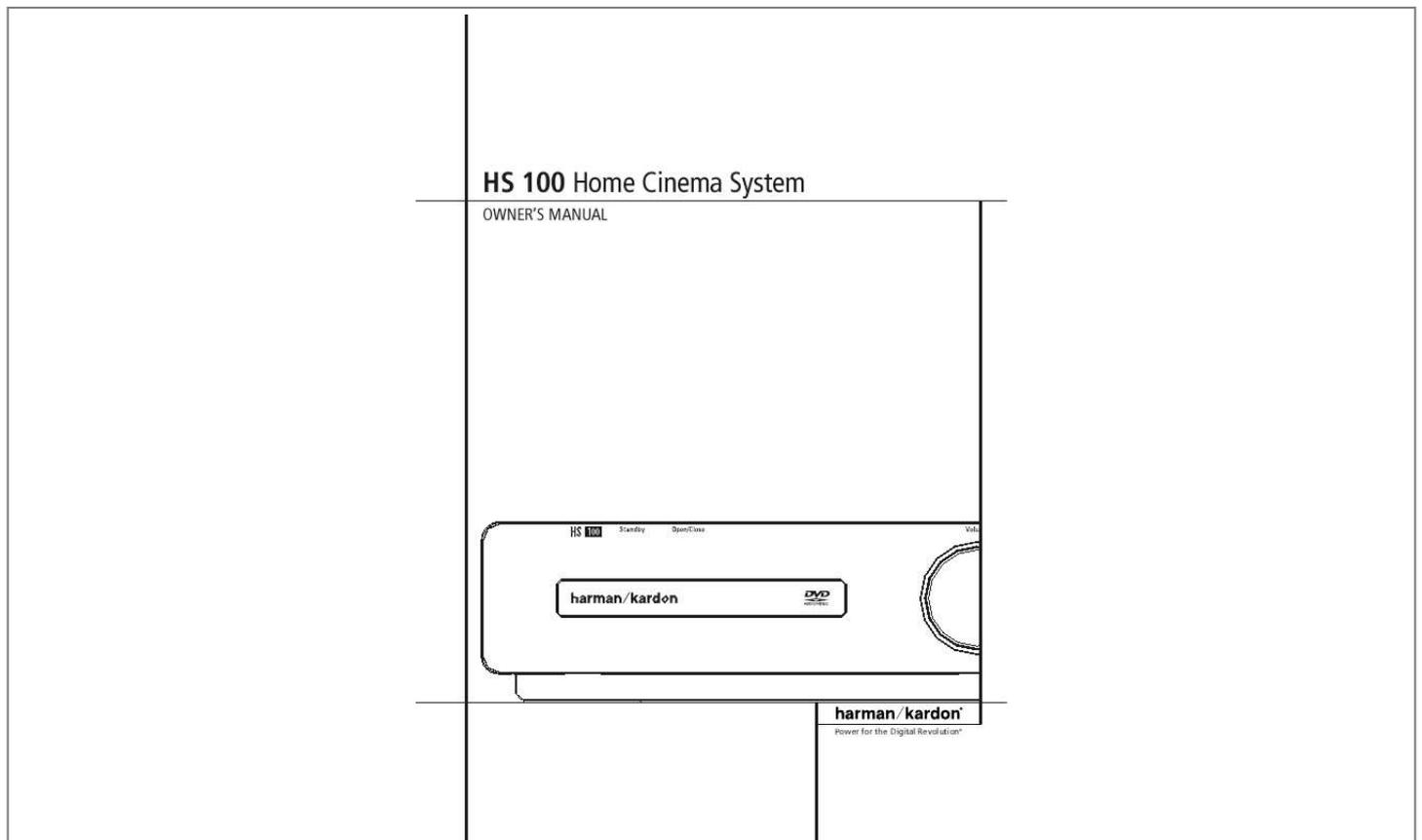




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON HS 100. You'll find the answers to all your questions on the HARMAN KARDON HS 100 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 HS 100
User guide HARMAN KARDON HS 100
Operating instructions HARMAN KARDON HS 100
Instructions for use HARMAN KARDON HS 100
Instruction manual HARMAN KARDON HS 100



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Manual abstract:

The HS 100 has been engineered so that it is easy to take advantage of all the power of its digital technology. To obtain the maximum enjoyment from your new system, 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 HS is able to deliver. @@They are your best local sources of information. @@@@For optimum playback of NTSC and PAL DVD with compatible high-definition display devices, the HS 100 is equipped with progressive component video outputs. A wide range of programming features makes it easy to program an evening's worth of entertainment. When playing DVDs, easy-to-understand on-screen menus and icons make it simple to change languages, soundtracks, subtitles or aspect ratio, while a parental-lock function enables you to control which discs may be viewed by younger members of the household. Upgradeability via Internet The "firmware" controlling the functionality of the Harman Kardon DVD is fully upgradeable. In the event of future improvements to its operations and features, it will be possible to download firmware upgrades from www.harmankardon.com/International/ All you have to do is create a CD-R with the data and insert it in the DVD for an automatic upgrade. Plays a Wide Range of Video and Audio Formats, Including DVD-Video Discs, VCD, Standard CD Audio Discs, CD-R/RW, DVD-R/RW, DVD+R/RW, Audio Discs and MP3 Discs DVD-Audio Playback for Richer Detail, Expanded Dynamic Range and Improved Realism Extensive Bass Management Options for DVD-Audio with Speaker Setup, Output Level Adjustment and Delay Settings High-Quality Video Playback 10-Bit DACs, Progressive Scan and Component Video Outputs Easy-to-Use On-Screen Navigation System Playback of MP3 and Windows® WMA Audio Discs and JPEG image files Simultaneous Playback of MP3 and JPEG files Extensive Programming Capability for Audio and Video Discs Parental Lock Controls Prevent Unauthorized Viewing of Restricted Movies Multiple Options for Language, Soundtrack and Subtitle Selection Multiple-Angle Capabilities With Specially Encoded DVD Discs Ergonomically Designed Remote Control Multiple digital inputs and outputs On-screen menu and display system IMPORTANT NOTES: This manual should be read in conjunction with the owners manual of the accompanying loudspeaker system. The instructions found therein should be followed with respect to loudspeaker operation and safety. Only use the HS 100 controller with the loudspeaker system supplied. Failure to do so may cause damage to either the controller or the loudspeakers and will invalidate any warranty.

All of the optional system settings have been preset at our factory for correct operation of the system. All you have to do is insert a disc, sit back, and enjoy a great home theater experience. You may want to change some of the optional settings. A description of all the optional settings and instructions for changing them are found in the second half of the manual. This system was designed to provide you with many years of reliable operation with a minimum Disc formats supported by this player The unit can play the following disc formats (8 cm and 12 cm size): · DVD-AUDIO · DVD · DVD-R · DVD-RW · DVD+R · DVD+RW · CD · CD-R · CD-RW · VCD · S-VCD NOTE: Due to differences in the format of certain discs, it is possible that some discs may include a mix of features that are not compatible with the DVD.

Similarly, although the DVD is capable of a wide range of features, not all discs include every capability of the DVD system. For example, although the DVD is compatible with multi-angle discs, that feature is only possible when the disc is specially encoded for multiple-angle play. In addition, the DVD is capable of playing back both Dolby Digital and DTS soundtracks, but the number and types of tracks available will vary from disc to disc. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket. Playback capability for CD-R, CD-RW, WMA, JPEG, MP3, VCD/SVCD, DVD-R, DVD+R, DVDRW and DVD+RW discs may vary due to variations in the quality of the disc and the recorder used to create the disc. NOTE: This player is designed and manufactured for compatibility with Region Management Information that is encoded on most DVD discs. This player is designed only for playback of discs with Region Code 2, or for discs that do not contain Region Code information. If there is any other Region Code on a disc, that disc will not play on the DVD. 2 INTRODUCTION 3 ENGLISH Introduction / Safety Information of care and maintenance. Every component in your system was in perfect working condition when it left our factory.

If you experience any problems with the set-up or operation of this system, please review the Troubleshooting Guide at the end of this manual before you contact your authorized Harman Kardon dealer. Installation Location To assure 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. 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. Do not place the unit directly on a carpeted surface. Avoid installation in extremely hot or cold locations, or an area that is exposed to direct sunlight or heating equipment. Avoid moist or humid locations. Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them.

Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, 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. 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.



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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. Copyright Audio-visual material may consist of copyright works which must not be recorded without the permission of the owner of the copyright. Please refer to relevant laws covering copyright protection. Copy protection This DVD player supports Macrovision copy protection. On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally. For Optimum Performance The controller is a precision device that is constructed using extremely accurate technology.

Soiling or friction affecting the pickup lens or disc drive can impair the image quality. In the worst case, neither video nor audio will be played back. To obtain optimum picture quality, the player should be checked (cleaning and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust) in which the player is used. Do not attempt to clean the pickup lens yourself. Unpacking Check that you have the following items: · HS 100 Controller (1) & a title as the producers decide to include. Most discs include only one title, but some may have more than one, to give you a "Double Feature" presentation. Chapter: DVD programs are divided into chapters and titles. Chapters are the sub-sections programmed into a single title on a disc. Chapters may be compared to the individual tracks on an audio CD.

RGB Video: This is a new form of video signal that eliminates many of the artifacts of traditional composite video signals by splitting the signal into the three fundamental colors Red, Green and Blue (RGB). With an RGB connection (via SCART), you will see greater picture resolution and eliminate many picture imperfections such as the moiré patterns often seen on checkered patterned cloths. However, in order to benefit from RGB video, you must have a video display with an RGB compatible SCART input. Progressive scan: DVD offers progressive scan video outputs for use with compatible high-resolution televisions and projectors. Before DVD, no consumer medium could store, transmit or display video with full resolution.

To conserve bandwidth, analog compression (interlacing) is employed: first the odd-numbered lines of a frame are displayed, followed by the even-numbered lines. The result is that only half of the video image is drawn at one time; the viewer's brain must reassemble the complete image. This is acceptable, if the monitor is not too large and if there is not too much motion in the image. Large displays and fast-moving images reveal the limitations of this system. Thanks to DVD's immense data capacity, images are now stored intact (progressively), so that all the lines in each frame (odd and even) are shown at the same time. But because most TV's cannot handle a progressive signal, all current DVD players generate an interlaced output for compatibility. Now, the Harman Kardon DVD is among the select few DVD players with true progressive scan video output (NTSC and PAL) for use with compatible TV's and CRT projectors and with all plasma, LCD and DLP display devices via the component video output. The result is 40% greater light output than a conventional TV and a stunningly detailed high definition image, along with an almost complete absence of visible scanlines and motion artifacts. Of course, traditional Y/Pr/Pb component video, SCART, S-Video and composite video outputs are included for use with conventional televisions and projectors. Multiple Angle: DVDs have the capability to show up to four different views of the same scene in a program. When a disc is encoded with multiple-angle information, pressing the Angle button will enable you to switch between these different views. Note that at present, few discs take advantage of this capability and, when they do, the multiple-angle technology may only be present for short periods of time within the disc. Producers will usually insert some sort of icon or graphic in the picture to alert you to the availability of multiple viewing angles. Reading: This is a message that you will see after you've loaded the disc and the tray has closed. It refers to the fact that the player must first examine the contents of the disc to see if it is a CD or DVD, and then extract the information about the type of material on the disc, such as languages, aspect ratios, subtitles, number of titles and more.

positions in the indicator will show the running time of a DVD in play. When a CD is playing, these indicators will show the current track time, time remaining in the current track, or the total remaining time on the disc. NOTE: The Indicators NOE will also display text messages about the DVD's status, including Reading when a disc is loading, STANDBY when the unit is turned off, and Disc Error when a disc not compatible with the DVD is put into the play position. F Test Indicator: This indicator lights when the TV test screen is activated. G V-OFF Indicator: This indicator lights when the unit's video output has been turned off by pressing the V-OFF button on the remote control. H Repeat Indicators: These indicators light when any of the Repeat functions are in use. I VCD Playback Control Indicator: This indicator lights when the playback control function is turned on with VCDs. J Random Indicator: This indicator lights when the unit is in the Random Play mode. K A-B Repeat Indicator: This indicator lights when a specific passage for repeat playback has been selected.

L Program Indicator: This indicator lights when the programming functions are in use.

M Angle Indicator: This indicator blinks when alternative viewing angles are available on the DVD currently playing. N Title Indicators: These two positions in the display will show the current title number when a DVD disc is playing. O Chapter/Track Number Indicators: When a DVD disc is playing, these two positions in the display will show the current chapter. When a CD disc is playing they will show the current track number. P Source Indicators: These indicators will light to show which source is currently selected.

H Lights when the disc is in the Fast Search Forward mode. The on-screen banner display indicates the selected speed (2x, 8x, 16x, 100x). I Lights when the disc is paused. G Lights when the disc is in the Fast Search Reverse mode. The on-screen banner display indicates the selected speed (2x, 8x, 16x, 100x).

C Progressive Scan Indicator: This indicator lights when the unit sends out a progressive scan signal. D Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.



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FRONT PANEL DISPLAY 7 Rear Panel Connections B 0 2 4 C D 7 9 8 A 6 1 3 5 0 Composite Video Output 1 S-Video Output 2 Component Video Outputs 3 SCART TV Output 4 AC Power Cord 5 FM Antenna 6 Audio In 7 Subwoofer Output 8 Coaxial Digital Input 9 Optical Digital Input A Analog Audio Outputs B Front Speaker Outputs C Center Speaker Outputs D Surround Speaker Outputs 0 Composite Video Output: Connect this jack to the video input on a television or video projector. 1 S-Video Output: Connect this jack to the SVideo input on a television or video projector. 2 Component Video Outputs: These outputs carry the component video signals for connection to display monitors with component video inputs. For standard analog TV's or projectors with inputs marked Y/Pr/Pb or Y/Cr/Cb, connect these outputs to the corresponding inputs. If you have a high-definition television or projector that is compatible with high scan rate progressive video, connect these jacks to the "HD Component" inputs. Note that if you are using a progressive scan display device, then "Progressive" must be selected in the Video Set-up Menu in order to take advantage of the progressive scan circuitry. See page 16 for more information on progressive scan video. **IMPORTANT:** These jacks should NOT be connected to standard composite video inputs.

3 SCART OUT (TV): If your TV has a SCART socket, you can connect a SCART cable to your TV and to your DVD Player for improved video quality. The SCART cable carries both audio and video. You can select Composite Video or RGB video for that SCART connector's video output signal. 4 AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position. 5 FM Antenna: Connect to the supplied FM antenna. 6 Audio In: Connect to a line-level analog audio source: TV, tape player, Minidisc, PC, etc. 7 Subwoofer Output: Connect to the SUB/LFE input on the subwoofer. 8 Coaxial Digital Input: Connect the coax digital output from a DVD player, HDTV receiver, LD player, MD player, satellite receiver or CD player to this jack. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source.

Do not connect the RF digital output of an LD player to these jacks. 9 Optical Digital Input: Connect the optical digital output from a DVD player, HDTV receiver, LD player, MD player, satellite receiver or CD player to this jack. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. A Analog Audio Outputs: Connect these jacks to the analog audio input on a TV set or external audio system for analog audio playback or to the RECORD/INPUT jacks of an audio recorder for recording.

B 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 HS to the black (-) terminals on the speakers. See page 12 for more information on speaker polarity. C 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 HS to the black negative (-) terminal on your speaker. (See page 12 for more information on speaker polarity.) D 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 HS to the matching black negative (-) terminals for each surround speaker. (See page 12 for more information on speaker polarity.) Note: You'll find more details about all Audio/Video connections under Setup and Connections on the following pages.

8 REAR PANEL CONNECTIONS Remote Control 0 Power On 1 Power Off 2 Subtitle 3 Title 4 Angle 5 Audio 6 Enter 7 Open/Close 8 OSD 9 Arrows A Mute B Menu C Pause D Status E Skip/Step (Previous) F Skip/Step (Next) G Play H Search/Slow Reverse I STOP J Search/Slow Forward K Display L Pic +/-Pic M Zoom N Playlist O Random P A-B Repeat Q Volume (+ or -) R Player S Numeric Keys T Repeat U Clear V Radio W TV X AUX Y Digital In ENGLISH 0 V R T N K L 2 7 9 D 1 A W X Y O P Q 5 B 6 8 U S M 4 G H 3 E J I C F REMOTE CONTROL 9 Remote Control 0 Power On: Turns on the player when it is in standby mode (Harman Kardon logo appears on screen). 1 Power Off: Turns off the player to standby mode.

2 Subtitle: When a DVD is playing, press to select a subtitle language or to turn subtitles off. 3 Title: When a disc is playing, press to make the player go back to the first section of the disc. 4 Angle: Press to access various camera angles on a DVD (If the DVD contains multiple camera angles) or to rotate JPEG images. 5 Audio: Press to access various audio languages on a DVD (If the DVD contains multiple audio streams). 6 Enter: Press this button to activate a setting or option. 7 Open/Close: Press to open or close the disc tray. 8 OSD: Press to access the On Screen Display Menu. 9 Arrow buttons (M / N / K / L): Use to move the cursor in the OSD. A Mute: Mutes the sound. B Menu: Displays the actual DVD Disc Menu on the TV screen in play mode.

When playing discs with JPEG images, pressing this button will access the thumbnails. C Pause: Freezes a picture (with DVD/VCD) and pauses the playback signal (CD) when a disc is playing. Press again for normal playback. D Status: Press while a disc is playing to view banner display. Use the ARROW buttons to move through the different features in the Banner Display.

When a symbol is highlighted, press ENTER on the remote to select it. E Skip/Step (Previous): Press to go to beginning of current track. Press again quickly to go to beginning of previous track. After pressing the PAUSE button, each press of this button will move the image in reverse frame by frame. F Skip/Step (Next): Press to go to beginning of next track.

After pressing the PAUSE button, each press of this button will move the image forwards frame by frame. G Play: Begins to play disc (closes disc tray first, if it is open).



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H Search/Slow (Rev.): Allows you to search in reverse through a disc while it is in play mode. Each time you press this button, the search speed changes as indicated by a number of arrows on the right top of your screen. After pressing the PAUSE button, each press of this button will change the slow down speed indicated by a number of arrows in the right top of the screen. I Stop: Stops playing a disc. When a disc is playing, if you press STOP and PLAY, the disc will resume play, i.e. it will start from the same point on the disc where the unit was stopped.

If you press STOP twice and the PLAY button, the disc will start play from the beginning. J Search/Slow (Fwd.): Allows you to search forward through a disc while it is in play mode. Each time you press this button, the search speed changes as indicated by a number of arrows on the right top of your screen. After pressing the PAUSE button, each press of this button will change the slow down speed as indicated by a number of arrows in the right top of the screen. K Display: Press to change the brightness of the front panel display or to turn the display off completely in the following order: HALF BRIGHTNESS OFF FULL BRIGHTNESS HALF BRIGHTNESS. L Pic +/Pic -: Pressing these buttons in JPEG mode will move to the previous or next image. M Zoom: When a DVD or VCD is playing, press this button to zoom the picture so that it is enlarged. There are 4 steps to the zoom function, each progressively larger. Press through each of the zoom stages to return to a normal picture.

N Playlist: Press this button to change the playback order of the disc. O Random: Press for RANDOM playback in random order. P A-B: Press to select section A-B and to play repeatedly. Q Volume (+ or -): Increase/ decrease the master volume level. R Player: Selects the internal CD/DVD drive as input source.

S Numeric Keys: Select numbers by pressing these buttons. T Repeat: Press to go to the Repeat menu. You can repeat a chapter, track or the entire disc. U Clear: Press to remove the Banner menu from the screen. V Radio: Selects the internal FM radio as input source.

W TV: Selects the audio/video device connected to the SCART input as input source. X AUX: Selects the audio device connected to the AUX input as input source. Y Digital In: Selects the audio device connected to the digital audio input as input source. 10 REMOTE CONTROL Basic Information About This

Manual · The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this manual. In this event, follow the instructions given on the screen. This manual only covers basic disc operations. · For some operations, the icon may appear on the screen. This indicates that the operation described in this manual is not available on the disc in the player. · On-screen and front panel display illustrations in this manual are purely for the purposes of explanation.

The actual displays may differ slightly from these illustrations. Disc handling precautions · To keep the disc clean, handle the disc by its edge. Do not touch the surface. · Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc. Disc cleaning precautions · Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out. · Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs. Disc installing precautions · Do not install more than 1 disc on disc tray. · Do not place the disc on the tray up-side down.

· Do not try to close the disc tray when the disc is not installed and centered properly. Regional Coding DVD players and discs are designed with regional restrictions which dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number of your DVD player, you will not be able to play the disc. The message "REGION ERR" will appear in the front panel display. The region code of this player is indicated on the rear and on the external packaging.

· Do not expose the disc to direct sunlight or sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car. · After playing, store the disc in its case. · Do not write on the label side with a ball-point pen or other writing utensils. · Be careful not to drop or bend the disc. BASIC INFORMATION 11 ENGLISH 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.

Video Equipment Connections Video equipment is connected in the same manner as audio components. Again, the use of highquality interconnect cables is recommended to preserve signal quality. 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 front, center and surround speaker outputs BCD to the respective speakers. 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 8. However, most speakers will still use a red terminal for the positive (+) connection. Connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. 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 HS controller. 2. Connections to the subwoofer are made via a line level audio connection from the Subwoofer Output 7 to the line-level SUB input (purple) of the subwoofer. 3. Connect the supplied FM antenna to the FM (75 ohm) connection 5. 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.



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Connecting the TV and optional components NOTE: To be able to listen to the sound of a live TV show through the loudspeakers of your HS system you need a connection between the audio output of your TV and the HS controller: to achieve this when using the supplied SCART cable, you don't need to connect any additional wires the SCART cable transports audio and video signals in both directions. But when using the S-Video or composite jacks you need to connect the audio output of your TV set with the AUDIO IN jack 6 on the back of your HS controller. TV Connection (method 1) using SCART cable (included) To view the video from DVD discs on your TV set, connect the SCART TV Out jack 3 of the HS system to the SCART In jack of your TV set. The audio connection runs through the same cable (see note above).

television. If you are using a progressive scan television or projector, you must also change the Scan Type in the DVD player's Video Set-Up Menu from "Interlaced" to "Progressive". Connecting VCR and Sat Decoder (method 5 and 6) Diagrams 5 and 6 show possible connection methods for common system configurations. These are intended as guidelines only. Due to differences in equipment specifications, the method of connection of your equipment may be different to that shown.

Please consult the Owner's Manual of your equipment for further guidance. AUDIO OUT AUDIO OUT TV SET VCR AUDIO OUT AUDIO OUT TV SET VCR SATELLITE DECODER AUDIO OUT TV SET TV Connection (method 2) using S-Video cable (not included) If your TV set has an S-Video input jack you can connect your TV to the S-Video out jack 1 on the back of the HS controller. S-Video wires don't transport audio signals, thus you need an additional audio connection (see note above). Connecting Set-top Box or Digital Satellite Receiver (method 7) - using coaxial digital cable To listen to the digital multichannel downmix from Set-top boxes or digital satellite receivers, connect the Coaxial Digital Out 8 of your device to the Coaxial Digital In on the HS controller. S-VIDEO IN DIGITAL OUT AUDIO OUT TV SET TV connection (method 3) using composite video (cable not included) If your TV set has neither S-Video nor SCART input jacks, connect the Video Out jack 0 of the HS to the Video In jack of your TV set. The composite wire also doesn't transport audio signals, thus you need to make additional connections (see earlier note). Component Video Connection (method 4) If the video display has component video inputs, connect the Component Video Outputs 2 on the DVD to the corresponding input jacks on your Optional Audio Connections Aux Input for External Source You may connect a line-level stereo analog audio source such as a Sat receiver, tape deck, phono preamp of a record player, etc. to the controller's rear panel AUDIO IN Input 6 sockets to enjoy the benefits of your HS system with other source components. · VCR Connection-Audio (Cables Not Included). To listen to the sound from your stereo VCR through the speakers of this system, connect 12 INSTALLATION AND CONNECTIONS Installation and Connections the Left/Right audio output jacks of your stereo VCR to the Left/Right audio input jacks AUDIO IN 6 of this system.

· Audio Out Connections. To record the sound of the HS system with your VCR or any audio recording device (tape deck, MD, CDR and some others.) the Audio Out jacks A should be connected to the analog Record In jacks of the appropriate device. They can also be connected to any audio input on your TV to listen to the sound of your HS controller through the speakers of your TV only, when the amp in your subwoofer is turned off and the volume of the HS controller has been turned down completely. If the speakers of your HS system are active, the volume on your TV should be turned down. Connect the digital output of any digital sources such as an optional 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 89. the listening position. As with the side speakers, the center of the rear surrounds should face you. The speakers should be no more than 2 meters behind the rear of the seating area. Subwoofers produce largely nondirectional sound, so they may be placed almost anywhere in a room.

Actual placement should be based on room size. One method of finding the optimal location for a subwoofer is to begin by placing it in the front of the room, about 15cm from a wall, or near the front corner of the room. Another method is to temporarily place the subwoofer in the spot where you will normally sit, and then walk around the room until you find a spot where the subwoofer sounds best. Place the subwoofer in that spot. Center Front Speaker No more than 60cm Left Front Speaker Right Front Speaker A) Front Channel Speaker Installation with Direct-View TV Sets or Rear-Screen Projectors TV or Projection Screen Connecting the AC Power Notes · The Power Requirement is: AC 230V, 50 Hz.

· Connecting to power other than the one listed above may damage the system or cause abnormal operation. · Before connecting the AC power cord of this system to a wall outlet, connect the speakers and other component cables to the system. · Connect the AC power cord of the active subwoofer. · Connect the AC power cords of your TV and any optional components to a wall outlet. Once the speakers have been placed in the room and connected, the remaining steps are to program the system configuration memories.

Left Front Speaker Center Front Speaker Right Front Speaker Speaker Placement The placement of speakers in a multichannel home-theater system can have a noticeable impact on the quality of sound reproduced. Depending on your viewing device, place the center speaker either directly above or below your TV, or in the center behind a perforated front-projection screen. Once the center-channel speaker is installed, position the left-front and right-front speakers so that they are as far away from one another as the center-channel speaker is from the preferred listening position. Ideally, the front-channel speakers should be placed so that their tweeters are no more than 60cm above or below the tweeter in the center-channel speaker. Depending on the specifics of your room acoustics, you may find that imaging is improved by moving the front-left and front-right speakers slightly forward of the center-channel speaker. If possible, adjust all front loudspeakers so that they are aimed at ear height when you are seated in the listening position. Using these guidelines, you'll find that it takes some experimentation to find the correct location for the front speakers in your particular installation. Don't be afraid to move things around until the system sounds correct.



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Optimize your speakers so that audio transitions across the front of the room sound smooth. When the HS is used in 5.

1-channel operation, the preferred location for surround speakers is on the side walls of the room, at or slightly behind the listening position. Rear surround speakers may also be used in 5.1 channel mode as an alternative mounting position when it is not practical to place the main surround speakers at the sides of the room. Speakers may be placed on a rear wall, behind no more than 2m when rear-mounted speakers are used. Optional Rear-Wall Mounting First Turn On You are now ready to power up the HS 100 Controller to begin final adjustments. 1. Plug the Power Cable 4 into an unswitched AC outlet. Note that the Power Indicator 1 will turn orange, indicating that the unit is in the Standby mode. 2. Remove the protective plastic film from the main front-panel lens. If left in place, the film may affect the performance of your remote control.

3. 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. B) The distance between the left and right speakers should be equal to the distance from the seating position to the viewing screen. You may also experiment with placing the left and right speakers slightly forward of the center speaker.

Rear speaker mounting is an alternate location for 5.1 systems. 4. Turn the HS 100 on either by pressing the Power On/Off 1 or the Input Source Selector 4 on the front panel, or via the remote by pressing the Power On Button 0 on the remote. The Power Indicator 1 will turn blue to confirm that the unit is on, and the Main Information Display 0 will also light up.

INSTALLATION AND CONNECTIONS 13 ENGLISH Installation and Connections Basic Play Preparation 1. Switch the TV ON and select its video input connected to the HS Controller. 2. When you switch on the HS system controller, a Harman Kardon HS welcome image should appear on the screen. If that screen appears distorted or without color, change the appropriate settings at the Video Setting Submenu according to your TV set and to the connection used between the HS Controller and your TV. 3. If there is no picture at all, not even the Harman Kardon screen, check the setting of the video input used on your TV (most SCART inputs on TVs can be configured in the TV's menu). If this doesn't work, connect your TV with different cables to the HS Controller, e.g. via Composite (yellow jacks) or S-Video cables, rather than SCART to view the setup menus until all appropriate "Video menu" settings are made properly.

4. Press OPEN/CLOSE 27 to open the disc tray. 5. Place a disc on the disc tray. Hold the disc without touching either of its surfaces, position it with the side you wish to play facing down, align it with the guides, and place it in its proper position. - 3" (8 cm) discs or 5" (12 cm) discs can be used. 6. Press PLAY 3G. The disc tray is automatically closed and play begins. - When the disc tray is closed by pressing OPEN/CLOSE 27, play will start automatically.

· With most DVD's, a Disc Menu appears on the screen. Select specific menu item by using ARROW 9 buttons on the remote, then press ENTER 6. Disc Playback Features Skipping tracks or titles/chapters To move forward or backward through the tracks on a CD or the titles or chapters on a DVD, press Previous/Next 67EF. Fast Motion Playback/Fast Search 1. To move forward or backward through the DVD or CD disc being played at fast speed, press Search HJ on the remote.

Once one of these buttons is pressed, the fast search will continue until Play is pressed. There are four fast-play speeds. Each press of the Search Buttons will cycle to the next speed in the following order: 2x, 4x, 16x, 100x, indicated by a number of arrow indicators on the right top of the screen. 2. Press PLAY 3G at any time to resume normal playback.

Note that there will be no audio playback during fast-forward or -reverse play of DVD discs. This is normal for DVD, as surround processors cannot process the digital audio streams during fast-play modes; audio will be heard during fast-play of conventional CD's. Freeze Frame and Frame Advance (with DVD only) 1. Press PAUSE 3C when a DVD is playing to freeze the picture. 2. Each time you press one of the STEP (FWD or REV EF) buttons, the picture advances one frame in the selected direction. 3. Press PLAY 3G to resume normal playback. Slow Motion Playback (with DVD only) 1. When a DVD disc is in pause or freeze frame mode, you may move slowly forward or backward through the program being played at one of four speeds by pressing the SEARCH Buttons HJ on the remote.

Each press of the buttons will move to the next speed, indicated by a number of arrow indicators on the right top of the screen. 2. Press PLAY 3G to resume normal playback. Note that there will be no audio playback during slow-forward or -reverse play of DVD discs. This is normal for DVD, as surround processors cannot process the digital audio streams during slow modes. Slow play is not available for CD. Notes: Playback features may not be available during the opening credits of a movie. This is intended by the disc author and is not a failure of the HS Controller. Playback of a DVD with 96 kHz/24-bit audio requires the use of circuitry normally used for other features. Accordingly, Slow Play Reverse and Step Advance features are not available with these discs.

Depending on the structure of a VCD disc, the functions Slow Reverse and Step Reverse may be prohibited or have no function and Fast Playback (Search) may not function. Surround Mode One of the most important features of the HS 100 Controller is its ability to reproduce a full multichannel surround sound field from digital sources, analog matrix surround encoded programs and standard stereo programs. @@@@Surround modes and audio formats are selected using the remote. @@@@Pressing this button again de-activates the OSD. @@@@The RADIO Menu will show radio and RDS options.

The TV, AUX and DIGITAL Menus show the surround options for these specific audio inputs. @@Each Main Menu contains Submenus. These submenus are shown as icons on the left side of the menu. @@@@The default password is 8888. @@@@These additional steps allow for more critical control of program playback for all audiences.

Level 8: All DVDs can be played. Levels 7 to 2: DVDs for general audiences/ children can be played. Level 1: DVDs for children can be played; DVDs for adults/general audiences are prohibited. Follow the explanations on the screen to set a new password. Disc Setting Memory: When set to on, the next time a disc is inserted, I will show a "Disc Recognized" message, with the question if you would like to play the disc from the beginning or would like to resume from where you last stopped the disc. The memory can contain information of the last 100 discs played.



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PBC Support: Activates PBC (Play Back Control) Support for VCD discs. **Screen Save:** Activates a Screen Saver to prevent image "burn" in a video display device. If you connect the HS Controller to a LCD or plasma screen or video projector, we recommend you activate the screen saver at all times. **Show Angle Icon:** Determines whether the Angle Icon will appear on the screen when there are different angles available on a DVD disc.

Audio Settings (B) (C) (E) (D) The System Setting Submenu contains the following settings. Follow the explanations in the Upper Menu Line on the bottom of your screen to change the settings. **Display Language:** Sets the language in which the OSD menus are shown on your screen. **Preferred Subtitle Language:** Defines your preferred subtitle language. Every time a disc contains this subtitle language, it will be shown automatically. If you do not find your preferred language in the list of options, you can select your preferred language by typing a 4-digit code found in the code list on page 21. You can also set the preferred subtitle language to OFF. In that case no subtitles will be shown. **Panel Time-Out:** Sets the time-out interval for the Front Panel Information Display. After the selected time, the display will dim completely.

(A) Main Menu Line (B) Submenus The Audio Setting Submenu contains the following settings. Follow the explanations in the Upper Menu Line on the bottom of your screen to change the settings. **Preferred Audio Language:** Defines your preferred audio language. Every time a disc is played that contains this audio language, it will be activated automatically. If you do not find your preferred language in the list of options, you can select your preferred language by typing a 4-digit code found in the code list on page 21.

SYSTEM SETUP 15 ENGLISH System Setup **Dynamic Range:** This setting enables Dolby Digital recordings to be played back with full dialogue intelligibility while reducing peak levels. This smooth level compression prevents abrupt loud transitions from disturbing others without reducing the impact of the digital source perceptibly. **Delay Unit:** This setting sets the measuring unit for Delay in either Feet or Meter. **Tone Control:** Activates or De-activates the Bass and Treble settings. Once either the Bass or Treble Settings are changed, the Tone Control automatically switches to ON.

Bass Level: Sets the level of low frequencies. **Treble Level:** Sets the level of high frequencies. **DVD Sound Mode:** Sets the audio format of the DVD-disc playing (for other sources, see Surround Mode in each respective chapter). Once set to stereo, every surround format on a DVD will be converted to a pure stereo signal. @@This setting is recommended. Original will follow the surround format on the disc. @@@@The default settings of the DVD player is 0 dB for all channels. @@@@Follow the explanations in the Upper Menu Line on the bottom of your screen to make adjustments. **Delay** Due to the different distances between the listening position for the front channel speakers and the surround speakers, the amount of time it takes for sound to reach your ears from the front or surround speakers is different. You may compensate for this difference through the use of the delay settings to adjust the timing for the specific speaker placement and acoustic conditions in your listening room or home theater.

Measure the distance from the listening position to each of the individual loudspeakers. Once done, select per loudspeaker the distance that is closest to the one measured. **Output level adjustment** Output level adjustment is a key part of the configuration process for any surround sound product. **NOTE:** Listeners are often confused about the operation of the surround channels. While some assume that sound should always be coming 16 **SYSTEM SETUP** The Video Setting Submenu contains the following settings. Follow the explanations in the Upper Menu Line on the bottom of your screen to change the settings. **Aspect Ratio:** This step selects the TV aspect ratio, conventional screen shape (4:3) or widescreen (16:9), according to your TV. **TV Standard:** Sets the output video format i.e. NTSC or PAL, of the HS Controller.

If you have a multi standard TV, we recommend the AUTO setting for optimal picture quality. **Scan Type:** Sets the component video output to Interlace or Progressive. Before changing the setting to Progressive, make sure that your video display connected to the component output is capable of handling progressive scan signals. As soon as you select progressive scan the scan type, the Video Output will automatically change to Component. All other outputs, composite video on cinch, SCART and S-Video, will be kept Interlaced.

The interlaced composite and S-Video outputs remain active for connection to a second (interlaced) video display. **Video Output:** Sets the video output type to Scart or Component. Scart will be used for most TV's. Component will be used for most LCD, Plasma and projectors. **Scart Output:** Selects which kind of video output signals will be routed over the scart.

RGB will be used for most TV's as it provides the best picture quality. **Test Screen** Test Screen When you activate the Test Screen via the OSD you can activate a still image to test all settings and the video performance of your TV. With the vertical color bars you can test the following: · proper color intensity on your TV, · the proper color of each bar, showing if the proper video standard is turned on: the colors should be (left to right): black, white, yellow, cyan (turquoise), green, magenta (purple), red, blue, black. · proper color transition, seen as sharp separation of the bars, S-Video will be better than Video, RGB best of all. · the performance of the color filter in your TV (with "Video" signals), bar edges should show no vertical crawling dots. Here S-Video and RGB formats usually give no problems. With the gray scale and the black/white fields below the color bars the brightness and contrast of your screen can be adjusted optimally, see "TV Picture Adjustment" below. **TV Picture Adjustment with Test Screen** These adjustments may be done now, but you can also make them after setup has been finalized. **Brightness adjustment:** 1. Turn down the color control on your TV until the color bars are visible in black and white.

2. Adjust the contrast to the lowest level where you still can see all bars within the grey scale in the test picture separately and clearly. 3. Adjust the Brightness so that the bars in the gray scale are all visible. The bar furthest to the left has to be as black as possible rather than gray but the next must be clearly distinguishable. All the bars in the gray scale have to be gradually and evenly changing from black to whiter, from left to right. **Contrast adjustment:** 1. Adjust the contrast on your TV until you see a bright white bar in the lower right corner of the screen and a deep dark black bar at the left. The optimal contrast setting will depend on your preference and the surrounding light in the TV room.



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If the brightness of the white bar does not increase while turning up the contrast or when the borders of the white letters on top bloom (overlight) into the black areas, drastically decreasing the sharpness of the script, then the Contrast has been turned up too much. Reduce the contrast until these effects disappear and the video still looks realistic. 3. If you are watching TV in daylight, adjust the Contrast so that a normal video picture has about the same look as the surroundings in your room. This relaxes the eye when watching the TV picture.

This contrast setting may be reduced when the surrounding light is dimmed, usually improving sharpness. 4. The gray scale in the middle line needs to have the same clear difference between each bar as before the contrast adjustment. If not, go back to the brightness adjustment and repeat step 3 and then the contrast adjustments, making only minor adjustments each time for optimisation. Color adjustment.

1. When Brightness and Contrast are set optimally, turn up the color control. Adjust to the level where the colors look strong but still natural, not overdone. If the color level is too high, depending on the TV used some of the bars will seem wider or the color intensity will not increase when the control is turned up. Then the color control must be reduced again. At the end you should test the color intensity also with a video, e.g. pictures of natural faces, flowers, fruit and vegetables and other well known natural articles for an optimal setting of the color intensity. 2. If your TV has a Tint option (with most European TVs this is available or effective only with NTSC signals, not with PAL), use the large white bar below the Grayscale to tweak the warmth of the picture.

Every viewer has a difference in preference. Some prefer a little colder picture, some a warmer glow. The Tint function on your TV and the white bar can be used to control this. Adjust the Tint to the level where you feel the white color has the tone you prefer. Color Bars Grey Scale 100% Black/ White fields TEST SCREEN 17 ENGLISH Player/Radio Menu Using the Status Bar Menu The on-screen Status Bar contains many playback features. To see the Status Banner Menu, press STATUS D on the remote control while a disc is playing. Use the ARROW 9 buttons on the remote to move through the different features in the Status Bar. When a feature is highlighted, press ENTER 6 on the remote to select it and to change it with the help of the options listed on the screen. Press ENTER 6 to activate the change. Title: The number shown indicates the number of the title that is currently playing.

Chapter: The number shown indicates the number of the chapter that is currently playing on a disc. Time: This item displays the time in DVD mode. To change the Time mode, first move the cursor to the TIME. The current mode will be highlighted. Press ENTER and the ARROW button to activate: Title Elapsed, Title Remaining, Chapter Elapsed, Chapter Remaining.

Depending on the choice made, the bar will show a graphic view on where the disc is currently playing. Subtitle: Shows the subtitle of the disc currently playing. In the PLAYER Menu, the chapter, track or picture currently playing will be marked with an arrow symbol in front of the Chapter (DVD), Track (CD, MP3, WMA) or Picture (JPEG). Chapters, tracks and pictures can be selected from this list at any time by moving the cursor to the desired chapter or track and pressing ENTER 6 to confirm. The top part of this screen can be de-activated to show the complete Track list on the screen.

To de-activate, move the cursor to the upper INFO (or i INFO) Submenu on the left side of the screen. Press ENTER 6 until the icon is highlighted in light blue and the full Track list is visible on the screen. In the same way the Disc list can be removed from the screen by deactivating the PROGRAM Submenu. When the HS 100 is in play mode, pressing the PLAY button on the remote control will highlight the track being played. playlist is complete. Once completed, move the cursor up to the Playlist setting. Select Programmed order from the options and press PLAY to start the playback. Information Displays PLAYER Menu If you have a disc that contains both MP3 files and JPEG images, you can choose to run these simultaneously, mixing the MP3 audio with your own images. The time interval can be chosen in the Picture Setting. Also you can have the image files follow the audio signal: at the end of each audio track, the next JPEG image will be shown.

With such discs, you can also either listen to the MP3 audio or watch the JPEG video files only. In order to do so, click on the AUDIO or PICTURE icons on the left part of the screen to select or deselect the desired format. Once done, the tracklist will only show the MP3 or JPEG files. Radio Menu The FM Tuner in the HS 100 can be used to listen to the Radio. Before listening to the radio stations, you need to preset your favorite stations. The easiest way to do so is with the OSD screen on your monitor. 1. Press the ON button 0 on the remote control to turn the DVD Receiver on. Make sure that the Main Power Switch on the front panel is in the On position, shown by the blue LED surrounding the button. Also make sure that your video monitor connected to the HS 100 is switched on.

2. Press the RADIO button V on the remote control or SOURCE 4 on the front panel repeatedly, to select the FM Radio. The TV monitor will show the RADIO Menu, as shown below. You can also select the RADIO Menu with the ARROW 9 keys on the remote control. Once the RADIO tab is highlighted, press ENTER 6 to access the RADIO Menu.

Once all the settings have been made, you are ready to enjoy your HS 100. Once you have inserted a disc into the drawer you can explore the PLAYER Menu. This menu hosts all playback and program features, as well as all disc information. As you will see, the layout of this menu is comparable to the SET-UP Menu. The functionality is the same too.

The Submenus are shown on the left side of the screen, with INFO and PROGRAM activated by default. As in the SET-UP Menu, settings can be highlighted with the ARROW 9 buttons and selected with the ENTER 6 button on the remote control. Options for the settings are shown in the Lower Menu Line on the bottom of the screen. Disc: Shows the name of the disc given by the artist. Audio: Shows the audio track that is currently playing. Options are shown on both Menu Lines on the bottom of the screen. Playlist: Sets the order in which the current disc is played back. Repeat: Sets the repeat mode. Random: Activates Random Playback when possible. 18 PLAYER/RADIO MENU In DVD and MP3 mode, activating the DISC INFO (DVD) or ID3 INFO (MP3) Submenu will show information about the player and the disc currently playing.

The first lines will show Disc Name and Disc ID. Below you can compare the Aspect Ratio, Video Standard and Scan Type available on the disc with the actual output of your player or ID3 info for MP3 files. In the lower part of the screen the Audio Resolution and Audio Format are shown, (DVD only) and at the bottom a graphical presentation of the Video Bit Rate (DVD only) and the Audio Bit Rate of the disc currently playing.



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Programmed Play In STOP mode, the Disc List can be used to create your own program list for DVD, CD, MP3, WMA or JPEG discs. Move the cursor to the right of the menu, into the Disc List. If the disc list is not active, move the cursor to the PROGRAM icon on the left to activate. Move the cursor to the Disc List, and select clear to clear the current list. Once the disc list is clear move the cursor up or down to the first track you would like to program and press ENTER 6. The cursor will move to the options in the Lower Menu Line. You can either add the selected track (or picture) to the playlist or give it the number you would like it to have in your playlist, or clear the track from the list.

Move the cursor down to the next track you would like to program and continue until your Player/Radio Menu The RADIO Menu shows the selected Audio mode, the name of a station currently played (as long as RDS is available) and a Station list listing the 30 stations with their preset, station name and frequency. Note: The stations can be preset automatically or manually. The Manual Preset mode is described first. The Auto Preset mode is described on the next page. 3.

The RDS and AUTO Tune functions are switched on by default, shown by the dark blue icons, to make the process of tuning your favorite stations as easy as possible. Move the cursor to the end of the first station line in the menu. The frequency will be highlighted and a brief explanation will appear in the Upper Menu Line on the bottom of the menu. NOTE: Both RDS and AUTO Tune functions can be switched off by moving the cursor button to the icon at the left side of the menu and pressing the Enter Button on the remote control so that it turns light blue. 4.

Pressing the search H / G button HJ will scan the FM band for the first available radio station with acceptable reception. The scan will stop once a station is found and the name of the station will be displayed (as long as RDS is transmitted by the station). The station will be stored automatically on the current preset. If you know the frequency of your station, you can also tune the frequency directly with the help of the numeric keys of the remote control. Move the cursor to the end of the station line and press the frequency with the numeric keys. Press Enter 6 twice to store. 5. Move the cursor to the next station line in the menu. Follow the directions in step 3 and in the Upper Menu Line to store all your radio stations in the tuner's memory. Rearranging the station list Once all the stations have been stored in the memory, you can rearrange the station list, putting your favorite stations on top of the list.

1. Move the cursor in the left column in the station list to the first station you would like to rearrange. 2. Press Enter 6 to activate the current station. The cursor will move to the Lower Menu Line of the screen. 3. Select the desired preset from the list by moving the cursor right or left. Press Enter 6 to activate the change. The cursor will move back to the new station line. 4.

Repeat step 3 until all radio stations have been rearranged according to your preferences. Selecting presets Once rearranged, presets can be chosen at any time by pressing the numeric key corresponding to the preset you would like to listen to. Depending on whether the RDS function is active, the station name will show on the front panel Information Display. Pressing the Previous/Next N/M Button EF will select the next radio station. Presets can also be chosen in the Radio Menu.

Move the cursor to the preset you would like to listen to and press Enter 6 to activate. An arrow in front of the preset will light to show the active radio station. The cursor can be moved around the menu without changing the current radio station. Pressing the Previous/Next N/M Button EF at any position in the menu will select the next radio station, that is for instance from preset 3 to preset 4, even if the cursor is highlighting preset 11. Pressing the Play button will always return the cursor to the current station played, no matter where it was previously (even when another menu is open).

Removing presets If you wish to remove presets from your preset list, follow the steps below. 1. Move the cursor in the left column in the station list to the preset you would like to remove. 2. Press Enter 6 to activate the current station. The cursor will move to the Lower Menu Line of the screen. 3. Select Remove from the list and press Enter 6. The cursor will move back to the original station line. 4.

Repeat step 3 until all radio stations you would like to delete have been removed. RDS Station ID With the help of RDS (Radio Data System) you can show the name of the station you are currently listening to as well as the station names of all other presets. The RDS function is set to active by default, shown by the dark blue RDS icon at the left of the menu. In this mode, all station names will be visible both on the OSD menu as well as on the Information Display on the front panel. If the RDS function on the left side of the menu is inactive (light blue), you will only see the frequency of the current preset shown in the menu and on the front panel display. The Station Name line on top of the menu will disappear, but the name of all other stations preset will keep in the list. Pressing STATUS D on the remote will change the front panels display's indication from the frequency to the name of an RDS station or vice versa. Surround Mode for Tuner As with all other inputs of the HS 100, you can also select your preferred surround mode when listening to the radio. The actual surround mode is listed on the first line of the tuner menu. Follow the steps below to change the surround format: 1.

Move the cursor to the AUDIO line on the top of the tuner menu. The actual surround format will be highlighted. Press Enter 6 to activate the possible surround formats. These will be shown in the bottom line of the menu. 2.

Move the cursor right or left, until the desired surround format is highlighted. 3. Press Enter 6 to activate the change. The setting will apply to all tuner presets. Note: Like with all other inputs of the HS 100 the Audio mode can easily be selected by pressing the AUDIO button 5 on the remote repeatedly until the desired surround mode appears in the first line of the OSD menu.

Auto Preset function When the cursor is moved to Pre-Set on top of the preset numbers you can activate the Auto Preset function, clear the complete frequency list or restore all default frequencies set by the factory. When the Auto Preset is selected the tuner will scan the full FM range and store all stations with acceptable reception one after another on the presets. The frequency scanned will appear on the left lower side of the menu while the frequency of each station stored will be shown on the right side of the list. When the complete FM range is scanned or all presets (30) are loaded with stations the scan will stop and the first preset be selected. You also can stop the scan at any time by pressing the STOP button I.



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