



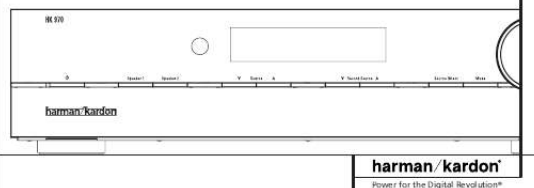
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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON HK 970. You'll find the answers to all your questions on the HARMAN KARDON HK 970 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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HK 970 Integrated Amplifier

OWNER'S MANUAL



harman/kardon
Power for the Digital Revolution®



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Manual abstract:

In order to obtain the best performance from this integrated amplifier, please be sure to read this owner's manual and use your integrated amplifier only in accordance with its instructions. The special features of this unit include: HCC (High Instantaneous Current Capability) The amplifier sections react rapidly to musical transients, providing the instantaneous current necessary to precisely drive and control nearly any loudspeaker system. Ultrawide Bandwidth The bandwidth of this unit is exceptionally wide and is independent of negative feedback. This improves transient accuracy and phase linearity. Low Negative Feedback This unit has been designed to have low distortion and wide bandwidth without high negative feedback. This further improves its dynamic accuracy.

@@@Sophisticated Electronic Protection Circuitry Harman Kardon's unique protection circuitry guards the amplifier from short circuit or damaged speakers and wires, without impairing sound quality by the use of current limiting or output relays. General instructions Always Use at 230V AC This unit is designed for operation with 230VAC. Use only domestic AC outlets. Connecting the unit to an outlet supplying a higher voltage may create a fire hazard. Handle the Power Cord Gently Do not disconnect the plug from the AC outlet by pulling the cord; always pull the plug itself. Pulling the cord may damage it. @@@@Also do not tie a knot in the power cord. @@Place of installation Place the unit on a firm and level surface. Avoid installing your unit under the following conditions: 1 Moist or humid places.

1 Places exposed to direct sunlight or close to heating equipment. 1 Extremely cold locations. 1 Places subject to excessive vibration or dust. 1 Poorly ventilated places. Provide sufficient ventilation, do not block ventilation openings.

Do not obstruct the ventilation slots on the top surface of the unit by placing objects on them. Otherwise, the temperature inside the unit may rise, possibly affecting its long-term reliability. To ensure sufficient ventilation, the product should be placed in an open area with free air flow. Do not place a CD player or other equipment on top of the amplifier. Do not expose the amplifier to dripping or splashing. Do not place objects filled with liquids, such as vases, on or near the amplifier. Moving the Unit Before moving the unit, be sure to pull out the power cord from the AC outlet and disconnect the interconnection cords with other units. @@@@Cleaning If the unit gets dirty, wipe it with a soft dry cloth. @@@@Warning Signs If you detect an abnormal smell or smoke, immediately turn the amplifier off and unplug the power cord. Contact your dealer or nearest Harman Kardon service center.

Packaging Save all packing material. It is essential for shipping, should you move, or in the event the unit ever needs repair. INTRODUCTION 3 Connections Speaker System 1 Right channel Record Player Cassette Tape Deck CD Recorder Speaker System 1 Left channel To wall outlet Right channel Speaker System 2 Left channel Speaker System 2 External Power Amp Video Player 2 Video Player 1 Tuner Compact Disc Player Connecting Other Components 1. Make sure your amplifier and other components are turned off. 2. Connect each component's Output/Play jacks to the corresponding Input jacks on the back of your amplifier and, if available, the component's Input/Record jacks to the Output jacks of the HK 970. Use the white, black or gray plugs to connect Left channel jacks; use the red plugs for Right channel jacks. 3. A record player with MM cartridge must be connected to the Phono Input jacks and a separate ground wire to the ground terminal screw above. Wired Remote Control To control your amplifier with an external infrared remote sensor, connect the wire from the remote sensor to the REMOTE IN jack on the back panel.

@@@@@@Connecting Speakers 1. For best performance, use high quality speaker cables. @@@@@@@@Amplifier may overheat. AC Power Plug the cord into a 230 VAC wall socket. Power indicator will light up to indicate power ON.

@@Avoid rolling excess wire with or near signal interconnects. @@@@@@@@When the unit is in operation, the indicator will turn blue. @@Note that the Power Indicator 1 next to the switch will turn blue when the unit is on. 3 Speaker 1 / 2 Selectors: Press to select speaker pair 1 or 2, or both, or neither (headphone output only). 4 Input Source Selector: Select desired input source for listening by press-ing the "Input Source" button repeatedly (on the left will select downwards, right upwards) until the display for the desired source is illuminated.

5 Record Source Selector: Select desired source for recording to device connected to the rear panel Tape and CDR Out sockets by pressing the "Record Source" button repeatedly until the display for the desired source is illuminated. 6 Source Direct: Press to bypass tone control circuitry. 7 Mode Button: Press this button to make changes to the bass, treble and balance settings. 8 Headphone Jack: Plug in headphones if desired. @@9 Volume Control: Turn to raise or lower output volume. @@! @@@@@@@@Important Notes: · To remote control a tuner, CD Recorder or CD Player, the appropriate input ("TUNER", "CDR" or "CD") must have been selected with the source buttons of the remote control (selecting on the front panel is not sufficient). · Note that DVD players or tape decks cannot be controlled by the remote. · To control a compatible CD Recorder "CDR" must be selected as input and the drive to be controlled (CDP or CDR) must be selected appropriately with the "CDP SELECT" or "CDR SELECT" buttons. Operating Conditions The control unit operates effectively within a distance of 7 meters and an angle of 30° from the amplifier. Using the control near fluorescent lights may shorten this range, as will any dust or dirt that accumulates on the front of the remote control or the remote sensor area of the amplifier.

Also avoid blocking the line of sight between amplifier and remote. The control unit is powered by two AA batteries, included with your amplifier. When you replace weak batteries, replace both at the same time. @@@@@@@@2. @@@@@@@@Press both to hear both speaker pairs at once. To listen to headphones only, press to turn off any active speaker pair. 3. Select desired source for listening by pressing the front panel Source up or down repeatedly until the name of the source is shown in the Main Information Display und terminal on amplifier. · Cable from record player is away from power cords and speaker cables. ·

Record player is not to close to speakers.

· Record player is on stable surface. · Cable from record player is connected to the Phono jacks. · The phono cartridge is MM, not MC. OPERATING / TROUBLESHOOTING 7 Specifications Continuous Average Power Per Channel (FTC) 20 Hz- 20 kHz, both channels driven Dynamic Power (IHF, 1 kHz Tone Burst) 8 Ohms: 4 Ohms: 8 Ohms: 4 Ohms: 2 Ohms: 1 Ohms: NOMINAL 80 Watts @ <0.



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09%THD 120 Watts@<0.

3%THD 115 Watts 200 Watts 295 Watts 380 Watts ± 80 Amps <10 Hz - 150 kHz 5 Hz - 150 kHz >125 Tuner/CD Phono (MM): Tuner/CD Phono (MM):
Tuner/CD Phono (MM): 95 dB 75 dB 270mV/43k Ohms 4.0mV/47k Ohms 6V 90 mV ± 6 dB/ ± 6 dB AC 230V, 50 Hz 410 W 439 x 110 x 395 mm 10.35 kg High
instantaneous current capability (HCC) Power Bandwidth @ Half-Rated output, 8 Frequency response @ 1W (+0/-3dB) Damping factor (20Hz-20k Hz)
Signal-to-noise Ratio (Reference rated power output, A-WTD) Input sensitivity/Impedance Overload: Tone control range, Bass @ 50 Hz/Treble @ 10 kHz
Power supply: Power consumption: Dimensions (Width x Height x Depth): Weight: 250 Crossways Park Drive, Woodbury, New York 11797
www.harmanardon.com Harman Consumer Group International: 2, Route de Tours, 72500 Château-du-Loir, France © 2005 Harman Kardon, Incorporated
Part 5100-971500-000.



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