by the multiroom system in a remote room. 8 A-BUS Connector: Connect this jack to an optional A-BUS-certified remote room keypad or amplifier to extend the multiroom capabilities of your AVR. See page 18 for more information on A-BUS. REAR PANEL CONNECTIONS 7 29510_AVR745_Engelsk 30/10/06 9:31 Side 8 Rear Panel Connections 9 8-Channel Direct Inputs: These jacks are used for connection to source devices such as DVD-Audio 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. A Digital Audio Outputs: Connect these jacks to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder. B Video Monitor Outputs: Connect this jack to the composite and/or S-Video input of a TV monitor or video projector to view the on-screen menus and the output of any standard Video or S-Video source selected by the receiver's video switcher. C DVD Video Inputs: Connect these jacks to the composite or S-Video output jacks on a DVD player or other video source. D Front Speaker Outputs: Connect these outputs to the matching + or - terminals on your left and right speakers. In conformance with the new CEA color code specification, the White terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on Front Left speaker with the older color coding, while the Red terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on Front Right speaker. Connect the black (-) terminals on the AVR to the black (-) terminals on the speakers. See page 14 for more information on speaker polarity. E Center Speaker Outputs: Connect these outputs to the matching + and - terminals on your center channel speaker. In conformance with the new 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 negative (-) terminal on your speaker. (See page 14 for more information on speaker polarity.) F Surround Speaker Outputs: Connect these outputs to the matching + and - terminals on your surround channel speakers. In conformance with the new CEA color code specification, the Blue terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on the Surround Left speaker with older color coding, while the Gray terminal should be connected to the red (+) terminal on the Surround Right speaker with the older color coding. Connect the black (-) terminal on the AVR to the matching black negative (-) terminals for each surround speaker. (See page 14 for more information on speaker polarity.) G Switched AC Accessory Outlet: This outlet may be used to power any device that you wish to have turn on when the AVR is turned on with the System Power Control switch. H USB Connector: Connect a cable with a USB "Mini B" connector to the AVR and the other end to a compatible computer running Windows® 2000, Windows® XP or higher with the latest service packs installed, to use this port to listen to audio from the computer through the AVR 745. This connection is also used to connect a compatible computer to the AVR for firmware upgrades, when available. See page 48 for more information on playback of computer audio with the AVR. Instructions for upgrades will accompany the upgrade file download package. I AC Power Cord Jack: Connect the AC power cord to this jack when the installation is complete. To ensure safe operation, use only the power cord supplied with the unit. If a replacement is required it must be of the same type and capacity. J Component Video 2 Inputs: These inputs may be used with any video source device equipped with analog Y/Pr/Pb or RGB component video outputs. The factory default is for these jacks to be a linked to the Video 2 input, but you may change the setting at any time through the IN/OUT SETUP menu. See page 14 for more information on configuring the component video inputs. K Monitor Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the two Component Video Inputs JL is selected the signal will be sent to these jacks. L Component Video 1 Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. The factory default is for these jacks to be a linked to the Video 1 input, but you may change the setting at any time through the IN/OUT SETUP menu. See page 14 for more information on configuring the component video inputs. Note: All component inputs/outputs can be used for RGB signals too, in the same way as described for the Y/Pr/Pb signals, then connected to the jacks with the corresponding color. RGB connection is not possible if the source outputs a separate sync signal (see page 15). M Remote IR Output: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment. N Remote IR Input: If the AVR's front-panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack. O Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR's multiroom control system. P Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR. Q Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source. R HDMI Output: Connect this jack to the HDMI input on a compatible HDMI-equipped video display.



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S Video 3 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on any video source. T Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a second VCR or other video source.

U Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, LD player, MD player or CD player to these jacks. The signal may be either a Dolby Digital signal, a DTS signal, a 2 channel MPEG 1 signal, an HDCD data stream or a standard PCM digital source. 8 REAR PANEL CONNECTIONS 29510_AVR745_Engelsk 30/10/06 9:31 Side 9 Rear Panel Connections V Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, LD player, MD player or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal, a 2 channel MPEG 1 signal, an HDCD data stream or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. W

HDMI Inputs: Connect the HDMI output of video sources such as a DVD player, set-top box or HDTV tuner to either of these jacks. X Video 2 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a second VCR or other audio or video source. Y Video 3 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. Z Video 1 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other audio or video source. a Video 1 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR or any other Audio recorder.

b Preamp Outputs: Connect these jacks to an optional, external power amplifier for applications where higher power is desired. c Surround Back/Multiroom Speaker Outputs: These speaker terminals are normally used to power the surround back left/surround back right speakers in a 7.1 channel system. However, they may also be used to power the speakers in a second zone, which will receive the output selected for a multiroom system. To change the output fed to these terminals from the default of the Surround Back speakers to the Multiroom Output, you must change a setting in the Multiroom Menu of the OSD system.

See page 55 for more information on configuring this speaker output. In normal surround system use, the brown and black terminals are the surround back left channel positive (+) and negative (-) connections and the tan and black terminals are the surround back right positive (+) and negative (-) terminals. For multiroom use, connect the brown and black SBL terminals to the red and black connections on the left remote zone speaker and connect the tan and black

SBR terminals to the red and black terminals on the right remote zone speaker. d RS-232 Port: This jack may be used to control the AVR 745 over a bi-directional RS-232 serial control link to a compatible computer or programmable remote control system. Due to the complexity of programming RS-232 commands we strongly recommend that connections to this port for control purposes be made by a trained and qualified technician.

This jack may also link to a compatible computer to upgrade the software and operating system of the AVR 745 when appropriate upgrades are available. e

Fan Vents: These ventilation holes are the output of the AVR's airflow system. To ensure proper operation of the unit and to avoid possible damage to delicate surfaces, make certain that these holes are not blocked and that there is at least three inches of open space between the vent holes and any wooden or fabric surface. f DVD/Video 3 Component Video Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video

outputs. The factory default is for these jacks to be a linked to the DVD input, but you may change the setting at any time through the IN/OUT SETUP menu. See page 14 for more information on configuring the component video inputs. g Remote IR Carrier Output: The output of this jack is the full signal received at

the Remote Sensor Window or input through the Remote IR Input N including the carrier frequency that is removed from signals at the Remote IR Output M.

Use this output to extend IR remote signals to the input of compatible products by direct connection or through the use of optional, external IR "blasters". If you are in doubt as to which of the two IR Output jacks to use, we recommend that you consult with your dealer or installer, or check with the manufacturer of the external equipment you wish to control. h Subwoofer 2 Output: If your system has two subwoofers, connect one to Main Subwoofer Output 4, and connect the line level input of a second subwoofer to this jack.

i Digital Media Player (DMP) Connector: With the AVR 745 turned off, connect one end of the optional Harman Kardon to this proprietary connector, and the other to your compatible Apple iPod. When the Digital Media Player source is selected, you may view your iPod's control and navigation messages on your video display (if one is connected to one of the Video Monitor Outputs B), and in the Upper and Lower Display Lines ~. You may navigate the iPod and select tracks for playback using the ⏪ > Buttons DF, the Set Button EQ and Transport Controls 9P on your AVR remote. See page 50 for more information.

j Trigger 1 Output: Connect this jack to the "Trigger In" jack of an optional external component such as an audio power amplifier that you want to be controlled to mirror the power state of the AVR 745. When this connection is used, the AVR 745 will automatically send a low-voltage signal to the connected device that turns it on when the AVR 745 is on and off when the AVR 745 is placed in the Standby Mode. The connected component must respond to 6-volt presence as the control signal. k Trigger 2 Output: Connect this jack to the "Trigger In" jack of an optional, external component such as a projection screen or motorized blinds that you want to turn on or off in response to the power state of the AVR 745, but only when certain inputs are selected. (For example, lower a screen when a Video related mode is selected, but not for the tuner or a CD player.) For the 5-volt control signal to be sent to the jack for device control, you must activate the appropriate setting in PAGE 2 of the IN/OUT SETUP menu.

See page 19 for more information. l Multiroom Video Output: Connect this jack to the cable and/or optional, external video distribution system that delivers the video source selected for multizone distribution to remote rooms. Only composite video is available. ENGLISH REAR PANEL CONNECTIONS 9

29510_AVR745_Engelsk 30/10/06 9:31 Side 10 Main Remote Control Functions 0 USB Connector 1 IR Emitter Window 2 Power Button 3 Activities Button 4

Devices Button 5 Help Button 6 Screen Buttons 7 LCD Screen 8 Page Left/Right Buttons 9 Transport Control Buttons A Device Control Buttons B Mute Button C Volume Controls D Navigation Buttons E OK/Enter Button F Glow Button G Channel Up/Down H Numeric Keys I Infrared Learning Port 0 2 4 1 3

5 6 6 7 8 9 A B C E G D F H I 10 MAIN REMOTE CONTROL FUNCTIONS 29510_AVR745_Engelsk 30/10/06 9:31 Side 11 Main Remote Control Functions

0 USB Connector: Push down on the rubber cover to access the USB connector.



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To program the TC 30 from our Web site, connect the supplied USB cable here, and then to your computer.

1 IR Emitter Window: Point this end of the remote toward the devices being controlled. 2 Power Button: Press this button to turn a Device off. 3 Activities Button: Press this button to view the list of Activities programmed into your TC 30. Press the Screen Button next to an Activity to select it and turn on the Devices in that Activity. 4 Devices Button: Press this button to display a list of all the devices programmed in your TC 30. To control the Device, press the Screen Button next to the desired device's name. 5 HELP Button: If you are having problems with an Activity, press this button for interactive help screens that will resolve issues with synchronizing the status of the components in your system. 6 Screen Buttons: Press the buttons at either side of the LCD screen to select the Activity, Device or command shown next to the button. 7 LCD Screen: The LCD screen displays system messages, help screens and the functions assigned to the Screen Buttons 6, depending on the remote's current status. 8 Page Left/Right Buttons: Press these buttons to show additional screen display pages for a Device, activity or setup function. 9 Transport Control Buttons: Press these buttons to control the transport functions (Stop/Skip Back/Skip Forward/Play/Record/Fast Reverse/Fast Forward/Pause) for Devices such as DVD or CD players, digital recorders and VCRs when they are active. A Device Control Buttons: These buttons directly control functions of the currently active Device. The names on the individual button names are the typical function, but the actual function will vary with the device. B Mute Button: Press this button to activate the MUTE function of the Device being controlled. C Volume Controls: Press these buttons to change the volume of the Device being controlled.

D Navigation Buttons: The function of these "up/down/left/right" buttons varies according to the Device being controlled. E OK/Enter Button: This button is normally the "Enter" or "Select" function for the Device being controlled, but its function will vary according to the Device being controlled. F Glow Button: Press this button to illuminate the LCD screen and the button backlighting. The backlighting will also come on when any button is pushed. You may change the setting for the length of time the lighting is on via the TC 30 Web site. The backlighting will also turn on automatically any time you move the remote, thanks to a built-in "tilt sensor." You may disable the "tilt-on" function in the Remote Options section of the TC 30 Web site. G Channel Up/Down: Press these buttons to change the channel or station of the device being controlled. H Numeric Keys: These buttons enter numeric values for the device being controlled. I Infrared Learning Port: When "learning" commands from a Device's remote into the TC 30, point the IR transmitter on the remote being "learned" here.

ENGLISH MAIN REMOTE CONTROL FUNCTIONS 11 29510_AVR745_Engelsk 30/10/06 9:31 Side 12 Zone II Remote Control Functions The Zone II remote may be used in either the same room where the AVR is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR's Multi IR input jack O. A E B K J D We strongly recommend that the ZR 10 remote be used for the initial configuration and setup process for the AVR 745. A Power Off: When used in the room where the AVR is located, press this button to place the unit in Standby. When it is used in a remote room with a sensor that is connected to the Multi IR jack O, this button turns the MultiRoom system off. B AVR Selector: Press this button to turn on the AVR. The input in use when the unit was last on will be selected. C AM/FM Tuner Select: Press this button to select the Tuner as the input to the Multiroom system. Press it again to change between the AM and FM bands. D Input Selectors: When the AVR is off, press one of these buttons to turn the unit on and to select a specific input. When the unit is already in use, pressing one of these buttons will change the input.

E OSD Button: Press this button to activate the On Screen Display (OSD) system used to set up or adjust the AVR's parameters. C J F I H P Q O G N M J L F Navigation Controls: Depending on the menu or function in use, pressing these buttons will navigate through menus, scroll through option lists or configuration choices, or move the cursor position. Press the left, right, up or down button, as appropriate to the adjustment being made. A B C D E F G H I J K L M Power Off AVR Selector AM/FM Tuner Select Input Selectors OSD Button Navigation Controls Numeric Keys Disc Skip Volume Up/Down Blank Buttons Mute Clear Button Direct Button N O P Q Memory Button Tuner Mode Button Transport Controls Set Button The Bridge /DMP Selector NOTE: The Zone II remote may be used in either the same room where the AVR is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR's Multi IR input jack f. When it is used in the same room as the AVR, it will control the functions of the AVR or any compatible Harman Kardon products in that room. When it is used in a separate room via a sensor connected to the Multi IR Jack f, the buttons for power, input source, volume and mute will control the source and volume for the second zone, as connected to the Multi Out Jacks . (See page 55 for complete information on using the Multiroom system.) 12 ZONE II REMOTE CONTROL FUNCTIONS 29510_AVR745_Engelsk 30/10/06 9:31 Side 13 Zone II Remote Control Functions G Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, VCR or Sat receiver 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. H Disc Skip: Press this button to change discs on compatible Harman Kardon CD or DVD changers.

I Volume Up/Down: When used in the room where the AVR is located, press this button to raise or lower the volume in that room. When it is used in a remote room with a sensor that is connected to the Multi IR Jack O, this button will raise or lower the volume in the remote room. J Blank Buttons: These buttons are not active. Pressing them will not change or control any function on the AVR 745 or other IR devices. K Mute: When used in the room where the AVR is located, press this button to temporarily silence the unit. When it is used in a remote room with a sensor that is connected to the Multi IR Jack O, this button will temporarily silence the feed to the remote room only. Press the button again to return to the previous volume level. Important Note: No matter in which room the Zone II remote is used, as with the main remote it is important to remember to press the Input Selector button D that corresponds to the unit you wish to operate before you change the device to be controlled.



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L Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency. M 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 G to select a station (See page 57 for more information on the tuner). N Memory Button: Press this button to enter a radio station into the AVR's preset memory. Two underline indicators will flash at the right side of the Main Information Display ~, you then have five seconds to enter a preset memory location using the Numeric Keys G. (See page 57 for more information.) O 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 MANUAL appears in the Main Information Display ~, pressing the Tuning buttons K will move the frequency up or down in single-step increments. When the FM band is in use and AUTO appears in the Main Information Display ~, pressing this button will change to monaural reception making even weak stations audible. (See page 57 for more information.) P Transport Control Buttons: These buttons do not have any functions for the AVR, but they are programmed for the forward/reverse play operation of a wide variety of Harman Kardon CD or DVD players, and audio or video-cassette recorders. Q Set Button: This button is used to enter settings into the AVR's memory.

It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. Digital Media Player (DMP) Selector: When Harman Kardon's (optional) is connected to Digital Media Player (DMP) Connector 8 and a compatible Apple® iPod® is docked in , pressing this selector will select the iPod as the audio source input device for the AVR 745. In addition, if a video display is connected to one of the Video Monitor Outputs B, the iPod's messages will appear on screen, and in the Upper and Lower Display Lines ~. The /&/</> Buttons DF, the Set Button EQ and the Transport Controls AP may be used to navigate the iPod and to operate many functions. See page 50, and the manuals for The Bridge and your iPod for more information.

ENGLISH ZONE II REMOTE CONTROL FUNCTIONS 13 29510_AVR745_Engelsk 30/10/06 9:31 Side 14 Installation and Connections After unpacking the unit, and placing it on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment. Before starting to connect your AVR 745 to the source devices, display device, speakers and other components in your system, you should also unpack the TC 30 remote, which is found in the separate box inside the AVR 745 carton. So that the TC 30 is ready when you begin the system configuration process, install the battery, connect the charger and place the remote in the charging cradle, as it takes approximately twelve hours for the battery to fully charge. 5. Assemble the AM Loop Antenna supplied with the unit as shown below.

Connect it to the AM and GND screw terminals 0. NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front-left and front-right or surround-left and surround-right speakers, even if the speakers are a different distance from the AVR. 8. Connections to a single subwoofer are normally made via a line level audio connection from the Subwoofer Output 4 to the line-level input of a subwoofer with a built-in amplifier. When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information.

If your system uses two subwoofers, connect the Subwoofer 2 Output h jack on the AVR to the Line Input of the second subwoofer. 9. If an external multi-channel audio source with 5.1 or 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 8-Channel Direct Inputs 9.

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. When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. 1. Connect the analog output of a CD player to the CD inputs 6.

*NOTE: When the CD player has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted. 2. Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the Tape Input jacks 2. Connect the analog Record/In jacks on the recorder to the Tape Output jacks 3 on the AVR. 3. Connect the digital output of any digital sources such as a CD or DVD changer or player, advanced video game, a digital satellite receiver, HDTV tuner or digital cable set-top box or the output of a compatible computer sound card to the Optical and Coaxial Digital Inputs U V *Ó. 4. Connect the Coaxial or Optical Digital Outputs A on the rear panel of the AVR to the matching digital input connections on a CD-R or MiniDisc recorder. 6. Connect the supplied FM antenna to the FM (75 ohm) connection 1.*

The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you should use a 300-ohm-to-75-ohm adapter to make the connection. 7. Connect the front, center and surround speaker outputs DEFc 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 fine, multistrand copper with an area greater than 2 mm².



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Cable with an area of 1.5 mm² may be used for short runs of less than 4 m.

We do not recommend that you use cables with an area less than 1 mm² 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 any appropriate testing agency standards. Questions about running cables inside walls should be referred to your installer or a licensed electrician who is familiar with the applicable local building codes in your area. When connecting wires to the speakers, be certain to observe proper polarity. Note that the positive (+) terminal of each speaker connection now carries a specific color code as noted on page 7.

However, most speakers will still use a red terminal for the positive (+) connection. Connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. Analog Video Equipment Connections Analog 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 audio and video Play/Out jacks to the Video 1 or Video 2 In jacks Q T X Z on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Out jacks P a on the AVR. 14 INSTALLATION AND CONNECTIONS 29510_AVR745_Engelsk 30/10/06 9:31 Side 15 Installation and Connections 2. Connect the analog audio and video outputs of a satellite receiver, cable TV converter or television set or any other video source to the Video 3 S Y jacks. 3. Connect the analog audio and video outputs of a DVD or laser disc player to the DVD jacks 5C. 4. If any of the video source devices has analog component video (Y/Pr/Pb) outputs, but not HDMI, connect them to Component Video Inputs JL. The chart on page 60 has the default settings for various source devices, but you may make any connection and change the configuration setting using the IN/OUT SETUP menu, as described on page 23. 5.

The default video connection for a DVD player is to use the Component Video Input 3 Jacks f on the AVR, but you may change this assignment in the IN/OUT SETUP menu (see page 23). A DVD player's composite and S-video outputs may also be connected to the DVD Video Inputs C. Only one connection type is required, although a composite or S-video connection is required if the AVR 745 is to be used in a multiroom video system. 6. The default audio connection for a DVD player is to link the coaxial digital audio output on the DVD player to the Coaxial 1 Digital Audio Input V, but you may also make a connection to either the Coaxial V or Optical U digital inputs, or the Analog DVD Audio Inputs 5. You may change the assignment in the IN/OUT SETUP menu as described on page 23, or by using the front-panel Digital Input Selector Ũ. 7. If you wish to use a portable audio/video product such as a camcorder, portable media player or digital still camera with the AVR, or make a connection to a video game console or other source that may not always be connected to the AVR, connect the video outputs of the source to the Video 4 Input/Output Jacks Ó behind the front door. If the source has digital audio outputs, connect them to the Optical 4 Digital Input * or the Coaxial 4 Digital Jack Ó. Connection Notes: When making connections to the Component Video Inputs JLf or the Coaxial V or Optical U digital audio inputs, it is a good idea to make note of which jacks are connected to which source, using the Worksheet in the Appendix.

This will help simplify the configuration process. NOTE: When connecting a device such as a digital cable box or other set-top tuner product with a digital audio output, we recommend that you connect both the digital and analog outputs of the product to your AVR. The audio input polling feature of the AVR will then be able to make certain that you have a constant audio feed, since it will automatically switch the audio input to the analog jacks if the digital feed is interrupted or not available for a particular channel. 8. 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 *ÓÓ.

A device connected to the Video 4 jacks Ó is selected as the Video 4 input, and connected to the digital jacks *Ó it is selected as "Optical 4" or "Coaxial 4" input. (See page 51 for more information on input configuration.) 9. Connect the AVR to your video display using one of the following connections: · If you have a video display with an HDMI or DVI input, make the connection using the HDMI Output R, as described in the next section. · If your video display has component video inputs (Y/Pr/Pb), connect the Component Video Outputs K.

· If your display does not have digital or component video inputs, connect the Video Monitor Output B on the AVR to the matching input on your display. Only one connection is needed, and S-video is the higher quality signal. Some source or display components in your system may use DVI (Digital Video Interface) for digital video connections. DVI carries the same digital video signals as HDMI but uses a larger connector and does not transport audio or control signals.

In most cases, you may mix and match DVI and HDMI digital video connections by using optional connector adapters. Note, however, that some DVI-equipped video displays are not compatible with the HDCP copy protection coding that is increasingly carried with signals connected via HDMI. If you have an HDMI source and a DVI-equipped display, you may occasionally be unable to view a program if the display does not include HDCP. This is not the fault of the AVR or your source; it simply indicates that the video display is not compatible. ENGLISH HDMI Input Connections The different "Version" levels of HDMI define which type of audio signals it is compatible with. Based on the lowest level of HDMI among your sources, the connections to the AVR should be made as follows: · HDMI 1.

0 sources carry digital video and multichannel or 2-channel PCM audio signals only. Connect the HDMI output of a 1.0 source to either of the HDMI Inputs W on the AVR. If the product is a DVD-Audio player or other source that has multichannel analog audio outputs, connect them to the 8-Channel Direct Inputs 9. With an HDMI 1.0 source, particularly a DVD player, make certain that the menus in the source device are set to "Bitstream Out" or "Original" so that 5.1 digital audio is available. If you find that 5.1 Dolby Digital or DTS audio is not available on the HDMI connection, it will be necessary to make an additional connection between the source and the AVR 745 to either the Coaxial V Ó or Optical U * Digital Inputs. · HDMI 1.

1 sources carry the multichannel digital audio output from DVD-Audio players in addition to the digital video.



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If you have an HDMI 1.1-equipped product, the only connection needed for listening in the main room is from the HDMI output of the source to either of the HDMI Inputs W on the AVR. If the player has SACD capability, you will need to connect the analog outputs of the source to the 8-Channel Direct Inputs 9. · HDMI 1.

2 (and higher) sources should be connected as shown above for HDMI 1.1, except that a separate analog connection is not needed for SACD players. HDMI Connections HDMI™ is the abbreviation for High-Definition Multimedia Interface, which is quickly becoming the standard connection point between advanced video/audio source products and displays, particularly for high-definition video signals. HDMI is a digital connection, eliminating the need to convert signals back and forth from digital to analog to deliver a higher quality signal when used with digital sources. The signals carried on HDMI may, but do not always, include audio, offering the possibility of a complete onewire connection from a source to the AVR.

However, it is important to note that there are a number of different versions of the HDMI standard in use. Before connecting any HDMI products to your AVR, it is helpful to find out in advance their level of HDMI connectivity. INSTALLATION AND CONNECTIONS 15 29510_AVR745_Engelsk 30/10/06 9:31 Side 16 Installation and Connections · It is not possible to feed an analog composite or S-video signal to a recorder or the AVR's multizone system when an HDMI input is in use. If an HDMI-equipped source also has analog audio and video outputs, connect them to the Video 2 or Video 3 Video ST and Audio XY on the AVR. · In some instances, HDMI-equipped sources will not permit more than one video output at a time, and thus you cannot use the same source in the main listening room and with the recorder or remote zone at the same time. This is not a fault of the AVR, but rather a function of the content protection systems that are part of the HDMI standard. SCART A/V Connections For the connections described above your video device needs RCA (cinch) connectors or/and SVideo connectors for all Audio and Video signals: Any normal video device (Not SVHS or High 8) for only playback needs 3 RCA jacks, VCRs for record and playback even 6 RCA jacks. Any S-Video device (SVHS, High 8) needs 2 RCA (Audio) and 1 S-Video jack (Video), if it's a playback unit, or 4 RCA (Audio In/Out) and 2 S-Video (Video In/Out) jacks, if it's a recording VCR. Many european video devices are equipped with RCA (Cinch) or S-Video jacks only partially, not for all audio and video in/outputs needed as described above, but with a so called Scart or Euro-AV connector (almost rectangular jack with 21 pins, see drawings on next page). In that case the following Scart to Cinch adapters or cables are needed: · Units for playback, such as satellite receivers, camcorders, DVD or LD players, need an adapter from Scart to 3 RCA plugs, see fig.

1 (normal video devices) or from Scart to 2 RCA+1 S-Video plugs, see fig. 4 (S-Video devices). · HiFi VCRs need an adapter from Scart to 6 RCA plugs, see fig. 2 (normal video), or from Scart to 4 Audio+2S-Video jacks, see fig. 5 (S-Video VCR). Read carefully the instruction attached to the adapter to find which of the six plugs is used for the record signal to the VCR (connect with the AVR's Out jacks) and for the playback signal from the VCR (connect with the AVR's In jacks). Do not misconnect Audio and Video signals. Don't hesitate to consult your dealer, if you are uncertain. · If you use only normal video devices the TV monitor needs an adapter from 3 RCA plugs to Scart (fig. 3) only.

If also S-Video devices are used an adapter from 2 RCA+1S-Video plugs to Scart is needed additionally (fig. 6), connected to the SCART input on your TV that is provided for S-Video. Note that only the video plugs (the "yellow" cinch plug in fig. 3 and the S-Video plug in fig. 6) must be connected to the TV Monitor Output B, and the volume on the TV must be reduced to minimum.

Important Note for Adapter Cables: If the cinch connectors of the adapter you'll use are labeled, connect the Audio and Video "In" plugs with the corresponding Audio and Video "In" jacks on the AVR (and with a VCR connect the "Out" plugs to the "Out" jacks on the AVR). Note that with some adapter types it may be just turned around: If no signal is audible/ visible when the VCR is playing connect the "Out" plugs to the "In" jacks on the AVR and turned around. If the adapter plugs are not labeled in that way, pay attention to the signal flow directions as shown in the diagrams above and in the instruction attached to the adapter. If uncertain, don't hesitate to consult your dealer. HDMI Output Connections Connect the HDMI Output R to an HDMI input on your video display.

Thanks to the AVR 745's video processing system, all video input signals are converted to an HDMI output, so only one connection is required between the AVR and your display. 16 INSTALLATION AND CONNECTIONS 29510_AVR745_Engelsk 30/10/06 9:31 Side 17 Installation and Connections Black Black Figure 1: SCART/Cinch-Adapter for playback; signal flow: SCART Cinch Yellow Yellow Red Red Black Black Red Red Blue Blue1 Figure 2: SCART/Cinch-Adapter for record and playback; signal flow: SCART Cinch Black Black Yellow Yellow Green Green1 White White Figure 3: Cinch/SCART-Adapter for playback; signal flow: Cinch SCART Figure 4: SCART/S-Video Adapter for playback; signal flow: SCART Cinch Yellow Yellow Red Red Important Note for the Use of SCART-Cinch Adapters: When video sources are connected to the TV directly with a SCART cable, specific control signals apart from Audio/Video signals will be fed to the TV. These specific signals are: With all video sources, the signal for automatic input selection that switches the TV automatically to the appropriate input as soon as the video source is started. And with DVD players, the signals automatically turning the TV to 4:3/16:9 format (with 16:9 TVs or with 4:3 TVs with selectable 16:9 format) and turning the RGB video decoder of the TV on or off, depending on the DVD player's setting. With any adapter cable, these control signals will be lost and the appropriate setting of the TV must be made manually. Note for RGB signal with SCART: If you use a unit providing RGB signals on a SCART output (as e.g. most DVD players do) and you want to use that RGB signal, this SCART output must be connected directly to your TV. Although the AVR can switch three-way video signals (like component signals Y/Pb/Pr), most TVs need separate sync signals for RGB (also with SCART) that cannot be switched and provided by the AVR. RGB signals can be pathed through the AVR only when no separate sync signal is needed (see last "Video Connection Note" on page 16).



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Rot Red Schwarz Black S-Video In S-Video In Schwarz Black Rot Red Blau Blue I Figure 5: SCART/S-Video Adapter for record and playback; signal flow: SCART Cinch Rot Red Gelb Yellow S-Video In S-Video In S-Video Out S-Video Out Figure 6: SCART/S-Video Adapter for playback; signal flow: Cinch SCART I Schwarz Black S-Video Out S-Video Out Also other colours possible, e.g. brown and grey. **INSTALLATION AND CONNECTIONS 17 ENGLISH 29510_AVR745_Engelsk 30/10/06 9:31 Side 18 Installation and Connections System and Power Connections** The AVR 745 is designed for flexible use with multiroom systems, external control components and power amplifiers. **Main Room Remote Control Extension** If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, the remote sensor of any Harman Kardon or other compatible device, not covered by the door, or an optional remote sensor may be used. Connect the Remote IR Output of that device or the output of the remote sensor to the Remote IR Input jack N. If other components are also prevented from receiving remote commands, only one sensor is needed. Simply use this unit's sensor or a remote eye by running a connection from the Remote IR Output jack M to the Remote IR Input jack on Harman Kardon or other compatible equipment. **Multiroom IR Link** The key to remote room operation is to link the remote room to the AVR's location with wire for an infrared receiver and speakers or an amplifier.

The remote room IR receiver (this can be an optional IR receiver or any other remotable Harman Kardon device in the remote room with IR sensor integrated) should be connected to the AVR via standard coaxial cable. Connect the Remote IR Output of the device or of the optional sensor with the Multiroom IR Input jack O on the AVR's rear panel. If other Harman Kardon compatible source equipment is part of the main room installation, the Remote IR Output jack M on the rear panel should be connected to the IR IN jack on that source device. This will enable the remote room location to control source equipment functions. When a remote IR sensor is used to control non-Harman Kardon source equipment, we recommend that you make a direct connection or use an optional, external IR "blaster" connected to the Remote IR Carrier Output Jack g.

If you are in doubt as to which IR Output jack to use for the equipment in your system, contact your dealer or installer, or the manufacturer's support site and ask whether the unit to be controlled uses "full carrier" or "stripped" carrier IR commands. When "full carrier commands" are used, make the connection to the Remote IR Carrier Output Jack g. Otherwise, make the connection to the Remote IR Output Jack M as noted above. **NOTE:** All remotely controlled components must be linked together in a "daisy chain". Connect the IR OUT jack of one unit to the IR IN of the next to establish this chain.

Multiroom Audio Connections Depending on your system's requirement and distance from the AVR to the remote room, three options are available for audio connection: **Option 1:** Use high-quality, shielded audio interconnect phono cable from the AVR's location to the remote room. In the remote room, connect the interconnect cable to a stereo power amplifier. The amplifier will be connected to the room's speakers. At the AVR, plug the audio interconnect cables into the Multiroom Output Jacks 7 on the AVR's rear panel. **Option 2:** Place the amplifier that will provide power to the remote location speakers in the same room as the AVR, and connect the Multiroom Output Jacks 7 on the rear panel of the AVR to the audio input of the remote room amplifier. Use the appropriate speaker wire to connect the optional power amplifier to the remote speakers. High-quality wire of at least 2.5 mm² is recommended for long multiroom connections. **Option 3:** Taking advantage of the AVR's built-in seven-channel amplifier, it is possible to use two of the amplifier channels to power speakers in the remote room. When using this option you will not be able to use the full 7.

1-channel capabilities of the AVR in the main listening room, but you will be able to add another listening room without additional external power amplifiers. To use the internal amplifiers to power a remote zone, connect the speakers for the remote room location to the Surround Back/Multiroom Speaker Outputs c.

Before using the remote room you will need to configure the amplifiers for surround operation by changing a setting in the Multiroom menu, following the instructions shown on page 55. **NOTE:** For all options, you may connect an optional IR sensor (Harman Kardon He 1000) in the remote room to the AVR via an appropriate cable. Connect the sensor's cable to the Multiroom IR Input O on the AVR and use the Zone II remote to control the room volume.

Alternatively, you may install an optional volume control between the output of the amplifiers and the speakers. **Multiroom Video Connections** The AVR 745's multiroom system is designed to send both video and audio signals to a remote room location. This may be the same source that is in use in the main room, or you may select a separate input source through the Multiroom menus or remote, as explained on page 55. The only additional connection required to add video capabilities to your multiroom system is to connect the Multiroom Video Output I either directly to the video display in the remote room or to any optional video distribution amplifiers that may be required when the length of the connection cable is such that additional amplification is required. The following items may be of additional assistance when using video as part of a multiroom system with the AVR 745: · Component video sources may not be routed through the multiroom system.

When using a component video device, you should also make a composite or S-Video connection to permit use of the multiroom system. · As with all cable installations, when running any wiring inside a wall be certain that the cable carries the proper NEC rating for the application. The use of improperly rated cables may present a safety hazard. Consult a qualified installer or licensed electrician should you have any questions about the use of in-wall cables for video or audio. · When connecting the AVR 745 to the remote room video display, be aware of the distance limitations that may exist for both composite and S-Video connections.

Although the use of low-loss coax for composite video and highergrade S-Video cables may reduce signal loss, optional distribution amplifiers may occasionally be required when long cable runs are used. **A-BUS Installation Connections** The AVR is among the very few receivers available today that offers built-in A-BUS/READY operation. When used with an optional A-BUS keypad or control module, you have all the benefits of remote zone operation without the need for an external power amplifier.



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