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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON HD 750. You'll find the answers to all your questions on the HARMAN KARDON HD 750 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 HD 750
User guide HARMAN KARDON HD 750
Operating instructions HARMAN KARDON HD 750
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Technical Specifications

Signal Format	
Sampling Frequency	44.1kHz
HD/CD Processing	8x8 Bit Brown PCM 17.32
D/A Conversion	Multi-Level Delta-Sigma
Oversampling	8 Times (Digital Filter)
Discrete Analog Output Section	
Error Correction	CRC System
Frequency Response	20 Hz - 20 kHz ±0.1dB
Total Harmonic Distortion (THD)	<0.006% @ 1kHz
Dynamic Range	96 dB
Signal-to-Noise Ratio	98 dB
Channel Separation	90 dB
Line-Output Level	1.0V, 2.0V with HD/CD
General	
Power Requirement	230V/50 Hz
Power Consumption	<10Watts (On)
Dimensions	
Height	110mm (5.1")
Width	440mm (17.3")
Depth	325mm (12.8")
Weight	4.4 kg

Depth measurement includes knobs, buttons and connection jacks.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

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Manual abstract:

All features and specifications are subject to change without notice. @@@@EXAMPLE (bold type) indicates a specific remote control or front panel button, or rear panel connection jack. EXAMPLE (bold type) indicates a message in the front panel information display. 1 (number in a square) indicates a specific front panel control. a (number in an oval) indicates a button or indicator on the remote. @@HD750 CD player. @@@@@@If you have any questions about this product, its installation or operation, please contact your dealer, as they are your best source of local information. Description and Features s Digital Output for Direct Connection to Outboard Digital-to-Analog Converters s Sophisticated Programming Features to Automatically Play Tracks in Preprogrammed or Random Order s Intro Search to Automatically Scan a Brief Portion of Each Track to Quickly Locate Your Favorite Selections s 1) , Decoding Provides Superior Reproduction of All CDs, Whether HDCDEncoded or Not. When HDCD-Encoded Discs Are Played, Special Circuitry Reveals Detail and Fidelity Not Possible in Ordinary CDs s Full compatibility with CD-R and CD-RW for® mat to play (finalized) recordable and erasable discs without problems. CLASS 1 LASER PRODUCT @@HDCD System manufactured under license from Pacific Microsonics, Inc.

1) ® INTRODUCTION 3 Information Important Safety Information Verify Line Voltage Before Use Your HD750 has been designed for use with 230-volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard, and may damage the unit. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet. Do Not Use Extension Cords 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 cords meeting factory specifications. Handle The AC Power Cord Gently When disconnecting the power cord from an AC outlet always pull the plug, never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet. Do Not Open The Cabinet There are no user-serviceable components inside this product.

Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee.

If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service station. CAUTION: The HD750 uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read this owner's manual carefully and retain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service station. Refer servicing to qualified personnel only. Installation Location s 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. s Unpacking The carton and shipping materials used to protect your new HD750 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 down to a more twodimensional appearance. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag. If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center. 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. 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. s s s 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, 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. 4 INFORMATION Front-Panel Controls ^3 % 9!)8 4 5 12 1 2 3 4 5 6 # @ 7 Skip Buttons 8 Program Button 9 Intro Button) Random Button ! Repeat Button @ Headphones Level \$ 6 7 Power Switch Status Mode Indicator Remote Sensor Window Play/Pause Button Stop Search Buttons # Headphones Jack \$ Open/Close % Information Display ^ HDCD Indicator 1 Power Switch: Press this switch to apply power to the HD750.

Then the Status Mode Indicator light 2 surrounding the switch will turn green. Note that the unit may also be turned on by pressing any other button on the front panel or remote control. Press the Power Switch 1. 2 Status Mode Indicator: When the HD750 is in the ON mode, this indicator will glow green. When the unit has been placed in the Standby mode by pressing the Power Switch 1 on the front or the Off button 0 on the remote, the display will read STANDBY for a moment, then the indicator will glow orange, indicating that the unit is still connected to the AC main supply and is ready to be turned on. 3 Remote Sensor Window: The sensor behind this window receives commands from the remote control. Keep this area clear if you wish to use the HD750 with a remote control. 4 Play/Pause Button: Press this button to start the playback of a CD. @@When a disc is playing press this button once to momentarily stop a disc. When the button is pressed again, the disc will resume play at the point it was stopped.

5 Stop Button: Press this button to stop the disc currently being played. During programming functions, this button is also used to exit the program mode (see page 13).



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6 Search Buttons: Press one of these buttons to search forward -- or backwards , through a disc to locate a particular portion of the selection. Holding the buttons pressed will increase the search speed after 3 seconds (see page 12). 7 Skip Buttons: Press one of these buttons to move to the next track fl-, or to move back to the same or previous track fi (see page 12). 8 Program Button: This button is used to program the playback of a disc in a particular order. (See page 13 for complete instructions on programming the HD750.) 9 Intro Button: Press this button to put the HD750 in the Intro Scan mode. When you press the button, the unit will play the first 10 seconds of each track on the disc, and then move to the next track. Press the button again to defeat the function and continue full play of the current track.

(See page 12 for more information.)) Random Button: Press this button to have all of the tracks played in a random order. (See page 10 for more information.) ! Repeat Button: Press this button once to repeat only the track currently being played. Press it again to continually repeat all tracks on a disc. (See page 14 for more information.) @ Headphones Level: Turn this knob to increase or decrease the volume level for headphones connected to the HD750's Headphones Jack #. @@@@ \$ Open/Close: Press this button to open or close the disc drawer. @@@@ @@@@ @@@@ Important Note: @@@@ @@@@ @@@@ 9 Play Button: Press this button to start the playback of a CD. @@@@ A Stop: Press this button to stop the disc currently being played or to escape from the program mode (see page 13 for complete information).

B Pause Button: Press this button once to momentarily stop a disc. When the button is pressed again, the disc will resume play at the point it was stopped. C Random Button: Press this button to have all of the tracks played in a random order. (See page 10 for more information.) D Time Button: Press this button to select the time display. In normal operation, the display will show the running time of a track being played. Press the button once to check the time remaining for the track in play. Press the button a third time to view the total play time remaining for the disc in play (See page 11). E Check Button: Press this button to check the order of tracks programmed into the HD750's memory. (See page 13 for complete information on programming the HD750.

) F Open/Close: Press this button to open or close the disc drawer. The drawer may also be closed by pressing the Play button 4 9, or by gently pressing the edge of the drawer. @ @G Display Button: Press this button once to dim the front panel display to half brightness. Press it again to turn the display lights off completely. Another press will return the display to normal brightness. 8 REMOTE CONTROL FUNCTIONS Installation To prevent possible damage to your speakers and other components in your audio system, it is important that ALL components, including the HD750 and your receiver or preamp and amplifiers, are turned off and unplugged from their AC power source when installing any new component. Connecting the HD750 to your audio system is simple. Using standard RCA-to-RCA interconnect cords, connect the left and right Audio Output jacks TM on the rear panel to the CD input jacks on your receiver, surround processor or preamplifier. If your system includes an optional external digital-to-analog converter, or if you are using a receiver or other processor that has the capability to decode PCM digital input signals, connect the Digital Output jack ; to the Coaxial Digital input on the decoder. Make certain to use a coaxial-style interconnect cable, as standard audio cables will not perform as well.

Install two AA batteries by turning the remote over so that you'll close when the unit is placed in the Standby mode. This ensures that the unit will not be harmed from dust, dirt or inadvertent damage to the drawer mechanism. Note that the unit is not removed from AC main power when it is in the Standby mode but its power consumption is reduced to a low value. To remove the AC power completely from the unit its Power Cord must be plugged into a switch controlled AC outlet that is turned off. We recommend to use the switched AC outlet on the rear side of a receiver or amplifier.

When that AC outlet will be turned on, the HD750 will always turn to the Standby mode even if it was on before the AC power was removed. ® Headphone Listening You may listen to the output of the HD750 through headphones by plugging a set of standard headphones with a 6,3 mm headphone plug into the front panel Headphones Jack #. The volume of the headphone output may be adjusted with the Headphones Level knob @. @@@@ @@@@ @@@@ No special adjustment is required to play an HDCD disc. @@@@ @@@@ @@@@ Press it again to turn the display off.

@ @ In normal operation the display will show the total running time of a CD after the disc is first put in the unit. When the disc is played, the display will show the running time of a track in play. Each time the track changes, the time display will reset to and begin to increase again as the new track plays. To view the time remaining on an individual track, press the Time button D on the remote once. The display will now show the time left in the track in play, and a "-" will light in front of the time display as a reminder of the display's status. To view the total time remaining to play on the disc, press the Time button again, a number greater than the formerly shown track remaining time (except the last track of the disc is played) will appear in the display, again with a "-" in front. When the Time button is pressed again the display will return to show the running time of the track in play. Note: When a program is played (see page 13), all time modes are selectable too except the total time remaining on the disc. OPERATION 11 Operation Search If you wish to quickly scan through a disc to locate a particular passage or program, press the Search buttons 6 8. The Forward Search button -- plays the disc forward in high speed, while the Reverse Search button , plays the disc backwards in high speed.

Holding the buttons pressed will tripple the search speed after 3 seconds. When the desired part of the disc is heard, release the Search button to resume normal play speed. Skip To move from one track on the disc to another during play mode, press one of the Skip buttons 7 7. Pressing the Forward Skip button fl- will move you forwards through the disc, one track at a time, while pressing the Reverse Skip button fi once will move you back to the start of the actual track (as long as >1 second of the track has elapsed) and pressing it multiple times will move you back one track at a time. Holding any Skip button pressed will fastly scan through all tracks on the disc. The Skip buttons may be used when the HD750 is either playing or stopped. If the unit is stopped, the Skip buttons may be used to locate the first track to be played.



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The Play button 4 9 must be pressed to begin play. If the Skip buttons are used while the unit is already playing (as described above), the audio output will stop while the new track is located, and play will automatically resume after the Skip button is released. If the Skip buttons are pressed when program play is in use (see page 13), the unit will move from one programmed track to another.

Intro Search This feature lets you locate a track by playing the first 10 seconds of each track, up from the track playing or selected actually. When the Intro button 9 on the front panel is pressed, the unit will play only 10 seconds of each track, and then automatically move to the next track. When you have reached a track that you wish to listen to in its entirety, press the Intro button again to resume normal operation. When the Intro feature is activated, the INTRO indicator will illuminate in the Information Display % to remind you that Intro Search is in use. 12 OPERATION Programmed Play Operation The HD750's advanced programming capability enables you to select certain tracks, to preset the order in which these tracks play, and to clear specific programmed tracks after the program was made.

Once a program list has been entered, press the Play button 4 9 to begin listening to the sequence. After the entire program has been played, the HD750 will stop. As long as the Stop button 5 A has not been pressed twice and the PROGRAM indicator remains lit, you may repeat the programmed-play sequence again by pressing the Play button 4 9. A program can be edited even after it was completed by pressing the Stop button 5 A once: Each time you press the Program button 8 3 the track number and program step number will be displayed in the programmed order, but with steady tracks numbers (not blinking) in contrast to the programming mode. As soon as the track number starts blinking, the appropriate program step number shown at the right side is not programmed yet; now you can change the track number with the Skip buttons 7 7 or the Numeric buttons 2 as described above and add it to the program list by pressing the Program button 8 3.

Pressing the Stop button 5 A twice will return to normal mode and the PROGRAM indicator will go out, but the program will stay in memory and can be recalled easily by pressing the Program button. But pressing the Clear button 4 (see below) or opening the disc drawer by pressing Open/Close \$F, will erase the program information from the unit's memory. **Clearing Programs** To clear a single track from the program list, press the Program button 8 3 until the track to be deleted from the program sequence appears in the Information Display %. When the track number appears, press the Clear 4 once, the track selected will be deleted and the track number will be replaced by the next programmed one. Now you can delete that track too with the Clear button or press the Stop button 5 A and again the Program 8 3 button to select lower track numbers to be deleted. When the unit is stopped and the program step indication P - 01 is not lit (otherwise press Stop once), but the PROGRAM indicator is still lit (otherwise press Program 8 3) you may clear the entire contents of a program by pressing the Clear button 4. **Important Note:** When you've pressed the Program button 8 3 (once or several times) and the track number on the left starts blinking, the appropriate program step number (e.g. P - 08) shown at the right display side is not programmed yet. Do not continue to press the Program button now, otherwise the track selected will be memorized too.

If you're in doubt, press Stop button 5 A and start the procedure again with Program 8 3. **IMPORTANT NOTE:** Tracks programmed as described above in chapter "Programmed Play" can be played repeatedly too: When you press Repeat ! @@@@ To begin programming the HD750, press the Program button 8 3. @@ This indicates that you are about to program the first track. @@ To select a track on the disc, press the Numeric buttons 2 corresponding to the desired track, be certain to enter the second number of two digit numbers within two seconds after the first number was entered. You may also use the Skip buttons 7 7 to select a track. When the track is selected, press the Program button 8 3. Note that the program-step indication on the right side of the Information Display will change to P-02. You may now select another track for the next program step, following the instruction shown above. When the track is selected, press the Program button 8 3 again. Repeat this procedure for each program step until you have completed the desired programming.

@@@@@once. When the unit is in Stop mode, press Repeat once, select the track to be repeated with the Skip or Numeric buttons as described on page 10, and press Play 4 9. The REPEAT and 1 indicators will light and the track will continue to play over and over again continuously. If the track is changed by pressing the Skip buttons 7 7 while the Repeat function is in use, the newly selected track will be repeated. To stop the repeat play, press the Stop button 5 A or press the Repeat button \$ 5 until the REPEAT indicator goes out.

Repeat All Tracks To repeat all of the tracks on a disc, press the Repeat button 5 \$ until the REPEAT and ALL indicators light up. When you see these indicators, the entire disc or all programmed tracks will play through to the end, and then start again from the beginning. The disc will play continually until the Stop button 5 A is pressed. **Repeat AB** The HD750 may be programmed to repeat any section within a track, or a complete passage or program that includes material in a series of tracks. To program the unit for AB play, first locate the point on the disc where you wish to begin the repeated section. At that point, press the Repeat AB button 6. The REPEAT indicators will light in the Information Display and an A indicator to show that the program process has started. Let the disc continue to play or press the Search -- button 6 8 or Skip fl. button 7 7 on the front or remote until you have reached the end of the section to be repeated. When the end point is reached, press the Repeat AB button 6 again. Note that the REPEAT and AB indicators will now be illuminated. Once the Repeat AB button 6 is pressed for the second time to complete the programming, the HD750 will automatically go to the beginning of the selected passage and continue to play the section over and over. To resume normal play press the Repeat AB button 6 again. The REPEAT and AB indicators will go out, and the rest of the disc will play normally. **IMPORTANT Note:** Tracks programmed as described before in chapter "Programmed Play" can be repeated too: When you press Repeat ! 6 once after a program is created (the PROGRAM indicator must be lit, otherwise press Program) and the program step indication P - 01 is not lit (otherwise press Stop once), the REPEAT 1 indicator will light and the track currently selected or playing will be repeated continuously.



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If Repeat is pressed twice REPEAT ALL will be displayed, all programmed tracks will be played subsequently and the sequence will be repeated continuously until Stop is pressed.

14 REPEAT PLAY OPERATION Troubleshooting Guide TROUBLE SHOOTING GUIDE SYMPTOM No lights on Front Panel Remote does not appear to operate CAUSE · No AC power · Power Switch turned off · Weak batteries · Blocked sensor · Disc upside down · Poor connections · Wrong source connected Sound skips or stutters during play Sound is continually distorted · Disc may be damaged · Surface vibrations · Incorrect input SOLUTION · Make certain AC power cord is plugged into a live outlet. · Turn on Power Switch. · Install fresh batteries, observing polarity indications. · Remove obstructions from the front panel sensor or connect a remote sensor to the Remote In jack on the rear panel. · Reload disc with label side facing up. · Make certain connections are secure and made to the correct (e.g., CD) input. · Select CD source on receiver or preamp. · Try another disc. · Isolate the unit from vibration by placing it on a firm surface or move it further away from speakers. · Make certain that the analog Audio Outputs TM of the HD750 are connected to a line level audio input, NOT to a digital audio or phono input. · Turn the unit off and on again. If the problem persists, turn the AC power to the HD750 off and on. Front panel lights, but CD does not play Play indicator lights, but no sound is heard ERROR lights up continuously in the display · Various TROUBLESHOOTING GUIDE 15 .



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