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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVC-A1XV. You'll find the answers to all your questions on the DENON AVC-A1XV in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

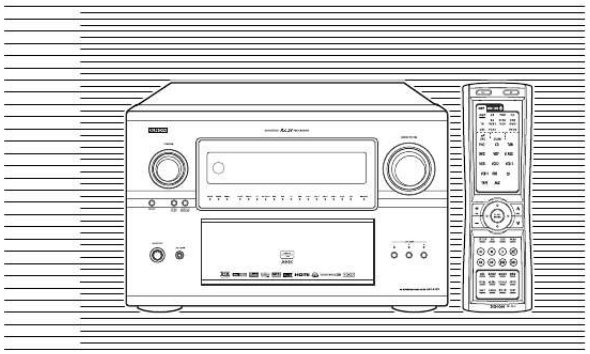
User manual DENON AVC-A1XV
User guide DENON AVC-A1XV
Operating instructions DENON AVC-A1XV
Instructions for use DENON AVC-A1XV
Instruction manual DENON AVC-A1XV

DENON

AV SURROUND AMPLIFIER

AVC-A1XV

OPERATING INSTRUCTIONS



■ We greatly appreciate your purchase of the AVC-A1XV.
■ To be sure you take maximum advantage of all the features the AVC-A1XV has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

"SERIAL NO. _____
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

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Manual abstract:

· Please be care the environmental aspects of battery disposal. · The apparatus shall not be exposed to dripping or splashing for use. · No objects filled with liquids, such as vases, shall be placed on the apparatus. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. ACHTUNG: · Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. · Auf dem Gerät sollten keinerlei direkten Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden.

· Bitte beachten Sie bei der Entsorgung der Batterien die geltenden Umweltbestimmungen. · Das Gerät sollte keinerlei Flüssigkeit, also keinem Tropfen oder Spritzen ausgesetzt werden. · Auf dem Gerät sollten keinerlei mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. ATTENTION: · La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. · Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. · Veillez à respecter l'environnement lorsque vous jetez les piles usagées. · L'appareil ne doit pas être exposé à l'eau ou à l'humidité.

· Aucun objet contenant du liquide, par exemple un vase, ne doit être placé sur l'appareil. · DECLARATION OF CONFORMITY We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive. PRECAUZIONI: · Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. · Non posizionare sull'apparecchiatura fiamme libere, come ad esempio le candele accese. · Prestare attenzione agli aspetti legati alla tutela dell'ambiente quando si smaltisce la batteria. · L'apparecchiatura non deve essere esposta a gocciolii o spruzzi. · Non posizionare sull'apparecchiatura nessun oggetto contenete liquidi, come ad esempio i vasi. · ÜBEREINSTIMMUNGSERKLÄRUNG Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 73/23/EEC, 89/336/EEC und 93/68/EEC.

· DECLARATION DE CONFORMITE Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 73/23/EEC, 89/336/EEC et 93/68/EEC. PRECAUCIÓN: · La ventilación no debe quedar obstruida por hacerse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. · No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas. · A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. · No se expondrá el aparato al goteo o salpicaduras cuando se utilice. · No se colocarán sobre el aparato objetos llenos de líquido, como jarros. · DICHIARAZIONE DI CONFORMITÀ Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. In conformità con le condizioni delle direttive 73/23/EEC, 89/336/EEC e 93/68/EEC. WAARSCHUWING: · De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz.

· Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. · Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet. · Stel het apparaat niet bloot aan druppels of spatten. · Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. · DECLARACIÓN DE CONFORMIDAD Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares: EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3.

Siguiendo las provisiones de las Directivas 73/23/EEC, 89/336/EEC y 93/68/EEC. · EENVORMIGHEIDSVERKLARING Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC. OBSERVERA: · Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv. · Inga blottade brandkällor, såsom tända ljus, bör placeras på apparaten.

· Tänk på miljöaspekterna när du bortskaffar batteri. · Apparaten får inte utsättas för vätska. · Inga objekt med vätskor, såsom vaser, får placeras på apparaten. · ÖVERENSSTÄMMELSESINTYG Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 73/23/EEC, 89/336/EEC och 93/68/EEC. 2 NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA · Avoid high temperatures.

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Allow for sufficient heat dispersion when installed on a rack. · Vermeiden Sie hohe Temperaturen. Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. · Eviter des températures élevées Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.

· Evitate di esporre l'unità a temperature alte. Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. · Evite altas temperaturas Permite la suficiente dispersión del calor cuando está instalado en la consola. · Vermijd hoge temperaturen. Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst. · Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. · Keep the set free from moisture, water, and dust. · Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. · Protéger l'appareil contre l'humidité, l'eau et lapoussière.
· Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. · Mantenga el equipo libre de humedad, agua y polvo. · Laat geen vochtigheid, water of stof in het apparaat binnendringen. · Utsätt inte apparaten för fukt, vatten och damm. · Do not let foreign objects in the set.
· Keine fremden Gegenstände in das Gerät kommen lassen. · Ne pas laisser des objets étrangers dans l'appareil. · E' importante che nessun oggetto è inserito all'interno dell'unità. · No deje objetos extraños dentro del equipo. · Laat geen vreemde voorwerpen in dit apparaat vallen.
· Se till att främmande föremål inte tränger in i apparaten. · Unplug the power cord when not using the set for long periods of time. · Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. · Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. · Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo. · Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. · Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. · Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid. · Do not let insecticides, benzene, and thinner come in contact with the set. · Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.

· Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. · Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi. · No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. · Laat geen insektenverdelgende middelen, benzine of verfverdunner met dit apparaat in kontakt komen. · Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. · Handle the power cord carefully. Hold the plug when unplugging the cord. · Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. · Manipuler le cordon d'alimentation avec précaution.
Tenir la prise lors du débranchement du cordon. · Manneggiate il filo di alimentazione con cura. Agite per la spina quando scollegate il cavo dalla presa. · Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía.
*· Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. · Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. * (For sets with ventilation holes) · Do not obstruct the ventilation holes.*
· Die Belüftungsöffnungen dürfen nicht verdeckt werden. · Ne pas obstruer les trous d'aération. · Non coprite i fori di ventilazione. · No obstruya los orificios de ventilación. · De ventilatieopeningen mogen niet worden beblokkeerd. · Täpp inte till ventilationsöppningarna. · Never disassemble or modify the set in any way. · Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern. · Ne jamais démonter ou modifier l'appareil d'une manière ou ..

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.....1 w r t y u 1 BEFORE USING Pay attention to the following before using this unit: · Moving the set To prevent short circuits or damaged wires in the connection cords, always unplug the power cord and disconnect the connection cords between all other audio components when moving the set.
· Before turning the power switch on Check once again that all connections are proper and that there are not problems with the connection cords. Always set the power switch to the standby position before connecting and disconnecting connection cords. · Store these instructions in a safe place. After reading, store these instructions along with the warranty in a safe place. · Note that the illustrations in these instructions may differ from the actual set for explanation purposes.
2 CAUTIONS ON INSTALLATION Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV. If this happens, take the following steps: · Install this unit as far as possible from the tuner or TV. · Set the antenna wires from the tuner or TV away from this unit's power cord and input/output connection cords. · Noise or disturbance tends to occur particularly when using indoor antennas or 300 /ohms feeder wires. We recommend using outdoor antennas and 75 /ohms coaxial cables.
Note: For heat dispersal, do not install this equipment in a confined space such as a book case or similar unit. Note Wall 6 3 CAUTIONS ON HANDLING · Switching the input function when input jacks are not connected A clicking noise may be produced if the input function is switched when nothing is connected to the input jacks. If this happens, either turn down the MASTER VOLUME control or connect components to the input jacks. · Muting of PRE OUT jacks and SPEAKER terminals The PRE OUT jacks and SPEAKER terminals include a muting circuit. Because of this, the output signals are greatly reduced for several seconds after the power switch is turned on or input function, surround mode or any other-set-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume. · Whenever the power switch is in the STANDBY state, the apparatus is still connected on AC line voltage.


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Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation. 4 FEATURES 1.

DENON Proprietary Digital Technology 1) NEW D.D.S.C.-Digital (Dynamic Discrete Surround Circuit) Powered by four high performance, high speed 32 bit floating point DSP processors, the AVC-A1XV represents the pinnacle of precision DSP processing technology. Unlike competitive units, DENON's discrete surround technology consists of selected individual processors and ancillary elements, working in harmony via proprietary DENON inter-IC digital communication technology. 2) DENON Link With select DENON DVD players that feature DENON Link digital outputs, encrypted digital multi-channel audio transfers to the AVC-A1XV directly, eliminating unnecessary digital-toanalog and subsequent analog-to-digital conversions for the highest possible signal transfer integrity. The DENON Link function supports up to ultra high resolution 192 kHz DVD-A digital datastreams, for maximum reproduced fidelity. 3) Latest AL24 DSP Processing DENON's acclaimed Advanced AL24 DSP processing improves the fidelity of high resolution stereo PCM sources such as CD and DVD (up to 192 kHz sampling frequencies), by sophisticated DSP processing algorithms that improve low level detail and enhance fidelity by upsampling and adaptive filtering techniques. Advanced AL24 provides increased dynamic range and spatial information; bring out all the nuances with optimum clarity and natural fidelity.

4) AL24 DSP Processing For All Channels For the AVC-A1XV, DENON's AL24 processing supports multichannel DVD-Audio for all channels, including the ZONE2 multichannel theater channels, for optimum fidelity and low level detail reproduction in both the MAIN ZONE as well as the second multi-channel ZONE2 system. 2. Latest Surround Decoding Technology 1) Dolby Digital Using advanced digital audio compression and decoding technologies, Dolby Digital provides up to 5.1 channels of wide bandwidth, wide dynamic range multi-channel high fidelity surround sound. Dolby Digital is the default digital multichannel audio delivery system for DVD and USA/Canada high definition television systems.

2) Dolby Pro Logic IIx Dolby Pro Logic IIx adds the ability to provide up to 7.1 channel reproduction from conventional stereo (2 channel) sources, including surround back reproduction with a 6.1 or 7.1 surround sound system. Pro Logic IIx has three modes: one for moviebased soundtracks; one for stereo music sources, and a game mode for game consoles with stereo (2 channel) audio outputs.

3) Dolby Headphone Developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia, Dolby Headphone decoding provides thrilling surround sound effects of your favorite movie and music sources when using conventional stereo headphones. 4) DTS (Digital Theater Systems) DTS provides up to 5.1 channels of wide-range, high fidelity surround sound from sources such as DTS-encoded CDs, DVDs with DTS soundtracks, and DVD-Audio discs that provide DTS soundtracks. 5) DTS-ES Extended Surround and DTS Neo:6 The AVC-A1XV also supports the DTS-ES 6.1 matrix and discrete encoded surround formats, and also features DTS Neo:6 stereo-to-surround decoding with both Music and Movie modes for superb surround sound from conventional stereo sources. 6) DTS 96/24 Decoding Digital Theater Systems 96/24 provides ultra high resolution 24 bit, 96 kHz sampling for optimum wide bandwidth fidelity and superb dynamic range. The AVC-A1XV is equipped to faithfully decode DTS 96/24 discs. 7) HDCD High Definition Compatible Digital Using sophisticated encoding and decoding technologies, the HDCD format provides improved fidelity and dynamic range from encoded Compact Discs (which number in the thousands of titles). The AVC-A1XV, via a standard digital audio connection from a CD player or DVD player, internally recognizes and decodes HDCD discs for optimum fidelity and widest dynamic range.

8) Home THX Ultra2 Certified Home THX is the unique collaboration between THX Ltd. and audio/video equipment manufacturers. THX Ultra2 certification is the highest performance level, and provides a rigorous set of performance standards along with proprietary surround sound post-processing technologies, all designed to maximize the surround soundtrack playback experience in the home theater. In addition, the AVC-A1XV is fully compatible with THX Surround EX, which provides extended surround sound via additional surround back channel reproduction, first employed on Star Wars Episode 1 The Phantom Menace, and featured on many major motion pictures since. As well, the AVC-A1XV's power amplifier section fully complies with the latest THX Ultra2 standards, and two new addition surround modes are also provided THX Ultra2 Cinema mode and THX Music mode. In addition, the AVC-A1XV also incorporates THX's new THX Games mode, for thrilling surround sound effects from two channel game box audio sources. 7 3. Movie & Music Surround For The Whole House The AVC-A1XV's versatile Multi Source functions let you select different audio and video sources for each room in your home. Different audio and video multi-channel sources can be enjoyed in the home theater (Main room), as well as a multi-channel audio and video source directed to a second room. Additional zones (3 and 4) can also receive video and stereo audio as well.

The AVCA1XV features Freely Assignable Ten Power Amp Channels, so that you can decide which power amp channels can be dedicated to the MAIN ZONE, the secondary zone (ZONE2) as well as to two additional zones (ZONE3 and ZONE4), as well as providing line level outputs to external power amplifiers. 1) ZONE2 Theater Capability With up to 9.1 system in the main home theater room, the AVC-A1XV provides for a second, fully 5.1 capable system in ZONE2, with component video and five amplifier channels as well, with video up-conversion if desired. 2) ZONE3 Independent Audio & Video The AVC-A1XV provides the ability for a third independent zone, with selectable audio and video sources.

3) ZONE4 Independent Audio ZONE4 is ideal for a room where you can enjoy a different stereo source, for background music listening. 4. Ten High Power Assignable Power Amplifiers 1) Featuring high current, THX-certified high power amplifier channels, the AVC-A1XV is equipped to drive high performance loudspeakers with unprecedented dynamic range and low impedance drive capability, with each of the ten amplifier channels rated at 170 W into 8 /ohms. Each channel can be freely assigned to the main home theater room, as well as assigned to additional zones for multi-channel or stereo or even monophonic distributed audio/video and audio-only functions. For example, you might choose to have seven amplifier channels dedicated to a full THX Surround EX & DTS Surround EX 7.

1 channel system in the main room, while still allowing a powered stereo function in the second zone, and a third monophonic background music function in another room.

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Or, you could have a principal 5.1 channel setup in the main home theater room, while having a secondary powered 5.1 system in the second zone. You could even have (with compatible biamplified-capable speakers) a true 5.1 bi-amped system in the main room, along with additional line-level-powered systems in up to three additional rooms. 5. Audiophile Audio Quality Throughout 1) Separated Pure Audio & Video Chassis Construction For optimum audio and video quality, the AVC-A1XV features dedicated and physically separated low and high level audio and video circuits to prevent degrading mutual interference. 2) Optimum Chassis Stability As the AVC-A1XV is equipped with a massive toroidal main power supply and additional secondary power supplies, centrally located within the chassis, a fifth chassis foot helps reduce the physical vibration that can cause mechanicallyinduced vibration-related distortions. 3) Multiple Separate Power Supply Topologies No less than six individual power transformers (one very large toroidal unit, and five additional lower voltage power transformer units) are provided, ensuring that each critical subsection draws power from its own dedicated supply, eliminating minute fluctuations that occur with single transformer-equipped competitive units.

4) Multiple Toroidal Sub-Windings The massive main toroidal power transformer (which powers the ten amplifier channels block) features dedicated subwindings and high current, ultra stable DC rectifiers and high rated smoothing/storage capacitors, with a tremendous 132,000 µF total storage capacity. 5) Pure Direct Mode According to the selected input source, the Pure Direct Mode provides the optimum decoding by switching off any and all unnecessary processing (video disable, tone bybass, and other unnecessary circuits). 6) Dual Surround Speaker Mode DENON was the first to introduce Dual Surround Mode Speaker Switching, where two different types (and positions) of surround speakers could be chosen according to the source material diffuse surround speakers located at the sides of the listening position for movie surround sound, and directional surround speakers located at the room's rear corners for music surround sound. The AVC-A1XV also adds the ability to have both powered (AVC-A1XV amplified) music and surround sound speaker systems, according to each individual home theater's setup circumstances. 7) Highest Quality Input & Output Terminals The AVC-A1XV audio and video input terminals are gold-plated, as are the ten speaker terminal pairs. 6. High Resolution Video Section 1) Component Video Switching In addition to composite and S-video switching, the AVC-A1XV provides no less than five sets of component video inputs via RCA-type coaxial connectors, as well as an additional sixth set of component video inputs via BNC connectors, as well as two sets of component video outputs (one for RCA-type coaxial, one for BNC connectors), with additional capability for component video output to ZONE2. These component video circuits are fully HD-compatible, with a flat response to 100 MHz, far above the 38 MHz requirement for true HD reproduction, ensuring crisp and clear HDTV picture quality. 2) Video Up And Down Conversion Function To eliminate video signal incompatibility, the AVC-A1XV is equipped with video up-conversion and down-conversion. Composite and S-video signals are internally up-converted to component video for the MAIN ZONE, and down-converted for 480i component video signals.
*ZONE2 features downconversion from S-video to composite video. 3) Progressive Scanning & Scaling Function Via high quality Faroudja DCDiTM (*1) processing, the AVCA1XV converts standard definition interlaced video to higher resolution progressive scanning format 480i interlace to 480p progressive. For non-copy-protected video signals, further upconversion to HD 1080i video is also provided, for highest visual quality with compatible HD video displays. 4) High Resolution 12 bit/216 MHz Video D/A Conversion Featuring Analog Devices ADV-7310 Noise Shaped Video (*2) digital-to-analog converters, the AVC-A1XV provides superior high resolution video output free from video noise and conversion artifacts. 5) Superior S-video Processing A 3-dimensional Y-C separation circuit provides artifact-free composite video to S-video up-conversion, and Time Base Correction for optimum color sharpness with composite video inputs (MAIN ZONE).*
7. Latest Digital A/V Input/Output Capability With Future Upgrade Ability 1) HDMI/DVI Switching High Definition Multi-media Interface provides digital audio and video signal transfer between source components, the AVCA1XV, and compatible video displays with HDMI digital interface. Digital Visual Interface provides similar digital input/output capability for digital video signals. The AVC-A1XV is equipped with three HDMI inputs and one DVI input, and one each HDMI and DVI outputs to compatible video displays. Each HDMI/DVI input feeds both HDMI and DVI outputs, for optimum compatibility with today's HDMI- and DVI-equipped video displays.
8 2) IEEE 1394 Compatability Two IEEE 1394 digital interface inputs are provided, allowing SACD DSD and DVD-Audio digital audio signal input capability with select DENON DVD players that feature IEEE 1394 digital output function, and feature DENON's D.A.S.S. (DENON Audio Synchronized System) function, which reduces data jitter for superior high resolution DSD and PCM reproduction. 3) Ethernet Function For full compatibility with external control systems, such as AMX and Crestron, the AVC-A1XV features Ethernet connectivity. 4) RS-232C Serial Input/Output Function For full compatibility with external control systems, such as AMX and Crestron, the AVC-A1XV features a RS-232C serial I/O port. A second RS-232C serial I/O port is provided on the front panel, for future software and system upgrade capability. 5) Future Surround Format Inputs & Outputs For possible future surround sound formats, the AVC-A1XV features up to ten channel audio inputs (nine main channels plus an additional low frequency effects channel), with high resolution A/D conversion on each input. A second set of 5.

1 analog inputs is also provided, for connection to surround sources such as SACD and/or DVD-Audio players. 8. Easy-To-Use Functions 1) Automatic Setup With Room Equalization Featuring the newest Audyssey MultEQ XT technology, the AVC-A1XV provides automatic room equalization with multiple measurement points for optimum response throughout the listening room. A high quality measuring microphone (DENON DMS-305) is provided. 2) Three User-Definable Easy Modes Three User Modes are provided, allowing you to store and recall your favorite surround modes with individual level memories at the touch of a button. 3) Digital Audio Delay Function For optimum picture and sound synchronization, the AVC-A1XV features an adjustable digital audio delay function, variable from 0 ~ 200 milli-seconds. 4) Adjustable Crossover Frequencies For the widest compatibility with various main speaker and subwoofer combinations, the AVC-A1XV is equipped with a choice of ten different crossover frequencies (40, 60, 80, 90, 100, 110, 120, 150, 200 and 250 Hz crossover points), individually adjustable for each of the main speaker systems.


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5) The AVC-A1XV provides dual subwoofer outputs, along with an additional subwoofer output dedicated for the Low Frequency Effects channel (MAIN ZONE). 6) Auto Surround Mode For each input source, a separate memory stores your preferred surround sound mode and other settings, eliminating the need to re-configure the surround mode parameters whenever you switch between input sources. 7) Assignable High Current Trigger Outputs Four different 12 Volt trigger outputs allow the automatic activation of externally controlled devices, such as motorized drop-down screens, motorized drapery, motorized screen masking systems and other trigger-activated systems.

Each port supports 12V/250mA trigger-activated functions, assignable by zone (MAIN ZONE, ZONE2, ZONE3, or ZONE4). 8) Assignable AC Outlet Assignable AC convenience outlet is provided, and it can be activated by choice of input source or surround sound mode by each zone, to activate specific external components as necessary. 9) Front Panel Convenience Inputs A set of front panel A/V inputs allows quick connection of A/V sources, such as a video camcorder or a game console. 10) Electro-Luminescent Membrane Touch-Panel Remote Control Featuring back-lit EL technology, the AVC-A1XV remote control displays a specific function key set for each selected component, and is pre-programmed with hundreds of remote control code sets and features learning capability as well. 11) Large Fluorescent Display For easy setup and system monitoring, the AVC-A1XV features a clearly readable FL display that provides extensive system status and setup monitoring.

*12) AC Input Detachable AC Cord. 13) Other Useful Functions Digital Audio Input to Analog Recording Output conversion Input Source Re-naming Function Audio Level Memories for each input Personal Memory Plus function stores surround mode, level memories, analog or digital input selection for each input Volume Level Limiter provides a user-definable pre-set volume level for multi-zone audio operation Power On Volume Level Memory provides a user-definable volume level that is activated every time the AVC-A1XV is powered up Setup Lock Function prevents mis-operation at start-up Personal Default Memory function *1: *2: "DCDiTM" is trademark of Faroodja, a division of Genesis Microchip Inc. "NSV" is a trademark of Analog Devices, Inc. 5 CONNECTIONS · Do not plug in the AC cord until all connections have been completed. · Be sure to connect the left and right channels properly (left with left, right with right).*

· Insert the plugs securely. Incomplete connections will result in the generation of noise. · Use the AC OUTLET for audio equipment only. Do not use them for hair driers, etc. · Note that binding pin plug cords together with AC cords or placing them near a power transformer will result in generating hum or other noise. · Noise or humming may be generated if a connected audio equipment is used independently without turning the power of this unit on. If this happens, turn on the power of the this unit. 9 Connecting Audio Components · When making connections, also refer to the operating instructions of the other components. CD player OUTPUT OUTPUT INPUT CD recorder or Tape deck B R DIGITAL AUDIO L R L R L R L R L R L Connecting a CD player Connect the CD player's analog output jacks (ANALOG OUTPUT) to this unit's CD jacks using pin plug cords. Connecting a tape deck Connections for recording: Connect the tape deck's recording input jacks (LINE IN or REC) to this unit's tape recording (OUT) jacks using pin plug cords.

Connections for playback: Connect the tape deck's playback output jacks (LINE OUT or PB) to this unit's tape playback (IN) jacks using pin plug cords. Connecting a turntable Connect the turntable's output cord to the AVCA1XV's PHONO jacks, the L (left) plug to the L jack, the R (right) plug to the right jack. Connecting the pre-out jacks Use these jacks if you wish to connect external power amplifier(s) to increase the power of the front, center, surround and surround back sound channels, or for connection to powered loudspeakers. When using only one surround back speaker, connect it to left channel. Ground wire NOTE: This unit cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer. Turntable (MM cartridge) AC outlets (wall) AC 230V, 50Hz AC cord (Supplied) If humming or other noise is generated when the ground wire is connected, disconnect the ground wire. R L R L L R L R Route the connection cords, etc., in such a way that they do not obstruct the ventilation holes. CD player or other component equipped with digital output jacks DIGITAL AUDIO MD recorder, CD recorder or other component equipped with digital input/output jacks B COAXIAL OPTICAL OUTPUT INPUT DENON Link terminal Use this terminal to connect a DENON DVD player for high quality digital multichannel sound.

(See page 18) OUTPUT OPTICAL Connecting the DIGITAL jacks Use these for connections to audio equipment with digital output. Only one type of connector needs to be used, you can decide which based on availability of coaxial and optical inputs. Refer to pages 57, 58 for instructions on setting this terminal. NOTES: · Use 75 /ohms cable pin cords for coaxial connections. · Use optical cables for optical connections, removing the cap before connecting. Connecting the AC OUTLET AC OUTLET · SWITCHED (total capacity 100 W) The power to the outlet is turned on and off in conjunction with the POWER switch on the main unit, and when the power is switched between on and standby from the remote control unit. No power is supplied from this outlet when this unit's power is at standby. Never connect equipment whose total capacity is above 100 W. NOTES: · Only use the AC OUTLET for audio equipment. Never use them for hair driers, TVs or other electrical appliances.

· The AC outlet can be set to turn on and off for the different functions. For details, see "Setting the AC Outlet Assign". (See page 104) 10 Connecting Video Components · To connect the video signal, connect using a 75 /ohms video signal cable cord. Using an improper cable can result in a drop in picture quality. · When making connections, also refer to the operating instructions of the other components. · The AVC-A1XV is equipped with a function for up and down converting video signals. (See page 13) The signal connected to the video signal terminal is output to the S-Video and component video monitor out terminals. But the REC OUT terminals have no conversion function, so when recording connect the appropriate video terminals. DVD player or video disc player (VDP), etc. AUDIO R OUT Connecting a DVD player or a video disc player (VDP) DVD · Connect the video disc player's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) DVD IN jack using a 75 /ohms video coaxial pin plug cord.

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· Connect the video disc player's analog audio output jacks (ANALOG AUDIO OUTPUT) to the AUDIO DVD IN jacks using pin plug cords. · VDP can be connected to the VDP jacks in the same way. L VIDEO OUT R L TV Monitor TV AUDIO R OUT L VIDEO OUT Connecting a TV tuner TV · Connect the TV's tuner's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) TV IN jack using a 75 /ohms video coaxial pin plug cord. · Connect the TV's tuner's audio output jacks (AUDIO OUTPUT) to the AUDIO TV IN jacks using pin plug cords. VIDEO IN R L DBS tuner B Connecting a monitor TV Connecting a DBS tuner DBS · Connect the DBS tuner's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) DBS IN jack using a 75 /ohms video coaxial pin plug cord. · Connect the DBS tuner's audio output jacks (AUDIO OUTPUT) to the AUDIO DBS IN jacks using pin plug cords. MONITOR OUT · Connect the TV's video input jack (VIDEO INPUT) to the VIDEO MONITOR OUT jack using a 75 /ohms video coaxial pin plug cord. AUDIO R OUT L VIDEO OUT R L L R L R L R R L R L R L R L Note on connecting the digital input jacks · Only audio signals are input to the digital input jacks. For details, see page 10. R L R L R L R L R OUT L R IN L AUDIO OUT IN VIDEO Video deck 1 OUT IN VIDEO Video deck 2 R OUT L R IN L AUDIO Connecting the video recorders · There are four sets of video deck (VCR) jacks, so four video decks can be connected for simultaneous recording or video copying.

Video input/output connections: · Connect the video deck's video output jack (VIDEO OUT) to the VIDEO (yellow) VCR-1 IN jack, and the video deck's video input jack (VIDEO IN) to the VIDEO (yellow) VCR-1 OUT jack using 75 /ohms video coaxial pin plug cords. Connecting the audio output jacks · Connect the video deck's audio output jacks (AUDIO OUT) to the AUDIO VCR-1 IN jacks, and the video deck's audio input jacks (AUDIO IN) to the AUDIO VCR-1 OUT jacks using pin plug cords. Connect other video decks to the VCR-2, VCR-3 or VCR-4 jacks in the same way. NOTE: · Connecting a LD (laser disc) player with a Dolby Digital RF Output. The AVC-A1XV does not have a DD RF demodulator function.

Therefore, you need to use a commercially available outboard DD RF demodulator and connect its digital output to one of the AVC-A1XV available digital inputs. Refer to the demodulator's owner's manual for further information. 11 Connecting video components equipped with S-Video jacks · When making connections, also refer to the operating instructions of the other components. · A note on the S-Video input jacks The input selectors for the S-Video inputs and Video inputs work in conjunction with each other. · The AVC-A1XV is equipped with a function for converting video signals.

(See page 13) The signal connected to the S-Video signal terminal is output to the composite video and component video monitor out terminals. But the REC OUT terminals have no conversion function, so when recording connect the S-Video terminals. DBS tuner B Monitor TV S-VIDEO OUT Connecting a DBS tuner · Connect the DBS tuner's S video output jack (S-VIDEO OUTPUT) to the S-VIDEO DBS IN jack using an S-Video connection cord. TV Connecting a TV S-VIDEO OUT Connecting a monitor TV MONITOR OUT · Connect the TV's or DBS tuner's S video input (S-VIDEO INPUT) to the S-VIDEO MONITOR OUT jack using a S jack connection cord. S-VIDEO IN · Connect the TV's S video output jack (S-VIDEO OUTPUT) to the S-VIDEO TV IN jack using an S jack connection cord. DVD player or video disc player (VDP) S-VIDEO OUT Connecting a DVD player or a video disc player (VDP) DVD · Connect the DVD player's S-Video output jack to the S-VIDEO DVD IN jack using a S-Video connection cord. · VDP can be connected to the VDP jacks in the same way. · It is also possible to connect a video disc player, DVD player, video camcorder, game machine, etc., to the V.AUX jacks.

Connect the components' audio inputs and outputs as described on page 10. Video deck 1 Video deck 2 OUT IN S-VIDEO OUT IN S-VIDEO NOTES: · The video signal ZONE2 MONITOR OUT (yellow), S-Video signal ZONE2 MONITOR OUT jack or component signal ZONE2 MONITOR OUT output switches together with the input function selected with the ZONE2 SELECT (See page 152). To use as the monitor output, set "SOURCE" as the ZONE2 input function. The on-screen display signals are output from the ZONE2 MONITOR OUT (See pages 147~149). · The video signal ZONE3 MONITOR OUT (yellow) or S-Video signal ZONE3 MONITOR OUT output switches together with the input function selected with the ZONE3/REC SELECT (See page 152). To use as the monitor output, set "SOURCE" as the ZONE3/REC SELECT input function. At this time, the on-screen display signals are not output from the ZONE3 MONITOR OUT (See page 150). Connecting the video decks · Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-1 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-1 OUT jack using S jack connection cords. · Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-2 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-2 OUT jack using S jack connection cords. Connect the third and fourth video deck to the VCR-3 and VCR-4 jacks in the same way.

12 Connecting video components equipped with Component Video (color difference) video jacks (Component - Y, PB, PR ; Y, CB, CR) · When making connections, also refer to the operating instructions of the other components. · The signals input to the component (color difference) video jacks are not output from the VIDEO output jack (yellow) or the S-Video output jack. · Some video sources with component video outputs are labeled Y, PB, PR, or Y, CB, CR, or Y, B-Y, R-Y. These terms all refer to component video color difference output. · The function assigned to the component video input can be changed at the system setup.

For details, see "Setting the Component In Assign". (See pages 66, 67) DVD player Connecting a DVD player DVD IN jacks · Connect the DVD player's component (color difference) video output jacks (COMPONENT VIDEO OUTPUT) to the COMPONENT DVD IN jack using 75 / ohms coaxial video pin-plug cords. · In the same way, another video source with component video outputs such as a DTV/DBS tuner, etc., can be connected to the TV/DBS component (color difference) video jacks. Monitor TV COMPONENT VIDEO OUT Y PB PR Connecting a monitor TV MONITOR OUT jack · Connect the TV's component (color difference) video input jacks (COMPONENT VIDEO INPUT) to the COMPONENT MONITOR OUT-2 jack using 75 /ohms coaxial video pin-plug cords.

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· Connect the TV's component (color difference) video input jacks (COMPONENT VIDEO INPUT) to the COMPONENT MONITOR OUT-1 jack using BNC connectors. · The COMPONENT MONITOR OUT-1 and the COMPONENT MONITOR OUT-2 can be used simultaneously. COMPONENT VIDEO IN Y PB PR · The component video input and/or output jacks may be labeled differently on some TVs, monitors or video components (Y, PB, PR; Y, CB, CR; Y, B-Y, RY). Check the owner's manuals for other components for further information. The Video Conversion Function The AVC-A1XV is equipped with a function for up and down converting video signals. Because of this, the AVC-A1XV's MONITOR OUT jack can be connected to the monitor (TV) with a set of cables offering a higher quality connection, regardless of how the player and the AVC-A1XV's video input jacks are connected. Generally speaking, connections using the component video jacks offer the highest quality playback, followed by connections using the S-Video jacks, then connections using the regular video jacks (yellow). Cautions on the ZONE2 video conversion function: There is no TBC (Time Base Collector) for ZONE2. When the component video terminals are used to connect the AVC-A1XV with a TV (or monitor, projector, etc.) and the video (yellow) or S video terminals are used to connect the AVC-A1XV with a VCR, depending on the combination of the TV and VCR the picture may flicker in the horizontal direction, be distorted, be out of sync or not display at all when playing video tapes.

If this happens, connect a commercially available video stabilizer, etc., with a TBC (time base corrector) function between the AVC-A1XV and the VCR, or if your VCR has a TBC function, turn it on. The flow of the video signals. (Component Video Jacks) (Component Video Jacks) (MONITOR OUT / ZONE2) (S-Video jack) (S-Video jack) (MONITOR OUT / ZONE2) (Video jack) (This unit's input jacks : only MAIN ZONE 480i/580i) (Video jack) (MONITOR OUT / ZONE2) This unit's output jacks 13 NOTES: · Video down conversion to the MAIN ZONE's monitor output is only possible when the component video input resolution is 480i (interlaced standard definition video NTSC format, for North America) or 576i (interlaced standard definition video PAL format, for Europe and other countries). · This video conversion function cannot be used with HDMI or DVI video signals. · To change the setting of the video conversion mode for the MAIN ZONE, see pages 67, 68. To change the setting of the video conversion mode for the ZONE2, see pages 88, 89. · It is not possible to down-convert from the ZONE2's component video signal to a S-Video or composite signal, so when not using the ZONE2's component monitor output connector, use an S-Video connection cord or composite connection cord to connect the AVC-A1XV with the player. Connecting equipment with HDMI (High-Definition Multimedia Interface) terminals · A simple 1-cable connection (using a commercially available cable) with a device having an HDMI (High-Definition Multimedia Interface) connector allows digital transfer of the digital images of DVD video and other sources, and the multi-channel sound of DVD audio and DVD video. · The HDMI and DVI-D monitor output connectors on the AVC-A1XV can only be used one at a time, not simultaneously.
· To provide audio output from AVC-A1XV's audio output connector, select "Amp" at the System Setup. · To provide audio output from the TV, select "TV" at the System Setup. For details, see "Setting the HDMI/DVI In Assign". (See pages 70, 71) DVD player HDMI OUT Connecting a DVD player HDMI IN terminals · Connect the DVD player's HDMI output terminals to the HDMI IN terminal using HDMI cable. Monitor equipped with HDMI input connectors Connecting a monitor TV HDMI cable (commercially available) HDMI IN (HDCP) HDMI MONITOR OUT terminal · Connect the TV's HDMI input terminals to the HDMI OUT terminal using HDMI cable.
NOTE: · The audio signals on the multi/stereo area of super audio CDs are not output. Use a compatible player to play DVD audio discs that are copyright protected by CPPM. HDMI cable (commercially available) · Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, the AVC-A1XV cannot be controlled by another device via the HDMI connector. · The audio signals from the HDMI connector (including the sampling frequency and bit length) may be limited by the equipment that is connected. · The on-screen display signals are not outputted from the HDMI MONITOR OUT.
Copyright Protection System To play back the digital video and audio of DVD video and DVD audio through an HDMI/DVI-D connection, both the connected player and monitor are required to support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System). HDCP is copy protection technology that comprises data encryption and authentication of the partner equipment. The AVC-A1XV supports HDCP. Please see the user's manual of your video display for more information about this. 14 Connecting equipment with DVI (Digital Visual Interface) terminals · Connection with equipment that has a DVI (Digital Visual Interface)-D connector permits the transfer of digital images. Make an audio connection also. · Commercially-available DVI cables are available in 24-pin and 29-pin types. The AVC-A1XV supports the 24-pin DVI-D cable. · The HDMI and DVI-D monitor output connectors on the AVC-A1XV can only be used one at a time, not simultaneously. · The on-screen display signals are not outputted from the DVI-D MONITOR OUT.

DVD player DVI-D OUT Connecting a DVD player DVI-D IN terminal · Connect the DVD player's DVI-D output terminals to the DVI-D IN terminal using DVI-D cable. DVI-D IN (HDCP) Monitor equipped with DVI-D input connectors Connecting a monitor TV 24P DVI-D cable (commercially available) DVI-D MONITOR OUT terminal · Connect the TV's DVI-D input terminal to the DVI-D MONITOR OUT terminal using DVI-D cable. 24P DVI-D cable (commercially available) Note on connecting a HDMI/DVI · The table below indicates the compatibility of connections between the HDMI/DVI-D output connector of the AVC-A1XV and monitors that support HDMI/DVI-D. Monitor with HDMI HDMI output terminal DVI-D output terminal C (Video / Audio) C (Only Video) Monitor with DVI-D (HDCP compatible) C (Only Video) C (Only Video) Monitor with DVI-D (HDCP incompatible) E E Copyright Protection System To play back the digital video and audio of DVD video and DVD audio through an HDMI/DVI-D connection, both the connected player and monitor are required to support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System).


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HDCP is copy protection technology that comprises data encryption and authentication of the partner equipment. The AVC-A1XV supports HDCP. Please see the user's manual of your video display for more information about this. 15 Connecting the external input (EXT. IN) jacks · AVC-A1XV is equipped with two analog external input terminals for 9.1 channels and 5.

1 channels. · These jacks are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD Audio player, or a multi-channel SACD player, or other future multi-channel sound format decoder. · When making connections, also refer to the operating instructions of the other components. L R R L R L R L R L Surround back Surround B Surround A Subwoofer Subwoofer Surround Center Decoder with 10-, 8- or 6-channel analog output Decoder with 6-channel analog output 16 Center Front Front For instructions on playback using the external input (EXT. IN) jacks, see page 123.

See pages 59, 60 for "Setting the EXT.IN Setup". Connecting the ZONE2 jacks 2 ZONE2 preout CONNECTIONS · If another power amplifier is connected, the ZONE2 preout (variable level) jacks can be used to play a different program source in ZONE2 the same time. (See page 147) · The ZONE2 video out is only use for the ZONE2. · The connection diagram below is an example of multi-channel playback in ZONE2.

Please see page 149 when you would like to have 2channel playback in ZONE2. CONTROL terminal These terminals are used for an exteral controller. Perform the following operation before using an external controller connected to the RS-232C terminal: 1. Press the ON/STANDBY button on the main unit and set the unit to the operating mode. 2. Perform the operation to turn off the power from the external control. 3. Check that the product has been set to the standby mode. After checking the above, check the connections of the external controller. Operation is possible.

TRIGGER OUT Turn the DC 12V voltage on and off for the individual functions and surround modes. For details, see "Setting the Trigger Out". (See pages 102, 103) Another room TV Power amplifier Extension jacks for future use. L R R L INFRARED SENSOR OUTPUT INPUT AUX OUT For instructions on operations using the MULTI ZONE jacks, see pages 146~160. See pages 150, 151 for the connection method of ZONE3 and ZONE4. INFRARED RETRANSMITTER Connecting a component with video and audio jacks to the V.AUX input jacks · To connect the video signal, connect using a 75 /ohms video signal cable cord. Connecting a Video game component · Connect the Video game component's output jacks to this unit's V. AUX INPUT jacks. Connecting a video camera component · Connect the video camera component's output jacks to this unit's V.

AUX INPUT jacks. Video game L R Video camera OUTPUT S-VIDEO OUT R L VIDEO OUT S-VIDEO OUT OUTPUT OPTICAL R L VIDEO OUT R L R L DIGITAL OUT LINE OUT VIDEO OUT S-VIDEO OUT LINE OUT VIDEO OUT S-VIDEO OUT 17 DENON LINK connections · High quality digital sound with reduced digital signal transfer loss can be enjoyed by connecting a separately sold DENON LINK compatible DVD Player. DVD player 2 Playback using the DENON LINK connector Digital transfer and multi-channel playback of DVD audio discs and other multi-channel sources is possible by connecting the AVC-A1XV to a DENON DVD player equipped with a DENON LINK connector using the connection cable included with the DVD player. 2 DENON LINK Setting When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK" with the System Setup Digital In Assignment. (See pages 57, 58) · When the input mode is AUTO and the signals are not be able to transferred by DENON LINK, the unit automatically changes over the input to the selected signals (ANALOG, EXT.

*IN or IEEE1394). 1 (Main unit) Assign DENON LINK to the input source. CH SEL ENTER q Select the input source. (Remote control unit) w Select "DLINK". CH SEL ENTER *Digital In DVD : DLINK (Main unit) (Remote control unit) 2 (Main unit) Select the input for the playback of signals that cannot be transferred by DENON LINK.*

*CH SEL ENTER q Select "DLINK" setting. (Remote control unit) w Select input signal (ANALOG, EXT.IN or IEEE1394). CH SEL ENTER *Digital In NoSig.: I1 (Main unit) (Remote control unit) 18 Connecting IEEE1394 devices · Use an S400-compatible 4-pin IEEE1394 cable to connect. · Video signals are not transferred with the AVC-A1XV's IEEE1394 interface, so when connecting a video device connect the video signals as well. · Assign the IEEE1394 input the input source. (See page 64) DVD player 2 IEEE1394 network q Up to 17 devices can be connected using daisy chain type connections. w Up to 63 devices can be connected using tree type connections. Do not loop the connections.*

e Select IEEE 1394 input. "LINK CHECK" will be displayed while the IEEE 1394 connection is being checked. r If the connection is looped, "LOOP CONNECT" is displayed. Check the connections and undo the loop. NOTE: · The AVC-A1XV will not operate when connected to equipment other than that conforming to "IEEE1394 AUDIO (A&M protocol)" standards or when connected to computer peripherals. Also please note that operation is not guaranteed even when connected to IEEE1394-compatible equipment. Whether or not data and control signals can be sent and received between interconnected IEEE1394-compatible equipment depends on the functions of the different equipment. Please read the operating instructions of the equipment to be connected. 19 Speaker system connections · Connect the speaker terminals with the speakers making sure that like polarities are matched (< with < , > with >). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.

· When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel. NOTE: NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks. Speaker Impedance · Speakers with an impedance from 6 to 16 /ohms can be connected. · The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected.

Connecting the speaker cords 1. Loosen by turning counterclockwise. 2. Insert the cord. Either tightly twist or terminate the core wires.

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